

IPC-T-50H CN

电子电路互连与封装 术语及定义

**Terms and Definitions for
Interconnecting and Packaging
Electronic Circuits**

**2008年7月
取代IPC-T-50G
2003年12月**

本标准由IPC开发

Association Connecting Electronics Industries



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Terms and Definitions for Interconnecting and Packaging Electronic Circuits

由IPC术语及定义委员会（2-30）开发，
由IPC TGAsia 2-30CN委员会翻译

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Acknowledgment

Any document involving a complex technology draws material from a vast number of sources. While the principal members of the Terms and Definitions Committee (2-30) are shown below, it is not possible to include all of those who assisted in the evolution of this standard. To each of them, the members of the IPC extend their gratitude. A special note of thanks goes to the 2-30CN Committee within IPC Task Group Asia (TGAsia) who reviewed and commented on the document for clarity with the Chinese translation of terms and definitions.

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电子电路互连与封装术语及定义

SCOPE

This document is designed to provide definitions for terms commonly used in the electronics industry which have meanings specific to electronics. The definitions are intended to provide sufficient clarity of detail such that a reader utilizing English as a second language could understand the subtleties of the meaning. Terms listed here are those which have a generic usage across multiple disciplines. Terms which have a specialized meaning or usage within a single IPC document should be defined within that document. Commonly used English language terms which do not change meaning when applied to electronics are not defined here.

Acronyms commonly used in electronics are defined in Appendix A. Classification Codes, the numbers following the terms, are listed in Appendix C and discussed in Appendix B.

Note: Changes made to this revision of the IPC-T-50 are indicated throughout by gray-shading of the term and definition.

范围

本文件提供了电子工业常用术语及其定义，这类术语对于电子而言具有其特定的含义。本文件所规定的定义充分详细地阐明了术语，以便以英语为第二语言的读者能够理解含义的细微之处。本文件所列出的术语是在多学科内都通用的术语。在IPC某一标准内具有专门含义或用法的术语应该在相应的标准内做出规定。本文件未列出当其应用于电子学时未改变含义的常用术语。

附录A中给出了电子学中常用的缩写词。附录C按分类编码即每一术语后的编号对术语进行了排序，附录B详述了分类编码规则。

IPC-T-50修订版即H版通过灰色阴影标示出了所有新增及修订的术语和定义。

A

AABUS (As Agreed Upon Between

User and Supplier)

26.2084

Indicates additional or alternate requirements to be decided between the user and the supplier in the procurement documentation. Examples include contractual requirements, modifications to purchase documentation and information on the drawing. Agreements can be used to define test methods, conditions, frequencies, categories or acceptance criteria within a test, if not already established.

AABUS (由供需双方协商确定)

26.2084

在采购文件中由供方和需方确定的附加或补充要求，例如包括合同要求、对采购文件的更改及图纸的信息，这些要求可以用来详细说明在测试中尚未建立的测试方法、测试条件、频率、类型或验收标准。

Abrasion Resistance

54.1821

The ability of a material to withstand surface wear.

耐磨性

54.1821

材料耐表面磨损的能力。

Abrasive Trimming

54.1318

Adjusting the value of a film component by notching it with a finely-adjusted stream of an abrasive material against the resistor surface.

磨削修整

54.1318

用精密调节的磨削材料射流对膜状元器件表面进行刻槽，以调整其参数值。

Absorption Coefficients

40.1727

The degree to which various materials absorb heat or radiant energy when compared to each other.

吸收系数

40.1727

比较不同材料吸收热能或辐射能的程度。

Absorptivity, Infra-red

40.0087

The ratio (or percentage) of the amount of energy absorbed by a substrate as compared with the total amount of incident energy.

红外吸光率

40.0087

基板所吸收光能量与总入射光能量的比率（或百分比）。

Accelerated Aging

93.0001

A test in which the parameters such as voltage and temperature are increased above normal operating values to obtain observable or measurable deterioration in a relatively short period of time.

加速老化

93.0001

将诸如电压或温度等参数增加到正常工作值之上，以在较短时间内获得可见或可测变质情况的测试。

Accelerated Life Test

93.0119

See "Accelerated Aging."

加速寿命测试	93.0119
见“加速老化， Accelerated Aging”。	
Accelerated Test	93.0216
A test to check the life expectancy of an electronic component or electronic assembly in a short period of time by applying physically severe condition(s) to the unit under test.	
加速测试	93.0216
将受测单元置于严酷物理条件下，在短时期内检查电子元器件或电子组件预期寿命的测试。	
Accelerator	53.0002
See “Catalyst.”	
加速剂	53.0002
见“催化剂， Catalyst”。	
Acceleration Factor (AF)	93.0260
The ratio of stress in reliability testing to the normal operating condition.	
加速因子 (AF)	93.0260
可靠性测试与正常工作条件下的应力之比。	
Acceptance Quality Level (AQL)	90.0003
The maximum number of defectives likely to exist within a population (lot) that can be considered to be contractually tolerable; normally associated with statistically derived sampling plans.	
验收质量水平 (AQL)	90.0003
一个总体（批）中可能存在且合同所允许的最多缺陷数，通常与统计抽样方案有关。	
Acceptance Tests	92.0004
Those tests deemed necessary to determine the acceptability of a product and as agreed to by both purchaser and vendor.	
验收测试	92.0004
经采购方和供方同意，为确定产品可接受性所必需的测试。	
Acceptance Inspection (Criteria)	92.0288
An inspection that determines conformance of a product to design specifications as the basis for acceptance.	
验收检验（准则）	92.0288
确定产品与验收依据的设计规范一致性的检验。	

Access Hole	60.1319
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A series of holes in successive layers of a multilayer board, each set having their centers on the same axis. These holes provide access to the surface of the land on one of the layers of the board. (See Figure A-1.)

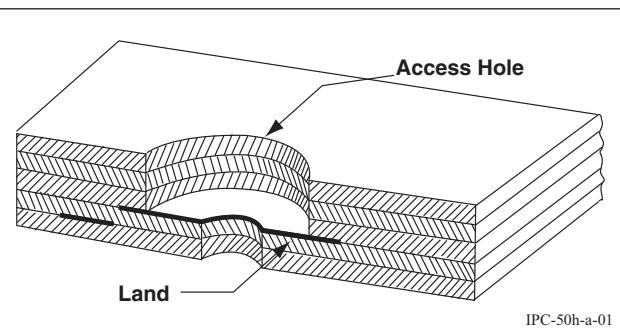
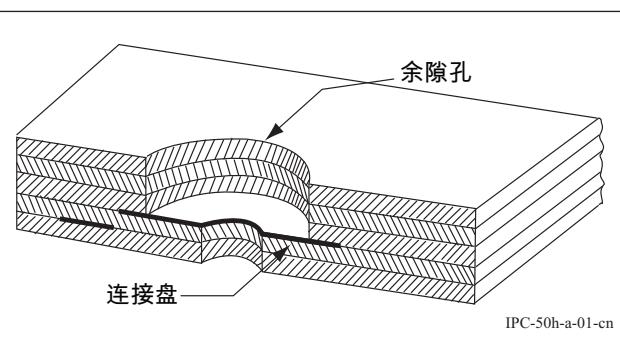


Figure A-1 Access Hole

余隙孔	60.1319
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多层板逐连层中一系列孔，孔的中心在同一轴线上，这些孔为进入印制板某一层连接盘的表面提供了通道。(见图A-1。)



图A-1 余隙孔

Access Protocol	21.0005
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An agreed principle for establishing how nodes in a network communicate electronically.

访问协议	21.0005
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建立网络结点如何实现电子通讯的约定规则。

Accordion Contact	36.0006
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A type of connector contact that consists of a flat spring formed into a “Z” shape in order to permit high deflection without overstress.

折叠式接触件	36.0006
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为允许高挠曲而无过度应力，由扁平弹簧折成Z字形所构成的连接器接触件。

Accuracy	90.0007
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The deviation of the measured or observed value from the true value.

精度	90.0007	活性松香助焊剂	46.0012
测量值或观察值与真值间的偏差。		松香和少量的有机卤化物或有机酸活化剂的混合物。(又见“合成活性助焊剂, Synthetic Activated Flux”。)	
Acid Flux	46.0009	Activating	53.0013
A solution of an acid and an inorganic, organic, or water soluble organic flux. (See also “Inorganic Flux,” “Organic Flux,” and “Water Soluble Organic Flux.”)		A treatment that renders nonconductive material receptive to electroless deposition.	
酸性助焊剂	46.0009	活化	53.0013
一种酸和无机、有机或水溶性有机助焊剂的溶液。 (又见“无机助焊剂, Inorganic Flux”、“有机助焊剂, Organic Flux”和“水溶性有机助焊剂, Water Soluble Organic Flux”。)		使非导电材料易于接受化学沉积的处理方法。	
Acid Number	54.0010	Activating Layer	53.0014
The amount of potassium hydroxide in milligrams that is required to neutralize one gram of an acid medium.		A layer of material that renders a nonconductive material receptive to electroless deposition.	
酸值	54.0010	活化层	53.0014
中和1克酸液所需以毫克计的氢氧化钾的量。		使非导电材料易于接受化学沉积的材料层。	
Acid Value	54.1217	Activator	46.0015
See “Acid Number.”		A substance that improves the ability of a flux to remove surface oxides from the surfaces being joined.	
酸价	54.1217	活化剂	46.0015
见“酸值, Acid Number”。		提高焊剂从待焊接表面去除表面氧化物能力的物质。	
Acid-Core Solder	46.0008	Active Device	30.0016
Wire solder with a self-contained acid flux.		An electronic component that can change a signal or respond to the signal in a way that is dependent upon the nature of the signal and/or other controlling factors. (This includes diodes, transistors, amplifiers, thyristors, gates, ASIC's and other integrated circuits that are used for the rectification, amplification, switching, etc., of analog or digital circuits in either monolithic or hybrid form.)	
酸性芯焊料	46.0008	主动（有源）器件	30.0016
自身含有酸性助焊剂的焊料丝。		能够根据信号和/或其它控制因素的特性改变信号或对信号作出响应的电子元器件。(这类器件包括二极管、晶体管、放大器、半导体闸流管、门电路、ASIC和其他集成电路，用于整流、放大、开关等以单片电路或混合电路形式组成的模拟或数字电路。)	
Actinic Radiation	52.0011	Active Metal	36.0017
Light energy that reacts with a photosensitive material in order to produce an image.		A metal that has a very high electromotive force.	
有效光	52.0011	活泼金属	36.0017
与感光材料相互作用使生成影像的光能。		具有很高电动势的金属。	
Active Desiccant	30.0397	Active Trimming	54.1321
Desiccant that is either fresh (new) or has been baked according to the manufacturer's recommendations to renew desiccant to original specifications.		Adjusting the value of a film circuit element in order to obtain a specified functional output from the circuit while it is electrically activated.	
活性干燥剂	30.0397		
未用过的(新的)或者根据制造商的建议烘烤再生到原有规格的干燥剂。			
Activated Rosin Flux	46.0012		
A mixture of rosin and small amounts of organic-halide or organic-acid activators. (See also “Synthetic Activated Flux.”)			

带电修整	54.1321	粘接失效	96.0020
在通电状态下，调整一个膜电路要素的值，使电路获得规定的输出功能。			粘结连接的断裂，以至在粘接剂附着界面处呈现分离。
Actual Size	90.0018	Adhesion Layer	74.0021
The measured size.			The metal layer that adheres a barrier metal to a metal land on the surface of an integrated circuit.
实际尺寸	90.0018	粘接层	74.0021
测量得到的尺寸。			将隔离金属粘附至集成电路表面上的金属连接盘的金属层。
Additive Process	53.1322	Adhesion Promotion	53.0022
A process for obtaining conductive patterns by the selective deposition of conductive material on clad or unclad base material. (See also "Semi-Additive Process" and "Fully-Additive Process.")			The chemical process of preparing a surface to enhance its ability to be bonded to another surface or to accept an over-plate.
加成法工艺	53.1322	附着力增强	53.0022
在覆箔或未覆箔基材上，通过选择性沉积导电材料而获得导电图形的工艺。（又见“半加成法工艺，Semi-Additive Process”及“全加成法工艺，Fully-Additive Process”。）			为增强与其他表面的接合能力或接受外镀层能力的表面化学处理过程。
Add-On Component	30.0019	Adhesive Coated Substrate	41.0438
Discrete or integrated packaged or chip components that are attached to a film circuit in order to complete the circuit's function.			A base material upon which an adhesive coating is applied, for the purpose of retaining the conductive material (either additively applied or attached as foil for subtractive processing), that becomes part of a metal-clad dielectric.
外加元器件	30.0019	涂胶基板	41.0438
为了实现电路功能而附加在膜电路上的分立的或集成封装或片式元器件。			一种表面涂有粘胶层的基材，其粘胶层用于粘接导电材料（可用于加成法或覆以金属箔用于减成法），并成为覆金属箔绝缘层的一部分。
Adhesion (Pressure Sensitive Tape)	46.2038	Adhesive-Coated Catalyzed Laminate	41.1320
The bond produced by contact between pressure-sensitive adhesive and a surface.			A base material with a thin polymer coating, that contains a plating catalyst, that is subsequently treated in order to obtain a microporous surface.
附着力（压敏胶带）	46.2038	涂胶催化层压板	41.1320
压敏胶带与表面接触所产生的粘合。			涂覆了含有电镀催化剂薄聚合物涂层的基材，在其后续处理中可获得微孔结构的表面。
Adhesive	46.1728	Adhesive-Coated Uncatalyzed Laminate	41.1323
A substance such as glue or cement used to fasten objects together. In surface mounting, an epoxy adhesive is used to adhere SMDs to the substrate.			A base material with a thin polymer coating, that does not contain a plating catalyst, that is subsequently treated in order to obtain a microporous surface.
粘合剂	46.1728	涂胶非催化层压板	41.1323
用于将物体互相牢固连接的胶或接合剂等物质。在表面贴装中，环氧粘合剂用于将表面贴装元器件粘附到基板上。			一种涂覆了不含电镀催化剂薄聚合物涂层的基材，在其后续处理中可获得微孔结构的表面。
Adhesion Failure	96.0020	Adhesive Transfer (Pressure Sensitive Tape)	75.0558
The rupture of an adhesive bond such that the separation appears to be at the adhesive-adherend interface.			The transfer of adhesive from its normal position on the pressure sensitive tape to the surface to which the tape was attached, either during unwind or removal.

粘接剂转移（压敏胶带） 75.0558

当压敏胶带展开或从贴附表面移除时，粘接剂从正常位置转移到胶带粘附过的表面。

Adsorbed Contaminant 96.0023

A contaminant attracted to the surface of a material that is held captive in the form of a gas, vapor or condensate.

吸附污染物 96.0023

以气体、蒸汽或冷凝液的形式粘附在材料表面的污染物。

Advanced Statistical Method 91.0024

A statistical process analysis and control technique that is more sophisticated and less widely applicable than basic statistical methods.

高级统计方法 91.0024

较基本统计方法更为复杂及应用范围较小的统计过程分析及控制技术。

Aging 90.0025

The change of a property, e.g., solderability, with time. (See also "Accelerated Aging.")

老化 90.0025

随着时间的推移，而引起特性（例如可焊性）的变化。（又见“加速老化， Accelerated Aging”。）

Air Contamination 14.0026

See "Air Pollution."

空气污染 14.0026

见“空气污染， Air Pollution”。

Air Pollution 14.0027

Contamination of the atmosphere with substances that are toxic or otherwise harmful.

空气污染 14.0027

大气被有毒或其它有害物质污染。

Algorithm 11.0849

A set of procedures for the solution of a problem in a series of steps.

算法 11.0849

用一系列步骤解决问题的一组程序。

Alignment Mark 22.0030

A stylized pattern that is selectively positioned on a substrate material to assist in alignment. (See Figure A-2.)

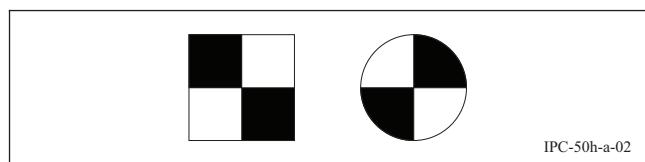
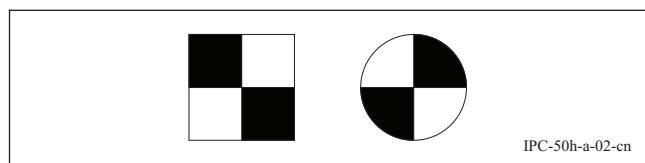


Figure A-2 Alignment Mark

对准标记 22.0030

为帮助对准定位，有选择地设置在基材上的特定图形。（见图A-2。）



图A-2 对准标记

Aliphatic Solvents 76.0031

"Straight chain" solvents, derived from petroleum, of low solvent power.

脂肪族溶剂 76.0031

从石油中提取的“直链”溶剂，溶解能力较低。

Alkaline Cleaner 76.0032

A material blended from alkali hydroxides and alkaline salts.

碱性清洗剂 76.0032

由碱性氢氧化物和碱性盐组成的混合物。

All Metal Package 33.0579

A hybrid circuit package made solely of metal, without glass or ceramic.

全金属封装 33.0579

不用玻璃及陶瓷，只用金属制成的混合电路封装。

Allowable Temperature 75.0609

The temperature range that an electronic circuit or component can perform its intended functions.

允许温度 75.0609

电子电路或元器件能实现其预期功能的温度范围。

Alloy, Tin Bismuth (Sn-Bi) 45.1947

An alloy that is used as a lead free solder and consisting of tin and bismuth as the main constituents. Sn-Bi58 has a low melting point of 138 °C [280 °F], but is not widely used because of its brittle properties.

锡铋合金 (Sn-Bi) 45.1947

以锡及铋为主要成分的无铅焊料的合金，锡铋58具有138 °C[280 °F]的低熔点，但由于其脆性而未被广泛应用。

Alloy, Tin Copper (Sn-Cu)	45.1948	Alpha Error	91.0033
An alloy that is used as a lead free solder consisting of tin and copper considered to be applicable for wave or reflow soldering.		The size of a Type I error or the probability of rejecting a hypothesis that is true.	
锡铜合金 (Sn-Cu)	45.1948	α 错误	91.0033
由锡及铜组成的无铅焊料合金，主要可应用于波峰焊或再流焊。		第一种类型错误，以原假设为真而被拒绝的概率。	
Alloy, Tin Silver (Sn-Ag)	45.1949	Alphanumerical	25.1729
An alloy that is used as a lead free solder and consisting of tin and silver as the main constituents used as a high temperature solder.		Pertaining to data that contain the letters of an alphabet, the decimal digits, and may contain control characters, special characters and the space character.	
锡银合金 (Sn-Ag)	45.1949	字母数字	25.1729
由锡及银组成的无铅焊料合金，主要用作高温焊料。		包含字母、十进制数字的数据，也可以包括控制符、特殊字符及空格符。	
Alloy, Tin Silver Bismuth (Sn-Ag-Bi)	45.1950	Alpha Particle	35.0612
An alloy that is used as a lead free solder and consisting of tin, silver and bismuth as the main constituents. The Bi in Sn-Ag-Bi alloy reduces the melting temperature. The higher the Bi content, the higher the mechanical strength, but with poorer elongation capability. There is a limit to Bi content.		A He^4 nucleus generated from a nuclear decay that is capable of generating hole-electron pairs in microelectronic devices and switching cells causing soft errors in some devices.	
锡银铋合金 (Sn-Ag-Bi)	45.1950	α 粒子	35.0612
以锡、银、铋为主要成分的无铅焊料合金。铋在锡银铋合金中可降低熔融温度。铋的含量越高，机械强度越高，但延展性越差。所以应限制铋的含量。		由原子核衰变产生的 He^4 原子核，能在微电子器件和开关器件中产生空穴电子对，导致软击穿故障。	
Alloy, Tin Silver Copper (Sn-Ag-Cu)	45.1951	Alternating Current (ac)	21.1793
An alloy that is used as a lead free solder consisting of tin, silver and copper as the main constituents.		A current that varies with time, commonly applied to a power source that switches polarity many times per second, in the shape of a sinusoidal, square, or triangular wave.	
锡银铜合金 (Sn-Ag-Cu)	45.1951	交流电 (ac)	21.1793
以锡、银、铜为主要成分的无铅焊料合金。		随时间而变的电流，通常用于电源每秒切换多次极性的正弦、方波或三角波。	
Alloy, Tin Zinc (Sn-Zn)	45.1952	Alternative Hypothesis	93.1324
An alloy that is used as a lead free solder and consisting of tin and zinc as the main constituents. Zn09 alloy has a melting point of 199 °C [390 °F], is closest to the melting point of Sn-Pb alloy among lead free solders, which allows soldering work at present soldering temperatures, but tends to form a stable oxide film, causing difficulty in securing a good solder wetting.		The supposition that a significant difference exists between the desired results of two comparable populations. (See also "Null Hypothesis" and "Statistical Hypothesis".)	
锡锌合金 (Sn-Zn)	45.1952	备择假设	93.1324
以锡、锌为主要成分的无铅焊料合金。在无铅焊料之中，锌09合金具有199 °C[390 °F]的熔点，与锡镁合金的熔点接近，可用现行的焊接温度进行焊接，但是易于形成稳定的氧化膜，难以形成良好的焊料润湿。		两个可比总体的期望结果之间存在显著差异的假设。(又见“原假设， Null Hypothesis”和“统计假设， Statistical Hypothesis”。)	
Alumina Substrate		Alumina Substrate	43.1730
		Aluminum oxide used as a ceramic substrate material.	
氧化铝基板		氧化铝基板	43.1730
		采用氧化铝制作的陶瓷基板。	
Ambient		Ambient	29.0034
		The surrounding environment coming into contact with the system or component in question.	

环境 29.0034
与所研究的系统或元器件相接触的周围环境。

Amorphous Polymer 40.0035
A polymer with a random and unstructured molecular configuration.

无定形聚合物 40.0035
分子结构为无规则的、非结构性的聚合物。

Amplitude, Voltage 21.0036
The magnitude of a voltage as measured with respect to a reference, such as a ground plane.

电压振幅 21.0036
相对于一个基准点例如接地层所测得的电压幅值。

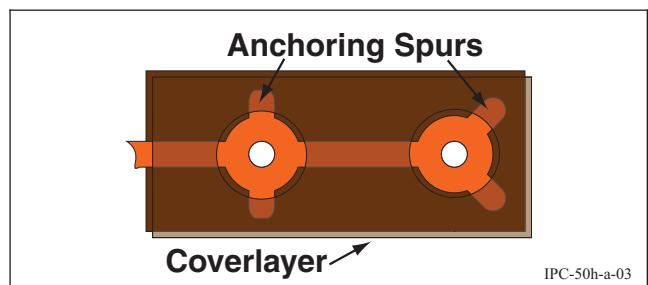
Analog Circuit 21.0037
An electrical circuit that provides a continuous relationship between its input and output.

模拟电路 21.0037
在输入与输出之间提供连续关系的电路。

Analysis of Variance (ANOVA) 91.0038
The systematic method of statistically evaluating experimental results in order to separate the sources of variation.

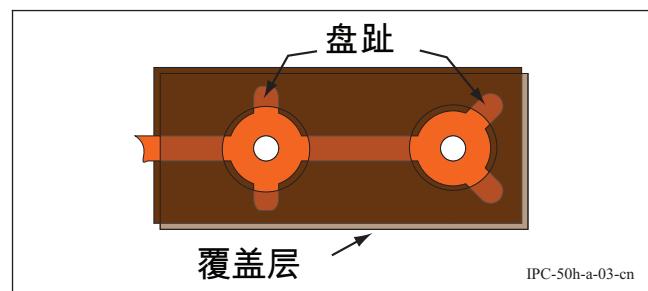
方差分析 (ANOVA) 91.0038
为分离变异源，统计评价试验结果的系统方法。

Anchoring Spur 22.1325
An extension of a land on a flexible printed board that extends beneath the coverlayer to assist in holding the land to the base material. (See Figure A-3.)



盘趾 22.1325
挠性印制板连接盘的一部分延伸至覆盖层下面，用以加固连接盘与基材的连接。(见图A-3。)

Angled Bond 74.0039
The impression of the first and second bonds that are not in a straight line.



图A-3 带盘趾的连接盘

角形键合 74.0039
第一个和第二个键合压痕不在一条直线上。

Anisotropic Conductive Contact 75.0675
An electrical connection using an anisotropic conductive film or paste wherein conductive particles of gold, silver, nickel, solder, etc. are dispersed. When it is compressed, an electrical connection is attained only in the direction of compression.

各向异性导电连接 75.0675
使用内含分散金、银、镍、焊料等导电粒子的各向异性导电膜或膏形成的电连接。当被压缩时，只在受压缩的方向获得电气连接。

Anisotropy 40.0685
The condition for a substance having differing values for properties, such as permittivity, depending on the direction within the material.

各向异性 40.0685
物质的性质（例如电容率）在不同方向上具有不同值的状况。

Annotation 22.0040
Text, notes, or other identification, constructed by a computer-aided system, intended to be inserted on a drawing, map or diagram.

注解 22.0040
由计算机辅助系统制作，用于在图纸、图谱或图表中插入的文字、注释或其它标识。

Annular Ring (Annular Width) 60.0041
That portion of conductive material completely surrounding a hole. (See Figure A-4.)

孔环 (环宽) 60.0041
完全环绕孔的导电材料部分。(见图A-4。)

Anode (BGA) 33.0689
The electrode from which the forward current flows within the device.

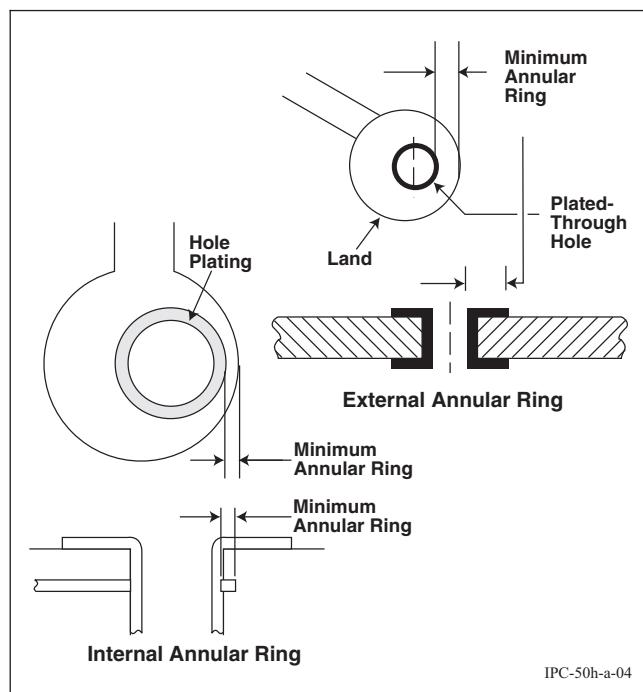
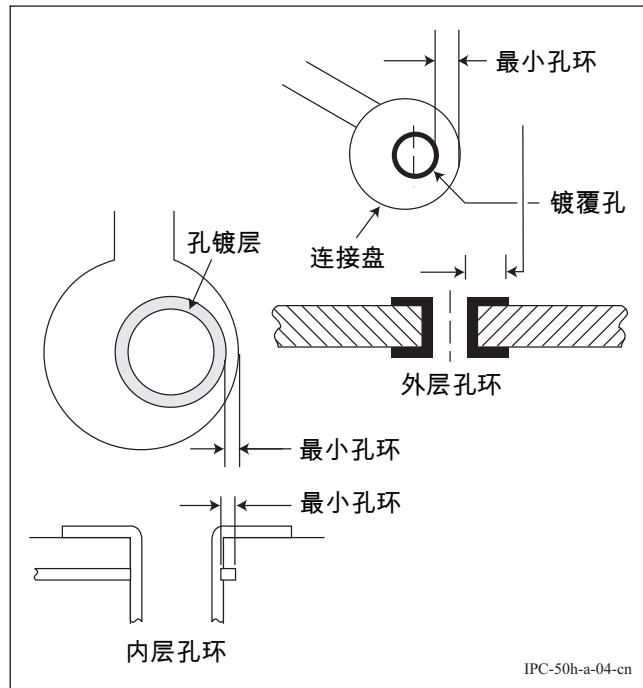


Figure A-4 Annular Ring (Annular Width)



图A-4 孔环 (环宽)

阳极 (BGA) 33.0689

器件中的正向电流流出的电极。

Anodic Cleaning 57.0042

Electrolytic cleaning in which the work is the anode.

阳极清洗 57.0042

工件为阳极的电解清洗。

Antipad

22.2173

An established clearance in the plane to accommodate a hole and its corresponding pad stack.

反盘

22.2173

为层上的某个孔所建立的与盘栈尺寸相一致的隔离区。

Aperture (Stencil)

73.0690

An opening in the stencil-foil.

开孔 (模板)

73.0690

在模板上开的孔。

Apparent Field-of-View Angle

92.0043

The angular subtense of the field-of-view in the image space of an optical system.

视角

92.0043

光学系统的成像空间内视场的张角。

Application Specific Integrated Circuit (ASIC)

33.0692

A semiconductor device intended to satisfy a unique complete circuit function.

专用集成电路 (ASIC)

33.0692

用于满足特殊完整电路功能的半导体器件。

Aqueous Flux

46.0044

See "Water Soluble Organic Flux."

水性助焊剂

46.0044

见“水溶性有机助焊剂，Water Soluble Organic Flux”。

Aramid

44.0045

See "Para-aramid."

芳酰胺

44.0045

见“对芳酰胺，Para-aramid”。

Arc Resistance

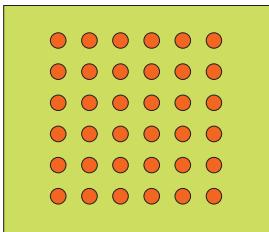
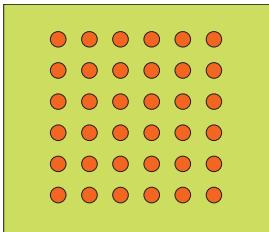
92.0047

The resistance of a material to the effects of a high voltage, low current arc (under prescribed conditions) passing across the surface of the material. (The resistance is stated as a measure of total elapsed time at that voltage required to form a conductive path on the surface - material carbonized by the arc.)

耐电弧性

92.0047

材料对通过其表面的高压低电流电弧（在规定条件下）所产生影响的耐受性。（耐受性用在规定电压下，电弧将导体表面材料炭化形成导电通路的总耗时来表示。）

Architecture	11.0046	Array	22.0049
The structure of a computer's functional elements that makes it possess specific maximum and minimum capabilities.		A group of elements or circuits arranged in rows and columns on a base material.	
体系结构	11.0046	阵列	22.0049
使计算机具有特定的最大和最小能力的功能单元结构。		在基材上成行及成列布置的一组单元或电路。	
Area Array	34.0751	Artificial Intelligence	11.0050
A bonding pattern in which edge and additional pads on the inner surface area of the chip are addressed in the bonding scheme. (See Figure A-5.)		The capacity of a machine to perform functions that are normally associated with human intelligence, such as reasoning and learning.	
 IPC-50h-a-05		人工智能 机器执行通常与人类智能有关的功能（例如推理及学习）的能力。	11.0050
面阵列	34.0751	Artwork	22.0051
芯片内表面区的边缘及附加焊盘用于键接线路的键接图形。(见图A-5。)		An accurately-scaled configuration that is used to produce the "Artwork Master" or "Production Master." (See Figure A-6.)	
 IPC-50h-a-05-cn		照相底图 用于生成照相原版及生产底版的比例准确的图形。(见图A-6。)	22.0051
图A-5 面阵列		Artwork Master	24.0052
Area Array Tape Automated Bonding	74.0048	An accurately-scaled, usually 1:1, pattern that is used to produce the "Production Master." (See Figure A-6.)	
Tape Automated Bonding where some carrier tape terminations are made to lands within the perimeter of the die.		照相原版	24.0052
面阵列载带自动键合	74.0048	比例准确，通常为1:1的图形，用于生成生产底版。(见图A-6。)	
部分载带终端与芯片周边内连接盘进行连接的载带自动键合。		As-Fired	45.0054
Area Ratio	73.0758	The condition (values) of thick-film components or the smoothness of ceramic base materials, after they have been processed in a firing furnace and prior to trimming or polishing.	
The ratio of the area of aperture opening to the area of aperture walls.		烧结态	45.0054
面积比	73.0758	在烧结炉中经加工处理后和修整或抛光前厚膜元器件的状态(值)或陶瓷基材的光滑度。	
开孔面积与孔壁面积之比。		Aspect Ratio (Film)	74.0055
		The ratio of the length of a film component to its width.	
Aspect Ratio (Hole)		长宽比 (膜元器件)	74.0055
		膜元器件的长度与宽度之比。	
		Aspect Ratio (Hole)	53.0056
		The ratio of the length or depth of a hole to its preplated diameter. (See Figure A-7.)	
厚径比 (孔)		厚径比 (孔)	53.0056
		孔的长度或深度与其电镀前孔径之比。(见图A-7。)	

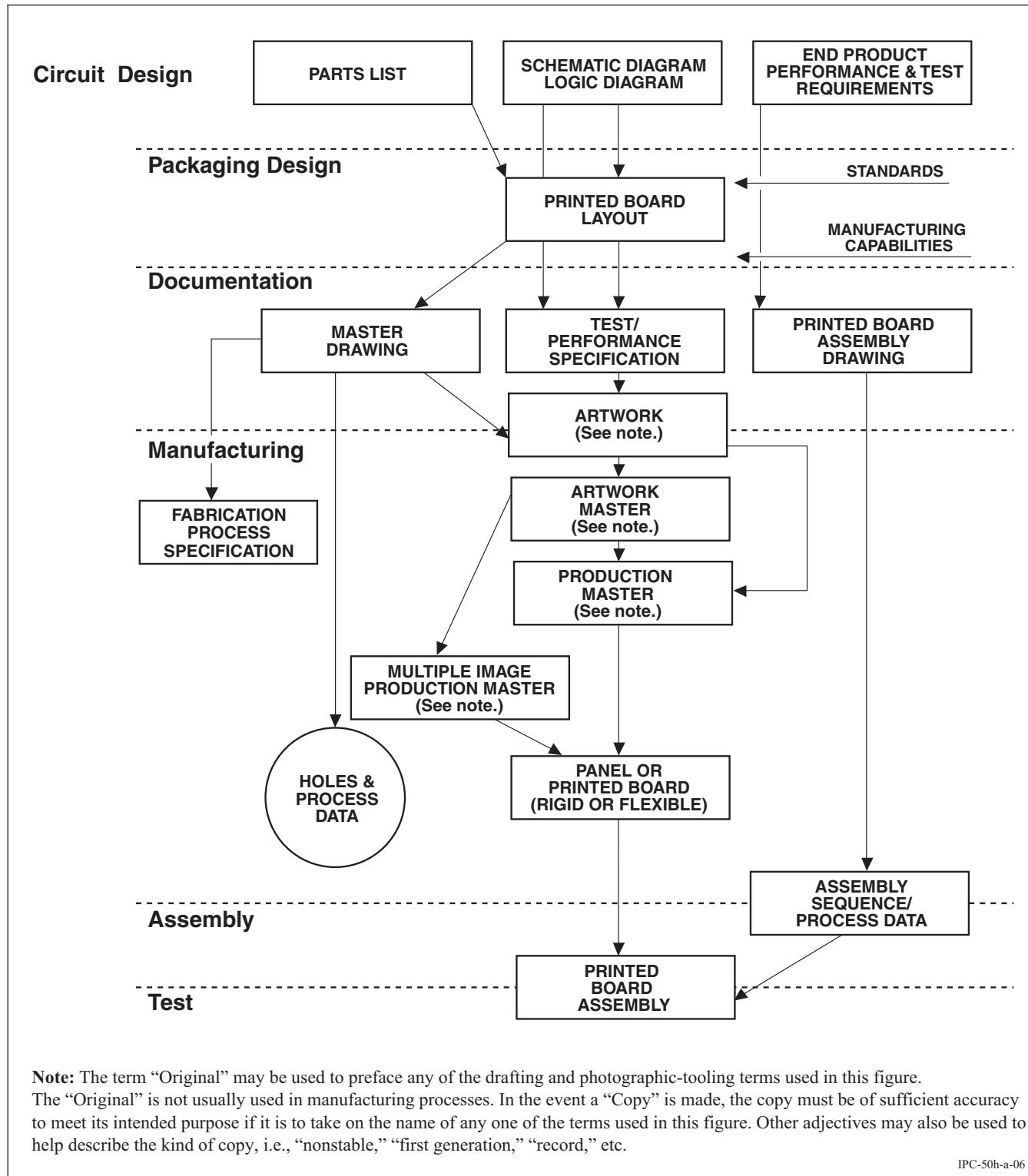
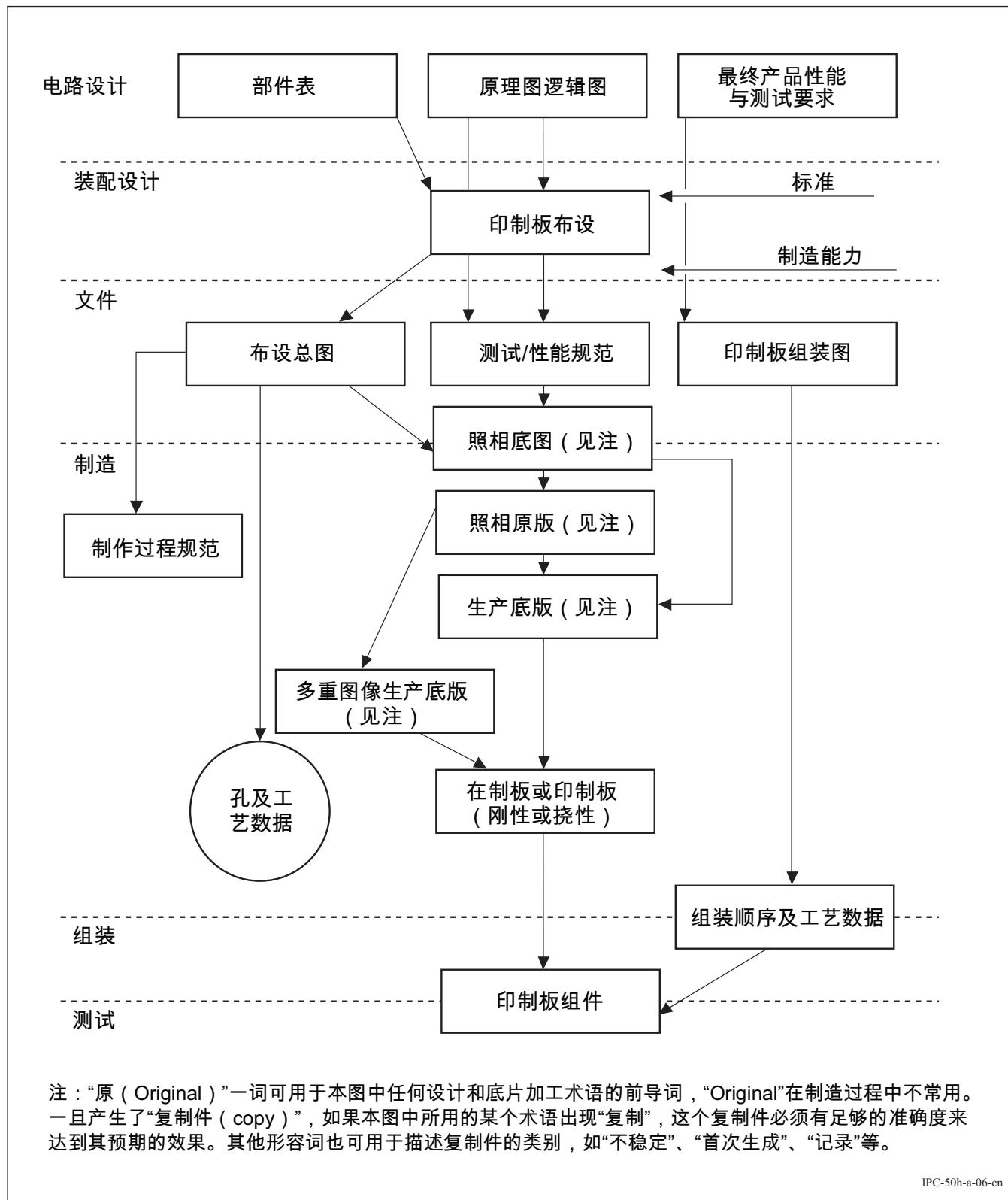


Figure A-6 Artwork (Simplified Flow Chart of Printed Board Design/Fabrication Sequence)



图A-6 印制板设计/制造流程简图

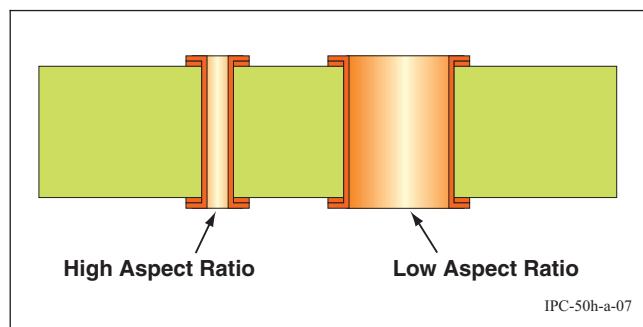
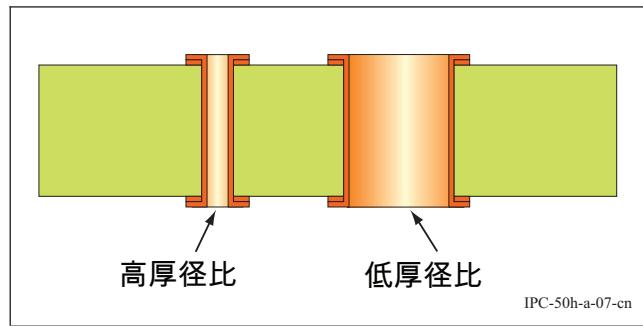


Figure A-7 Aspect Ratio (Hole)



图A-7 厚径比（孔）

Aspect Ratio (Stencil) 73.0808

The ratio of the width of the aperture to the thickness of the stencil-foil.

宽厚比（模板） 73.0808

模板开孔的宽度与模板厚度之比。

Assembled Board 80.0057

See "Assembly."

已组装板 80.0057

见“组件件， Assembly”。

Assembly 80.1327

A number of parts, subassemblies or combinations thereof joined together. (Note: This term can be used in conjunction with other terms listed herein, e.g., "Printed Board Assembly.")

组件 80.1327

若干部件、次级组件或其组合相互连接在一起。(注：本术语可与其他术语连用，例如：“印制板组件， Printed Board Assembly”。)

Assembly Drawing 26.1328

A document that depicts the physical relationship of two or more parts, a combination of parts and subordinate assemblies, or a group of assemblies required to form an assembly of a higher order.

组装图

26.1328

描述两个或更多部件、部件和次级组装部组合、或用于形成更高等级组件所要求的一组组件的物理关系的文件。

Assembly Language

11.0058

A computer language made up of brief expressions that an assembler program can translate into a machine language.

汇编语言

11.0058

能将汇编程序翻译成机器语言的简单表达式组成的计算机语言。

Assembly Manufacturer

70.1911

The individual, organization, or company responsible for the assembly process and verification operations necessary to ensure full compliance of assemblies.

组装制造商

70.1911

负责组装过程及必要的检验工作，以确保产品完全符合要求的个人、组织或公司。

Assignable Cause

91.0059

See "Special Cause."

可查明原因

91.0059

见“特殊原因， Special Cause”。

Asymmetric Stripline

21.0060

A stripline signal conductor that is embedded, but not centered, between two ground planes. (See Figure A-8.)

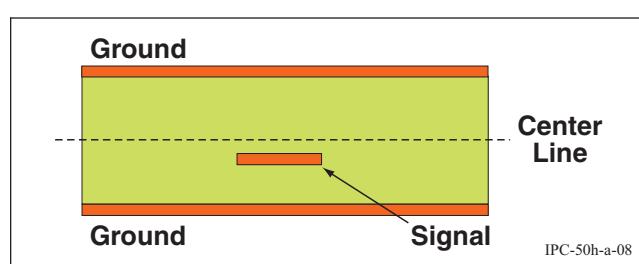


Figure A-8 Asymmetric Stripline

不对称带状线

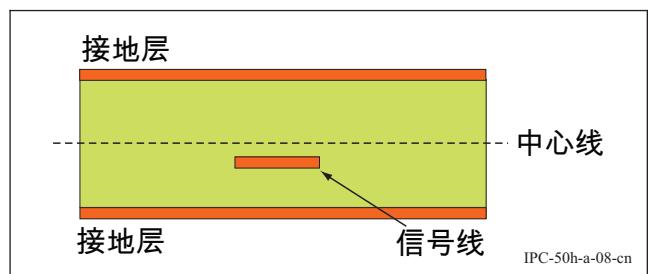
21.0060

埋于两个接地层间，但不在中心的带状信号导线。(见图A-8。)

Attachment Density

22.1823

The average number of surface mount or through-hole solder joints, based on pitch and land size, that may be accommodated in a prescribed unit area e.g., cm^2 , considering land size within the unit area to accommodate solder joint attachment.



图A-8 不对称带状线

组装密度 **22.1823**

基于节距和焊盘尺寸，在规定的单位面积例如每cm²内可容纳的表面贴装或通孔焊点的平均数量。

Attenuation **21.0061**

The reduction in the amplitude of a signal due to losses in the media through which it is transmitted. The unit of measure is decibels (dB).

衰减 **21.0061**

由于信号在传输介质中的损耗而造成信号幅度的减小。测量单位为分贝 (dB)。

Attributes Data **94.0062**

Qualitative data that can be counted for recording and analysis purposes.

属性数据 **94.0062**

为了记录及分析能计数的定性数据。

Automated Component Insertion **72.0063**

The act or operation of assembling discrete components to printed boards by means of electronically-controlled equipment.

自动元器件插装 **72.0063**

通过电子控制设备将分立元器件组装到印制板的动作或操作。

Automatic Component Placement **22.0029**

Software that automatically optimizes the layout of components on a printed board.

自动元器件布局 **22.0029**

自动优化印制板上元器件布局的软件。

Automatic Conductor Routing **22.0124**

Software that automatically determines the placement of interconnections on a printed board.

自动导体布线 **22.0124**

自动确定印制板上互连布设的软件。

Automatic Dimensioning

25.1329

A computer-aided drafting function that automatically generates dimensions, leaders, arrowheads, etc., that make up a complete set of documented dimensions.

自动尺寸标注

25.1329

自动生成尺寸值、引出线和箭头等，以得到完整的外形尺寸文件的计算机辅助绘图功能。

Automatic Test Equipment

92.0064

Equipment that automatically analyzes functional or static parameters in order to evaluate performance.

自动测试设备

92.0064

可自动分析功能或静态参数以评价性能的设备。

Automatic Test Generation

92.0065

Computer generation of a test program based solely on circuit topology with little or no manual programming effort.

测试自动生成

92.0065

基于电路捕获、网表或电路连接数据由计算机生成的，很少或没有人工编程参与，测试程序。

AWG Equivalent

92.0066

The American Wire Gauge (AWG) round-conductor number that is used to designate a flat conductor with an equal cross-sectional area.

等效AWG

92.0066

用于标示与扁平导线具有相同截面积的圆导线的美国线规线号。

Axial Lead

31.0067

Lead wire extending from a component or module body along its longitudinal axis. (See Figure A-9.)

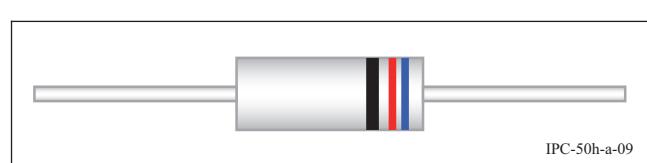
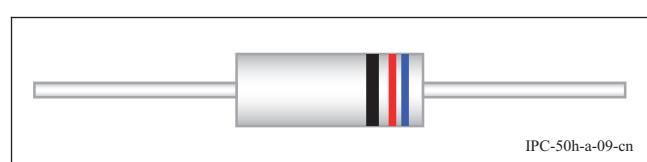


Figure A-9 Axial Lead

轴向引线

31.0067

沿元器件或模块体纵轴方向伸出的引线。(见图A-9。)



图A-9 轴向引线

Azeotrope 49.0068
See “Azeotropic Mixture.”

共沸物 49.0068
见“共沸混合物， Azeotropic Mixture”。

Azeotropic Mixture (Azeotrope) 49.1330
A liquid mixture of two or more substances that behaves like a single substance. The vapor produced by partial evaporation of the liquid has the same composition as the liquid.

共沸混合物（共沸物） 49.1330
两种或多种物质的混合液体，其性质类似于单一物质。该液体部分蒸发所生成的蒸汽具有与液体相同的组份。

B

B-Stage 41.1343
An intermediate stage in the reaction of a thermosetting resin in which the material softens when heated and swells, but does not entirely fuse or dissolve when it is in contact with certain liquids. (See also “C-Staged Resin.”)

B阶 41.1343
热固性树脂反应的中间阶段，在此阶段材料受热时软化和膨胀，但当与某种液体接触时并不完全融化或溶解。（又见“C阶树脂， C-Staged Resin”。）

B-Staged Material 41.0069
See “Prepreg.”

B阶材料 41.0069
见“预浸材料， Prepreg”。

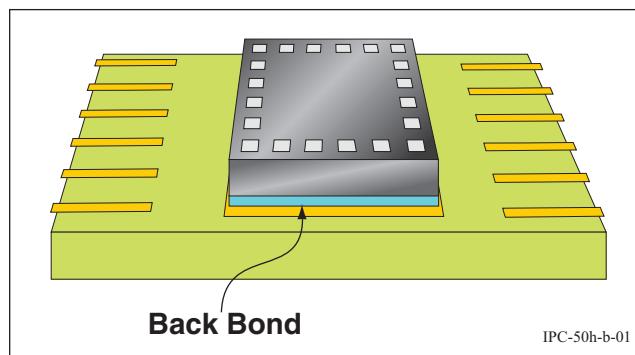
B-Staged Resin 41.0070
A thermosetting resin that is in an intermediate state of cure. (See also “C-Staged Resin.”)

B阶树脂 41.0070
处于固化中间态的热固性树脂。（又见“C阶树脂， C-Staged Resin”。）

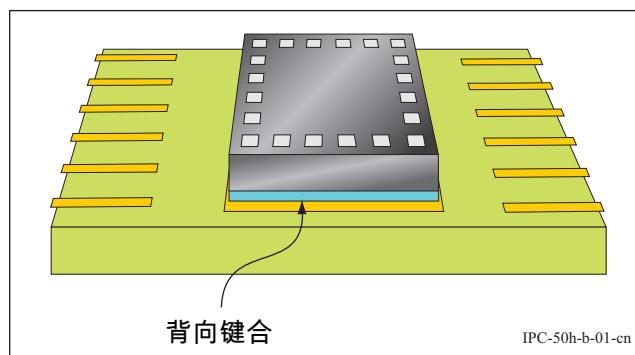
Back Annotation 21.0072
The process of extracting appropriate information from a completed printed board design and inserting it on the boards schematic diagram.

反向注解 21.0072
从完成的印制板设计中提取适当的信息并将其插入到印制板的原理图中的过程。

Back Bonding 74.0073
Attaching a die to a base material with its circuitry facing away from the base material. (See Figure B-1.)

**Figure B-1 Back Bonding**

背向键合 74.0073
将晶片与基材连接，使其线路面与基材相背。（见图B-1。）

**图B-1 背向键合**

Back Mounting 74.0079
See “Back Bonding.”

背向安装 74.0079
见“背面键合， Back Bonding”。

Back Taper(s) 51.0081
The constant decrease in diameter along the length of the body of a drill.

倒锥 51.0081
直径沿钻头长度方向的持续缩小。

Back-Bared Land 22.0071
A land in flexible printed wiring that has a portion of the side normally bonded to the base dielectric material exposed by a clearance hole. (See Figure B-2.)

背裸连接盘 22.0071
挠性印制线路中的连接盘，其与介质基材相粘接的一面有部分通过隔离孔暴露出来。（见图B-2。）



Figure B-2 Back-Bared Land



图B-2 背裸连接盘

Backdriving

92.0074

An in-circuit testing technique that drives digital circuitry outputs to a given logic level, by supplying pulses of sufficient electrical current magnitude in parallel with the outputs, in order to overdrive the logic state conditions of the next digital device inputs.

反向驱动

92.0074

一种在线测试技术，它由提供与输出平行的足够大小的电流脉冲，驱动数字电路输出至规定逻辑水平，以便加速进入下一个数字输入的逻辑状态条件。

Backfill

36.0075

Filling a hybrid circuit package with a dry inert gas prior to hermetic sealing.

回填

36.0075

密封前用干燥惰性气体填充混合电路。

Background (Artwork)

22.0076

The nonfunctional area of a phototool.

背景（照相底图）

22.0076

底版上的非功能性区域。

Background Variable

94.0077

A parameter of no experimental interest that is not held at a constant value.

背景变量

94.0077

不能被控制在定值的无试验意义的参数。

Backlighting

24.0078

Viewing or photographing by placing an object between a light source and the eye or recording medium.

背光

24.0078

将物体放置在光源与眼睛或记录装置间进行观察或拍照。

Backpanel

85.0080

See “Backplane.”

背板

85.0080

见“底板， Backplane”。

Backplane

85.1331

An interconnection device used to provide point-to-point electrical interconnections. (It is usually a printed board that has discrete wiring terminals on one side and connector receptacles on the other side.) (See also “Mother Board.”)

底板

85.1331

用于实现点到点电气互连的互连装置。(通常是一面带有分立布线端子，另一面带有连接器插座的印制板。) (又见“母板， Mother Board”。)

Backup Pin

70.0972

A supporting pin that is located under a printed board to prevent deflection of the board during component mounting.

支撑销

70.0972

位于印制板下防止板在元器件贴装过程中挠曲的支撑销钉。

Backward Crosstalk

21.1332

Noise induced into a quiet line, as seen at the end of the quiet line that is closest to the signal source, because the quiet line has been placed next to an active line. (See also “Forward Crosstalk.”)

反向串扰

21.1332

在离信号源最近的无噪音导线末端感应进入的噪声，因为它被放置在工作线路的后面。(又见“正向串扰， Forward Crosstalk”。)

Bake Out

56.0082

Subjecting a product to an elevated temperature in order to remove moisture and unwanted gasses prior to certain steps in the printed board manufacturing process or prior to final coating.

烘除

56.0082

在印制板制作工艺某一步骤或最终涂覆前，使产品经受高温以去除湿气及不需要的气体。

Balanced Transmission Line

21.1333

A transmission line that has distributed inductance, capacitance, resistance, and conductance elements that are equally distributed between its conductors.

平衡传输线

21.1333

在其导线之间均匀分布有电感、电容、电阻和电导元器件的一种传输线。

Ball	34.0976
-------------	----------------

A raised metal, (or other conductive material) feature on a package substrate used to facilitate bonding to the next level of interconnect.

焊球	34.0976
-----------	----------------

为便于与下一级互连连接而置于封装基板上的凸起金属（或其它导电材料）。

Ball Array	34.1086
-------------------	----------------

A group of balls arranged in rows and columns.

球阵列	34.1086
------------	----------------

成行及成列排列的一组焊球。

Ball Bond	74.0083
------------------	----------------

The welded connection of a bond wire to the bond pad of an integrated circuit die. The bond wire is melted to form a ball and the ball is bonded by use of thermocompression or thermosonic techniques.

球形键合	74.0083
-------------	----------------

键合引线至集成电路晶片上键合焊盘的焊接连接。键合引线融熔成为焊球，再应用热压焊及热超声焊技术键接焊球。

Ball Grid Array (BGA)	34.1096
------------------------------	----------------

A surface mount package wherein the bumps for terminations are formed in a grid on the bottom of a package. (See Figure B-3.)

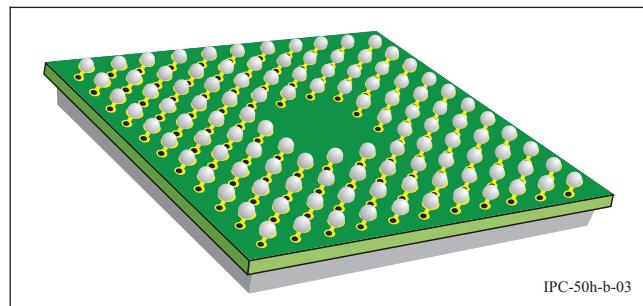


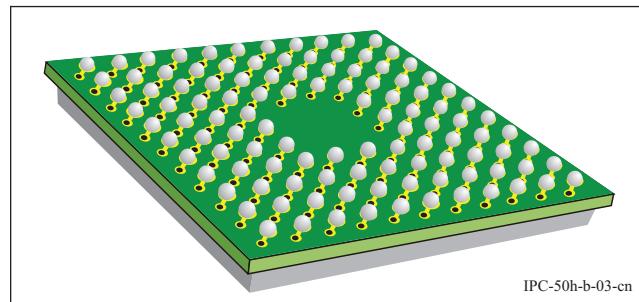
Figure B-3 Ball Grid Array (BGA)

球栅阵列 (BGA)	34.1096
-------------------	----------------

端子凸缘以栅格形式排列于封装底部的表面贴装封装。（见图B-3。）

Ball Lift	74.2127
------------------	----------------

A category of ball bond failure in which the ball lifts from the surface of the integrated circuit die bond pad metallization or lifts the metallization from the surface of the underlying oxide or silicon.



图B-3 球栅阵列 (BGA)

焊球起翘	74.2127
-------------	----------------

焊球键合失效的一种，焊球从集成电路晶片键合焊金属化层表面起翘或金属化层从氧化基层或硅片表面起翘。

Bar	70.1238
------------	----------------

The dark element of a bar code.

条	70.1238
----------	----------------

条码中的黑色单元。

Bar Code	70.1292
-----------------	----------------

A linear arrangement of bars and spaces in a predetermined pattern.

条码	70.1292
-----------	----------------

以预先确定的样式，呈直线型排列的条和空。

Bar Code Marking	70.1731
-------------------------	----------------

An identification code consisting of a pattern of vertical bars whose width and spacing identifies the item marked.

条码标识	70.1731
-------------	----------------

由竖条图形组成的标识码，以其宽度和间隔识别所标识的项目。

Bar Code Printer	70.1353
-------------------------	----------------

A printer with the ability to print bar coded labels and forms.

条码打印机	70.1353
--------------	----------------

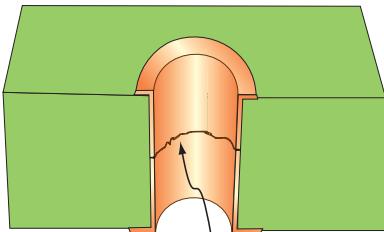
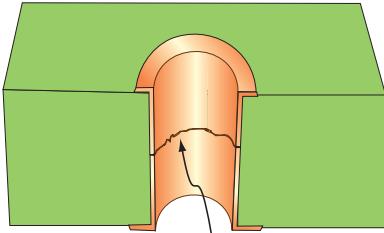
能打印条码标签和格式的打印机。

Bar Code Scanner/Reader	70.1354
--------------------------------	----------------

A device used for machine reading of a bar code. Readers may be hand held-wands, fixed optical beams, or moving optical beams.

条码扫描器/识别器	70.1354
------------------	----------------

用于机读条码的装置。识读器可以是手动扫描笔、固定光束或移动光束。

Bar Code Symbol	70.1370	Base Film (Flexible Circuits)	40.1471
A printed or photographically reproduced bar code composed of parallel bars and spaces of various widths. A bar code symbol contains a leading quiet zone, a start character, data characters, a stop character, and a trailing quiet zone. In some cases, a check character is included.		The film that is the base material for the flexible printed board and on the surface of which the conductive pattern can be formed. When the heat resistance is required, polyimide film is mostly used, and polyester film is usually used when the heat resistance is not required.	
条码符号	70.1370	基膜（挠性电路）	40.1471
由不同宽度的平行条和空组成的，可以通过打印或照相技术复制的条码。一个条码符号包括引导空白区、起始符、数据符、终止符和尾部空白区。有时，也包括校验符。		用于挠性线路板基材的膜，可在其表面形成导电图形。要求其耐热时，大多采用聚酰亚胺膜，聚酯膜则通常用于无耐热要求时。	
Bare Board	60.0084	Base Material	40.1334
An unassembled (unpopulated) printed board.		The insulating material upon which a conductive pattern may be formed. (The base material may be rigid or flexible, or both. It may be a dielectric or insulated metal sheet.)	
裸板	60.0084	基材	40.1334
未组装的（未装元器件的）印制板。		可在其上面形成导电图形的绝缘材料。（基材可以是刚性或挠性的，或者兼是。它可以是电介质或者是绝缘的金属板。）	
Barrel Crack	96.1444	Base Material Thickness	22.1604
A crack of the plated metal on the internal wall of a through-hole. (See also "Circumferential Crack.") (See Figure B-4.)		The thickness of the base material excluding conductive foil or material deposited on the surfaces.	
 <p>Barrel Crack</p> <p>IPC-50h-b-04</p>	<p>基材厚度</p> <p>不包括导电箔或表面上所沉积材料的基材厚度。</p>		
孔壁裂纹	96.1444	Base Metal	45.0088
通孔内壁上镀层金属的裂纹。（又见“环状裂纹，Circumferential Crack”。）（见图B-4。）		See "Basis Metal."	
 <p>孔壁裂纹</p> <p>IPC-50h-b-04-cn</p>	<p>基体金属</p> <p>见“金属基材， Basis Metal。”</p>		
Base Metal (Solder)	46.1491	Base Metal (焊料)	46.1491
The underlying metal surface to be wetted by solder, also referred to as basis metal.		被焊料润湿的下层金属表面，也称为金属基材。	
Base Plane	30.2011	Base Plane	30.2011
The plane that includes the lowest point of the mounting surface of the package, except for packages using stand-offs.		包括封装件贴装表面最低点的平面，采用托高的封装件除外。	
基底面	30.2011	Base Solderability	92.0089
包括封装件贴装表面最低点的平面，采用托高的封装件除外。		The ease with which a metal or metal alloy surface can be wetted by molten solder under minimum realistic conditions.	

B-4 孔壁裂纹**Barrier Metal** **74.0085**

A metal used to seal the semiconductor-die lands.

隔离金属 **74.0085**

用于密封半导体芯片连接盘的金属。

基本可焊性

92.0089

金属或金属合金在最小实现条件下能被熔融的焊料浸润的容易程度。

Baseline Dimensioning

26.0086

The maximum variation between two features that is equal to the sum of the tolerances on the two feature location dimensions taken from the same origin. (See Figure B-5.)

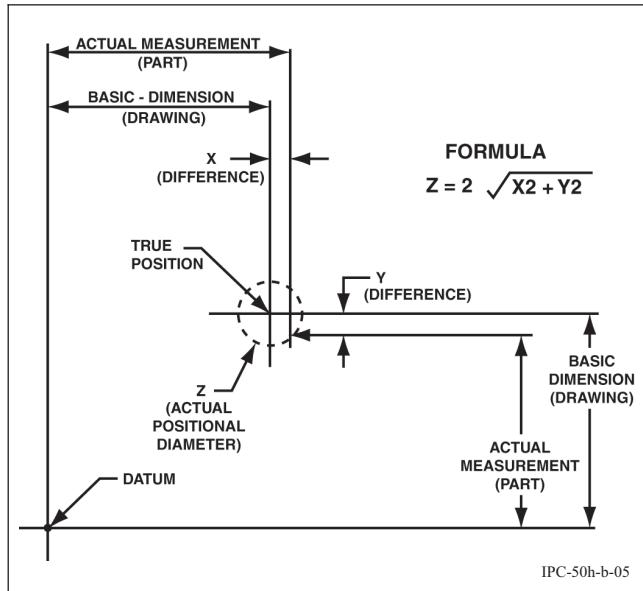
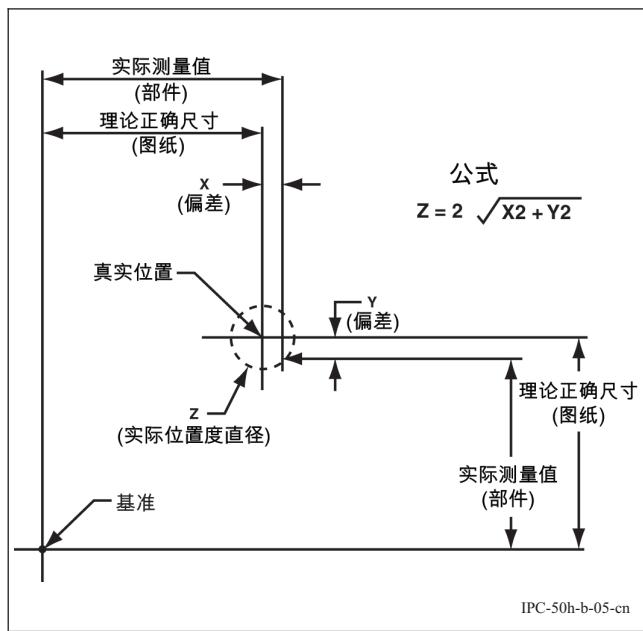


Figure B-5 Example of Feature Location using Baseline Dimensions

基线尺寸标注

26.0086

两个要素间的最大变化范围，等于相对于同一原点的两个位置尺寸的最大公差之和。(见图B-5。)



图B-5 使用基线尺寸的要素位置示例

Basic Dimension

26.1335

A numerical value used to describe the theoretical exact location of a feature or hole. (It is the basis from which permissible variations are established by tolerance on other dimensions in notes or by feature control symbols.)

理论正确尺寸

26.1335

用于描述一个要素或孔理论上正确位置的数值。(它是由其它尺寸上标注的公差或由特征控制符确定的允许偏差的基础。)

Basic Specification (BS)

26.1778

A document that describes the common elements for a set, family or group of products, materials, or services.

基础规范 (BS)

26.1778

描述一套、一族或一组产品、材料或服务的通用要素的文件。

Basic Statistical Method

91.1336

The application of a theory of variation through the use of basic problem-solving techniques and statistical process control. (This includes control and capability analysis for both variables and attributes data.)

基本统计方法

91.1336

使用基本问题解决方法和统计过程控制实施变异分析。(包括对变量数据和属性数据的控制能力和能力分析。)

Basic Wettability

70.0090

The ease with which a metal or metal alloy can be wetted by molten solder.

基本润湿性

70.0090

金属或金属合金能够被熔融的焊料润湿的容易程度。

Basis Material

40.0091

Material upon which coatings are deposited.

基体材料

40.0091

可在其上面沉积涂覆层的材料。

Basis Metal

45.0092

A metal upon which coatings are deposited.

金属基材

45.0092

可在其上面沉积涂覆层的金属。

Batch Oven

56.0093

A temperature-controlled oven used for drying, baking, curing, etc. where the material being processed is stationary.

成批烘炉	56.0093	Bead (Discrete Wiring)	64.1555
用于干燥、烘烤、固化等的温控炉, 炉中被处理的材料是静止的。		The external (surface) annular ring of copper plating around a plated-through hole on a fully additive circuit board which functions to conduct heat and promote solder wicking during the soldering of components.	
Batch Processing	11.0094	铜圈 (分立布线)	64.1555
Executing a computer-aided program without human input.		全加成电路板上环绕镀覆孔铜镀层的外层(表面)孔环, 其功能是在元器件焊接期间导热和促进焊料芯吸。	
批处理	11.0094	Beam Lead	33.0100
执行计算机辅助程序, 无需人工输入。		A component terminal in the form of a long metallic structural member that is not supported along its length.	
Batch Size	17.0095	梁式引线	33.0100
See "Lot Size."		一种元器件引出端子, 其形式是整个长度方向无支撑的长金属构件。	
批量	17.0095	Beaming	44.0099
见“批量, Lot Size”。		The operation in which yarn from several section beams is combined on the final warp beam.	
Bathtub Curve	93.0096	并轴	44.0099
A plot of failures versus time. (See Figure B-6.)		将很多束成段的纱线结合成最终成卷线束的操作。	

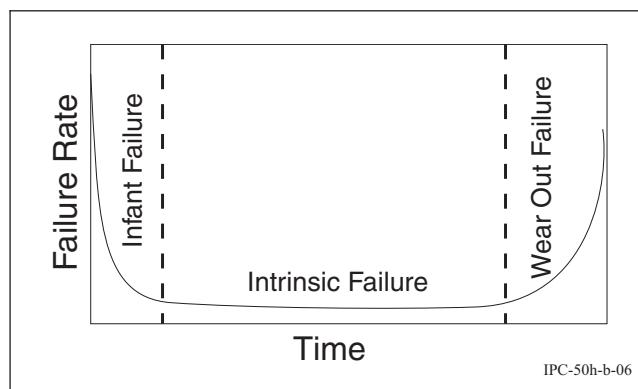
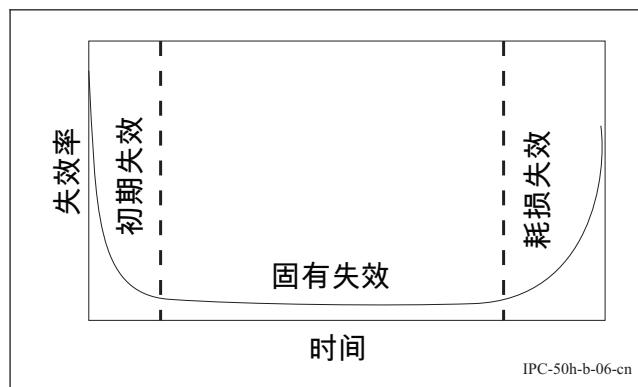


Figure B-6 Bathtub Curve

浴盆曲线	93.0096
失效与时间关系的曲线图。(见图B-6。)	



图B-6 浴盆曲线

Baume	92.0097
An arbitrary scale of specific gravities used in the gradation of hydrometers.	
波美度	92.0097
用于液体比重计分度的一种比重刻度。	

Bead (Discrete Wiring)	64.1555
The external (surface) annular ring of copper plating around a plated-through hole on a fully additive circuit board which functions to conduct heat and promote solder wicking during the soldering of components.	
铜圈 (分立布线)	64.1555
全加成电路板上环绕镀覆孔铜镀层的外层(表面)孔环, 其功能是在元器件焊接期间导热和促进焊料芯吸。	
Beam Lead	33.0100
A component terminal in the form of a long metallic structural member that is not supported along its length.	
梁式引线	33.0100
一种元器件引出端子, 其形式是整个长度方向无支撑的长金属构件。	
Beaming	44.0099
The operation in which yarn from several section beams is combined on the final warp beam.	
并轴	44.0099
将很多束成段的纱线结合成最终成卷线束的操作。	
Beam-Lead Device	33.0098
An active or passive chip component with beam leads for interconnecting it to lands on a base material. (See Figure B-7.)	

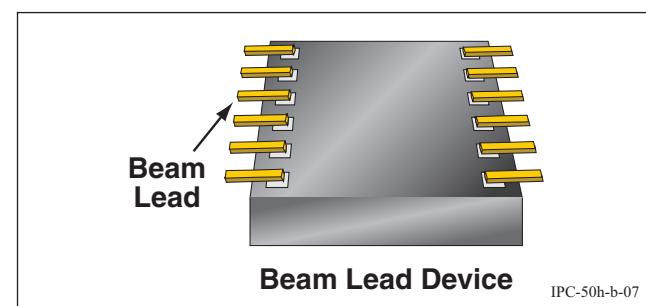
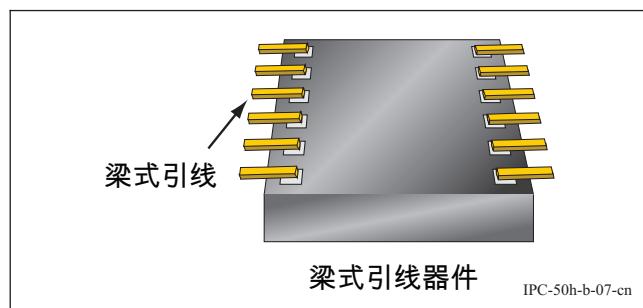


Figure B-7 Beam-Lead Device

梁式引线器件	33.0098
带有用于连接基材焊盘的梁式引线的主动(有源)或被动(无源)片式元器件。(见图B-7。)	
Bed-of-Nails Fixture	92.0101
A test fixture consisting of a frame and a holder containing a field of spring-loaded pins that make electrical contact with a planar test object.	

针床夹具	92.0101
由框架及包含弹簧针区域的支架组成, 用于与平面测试对象进行电接触的测试夹具。	



图B-7 梁式引线器件

Bellows Contact 36.1337

A type of a connector contact that consists of a flat spring that has been folded to provide a very uniform spring rate over the full tolerance range of the mating part.

扁簧接触件 36.1337

一种由弯折的扁平弹簧组成的连接器接触件，在配接零件的公差范围内提供均匀回弹率。

Benchmark, Computer 11.0102

A standard measure of the performance of computers relative to each other, including set-up time, program generation, and data processing capability.

计算机基准 11.0102

计算机性能相互比较的一种量度标准，包括安装时间、程序生成及数据处理能力。

Benchmark, Testing 92.0103

A standard measure of the performance of testers relative to each other, including set-up time, test program generation, and fixturing.

测试基准 92.0103

测试设备功能相互比较的一种量度标准，包括安装时间，测试程序生成及定位。

Bending Resistance 92.1565

The ability of a material to withstand repeated bending to specified parameters without producing cracks and breaks in excess of the specification allowance.

耐弯曲性 92.1565

材料耐受重复弯曲至规定参数，而未产生超过规范允许的裂纹或断裂的能力。

Beta Error 91.0104

The size of a Type II error or the probability of accepting a hypothesis that is false.

 β 错误 91.0104

第二种类型的错误，或原假设不真但被接收的概率。

Bias (Fabric)

44.0105

Filling yarn that is off-square with the warp ends of a fabric.

纬斜（织物）

44.0105

织物上的纬纱倾斜，不与经纱相垂直。

Bifurcated Contact

36.1810

A type of connector contact that usually consists of a flat spring that has been slotted length-wise in order to provide independent contact points with the mating part.

双叉接触件

36.1810

连接器接触件的一种，通常由一片长度方向开槽的扁平弹簧组成，为配接件提供独立的接触点。

Bifurcated Solder Terminal

37.0106

A solder terminal with a slot or slit opening through which one or more wires are placed prior to soldering. (See Figure B-8.)

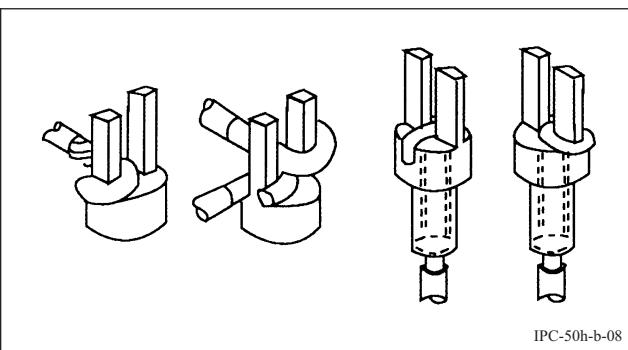
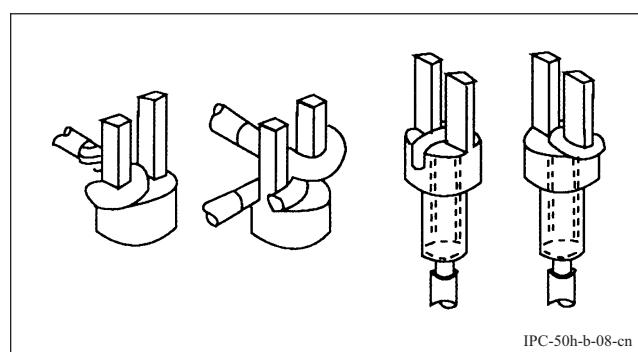


Figure B-8 Bifurcated Solder Terminal

双叉焊接接线柱

37.0106

有槽或狭长开口的焊接接线柱，焊接前一根或多根导线可以穿入其中。(见图 B-8。)



图B-8 双叉焊接接线柱

Bilateral Tolerance

26.1572

A tolerance in which variation is permitted in both directions from the specified dimension.

双向公差

26.1572

以指定尺寸为基准允许向两个方向变异的公差。

Binder	47.0107	Bismaleimide	41.0111
Material added to thick-film compositions and unfired base materials to give them additional strength for pre-fire handling. (See also "Glass Binder.")		A resin that has the generic chemical structure of an aromatic chemical group that is attached to two (or "Bis") maleimide groups.	
粘结剂	47.0107	双马来酰亚胺	41.0111
添加在厚膜组分和未烧结基材中的材料，以增加烧结前处置时的强度。(又见“玻璃粘合剂，Glass Binder”。)		具有连接两个(双)马来酰亚胺基的芳烃化学基团化学结构的树脂。	
Binomial Distribution	94.0108	Bismaleimide Triazine	41.0112
A discrete probability distribution that, with certain assumptions, describes the variation of an attribute (proportion).		A resin that contains a mixture of bismaleimide and triazine resins.	
二项分布	94.0108	双马来酰亚胺三嗪	41.0112
在某种假定下描述一个属性(比例)变化的离散型概率分布。		由双马来酰亚胺和三嗪树脂混合组成的树脂。	
Biochemical Oxygen Demand	92.0109	Blank	41.1339
A standardized measure used for estimating the degree of contamination of water.		An unprocessed or partially processed piece of base material or metal clad base material, that has been cut from a sheet or panel, that has the rough dimensions of a printed board. (See also "Panel.")	
生化需氧量	92.0109	料板	41.1339
用来估算水受到污染程度的一种标准化量度。		从整张基材或在制板上剪裁下来未经加工或部分加工过的基材或覆金属箔基材，其尺寸与印制板相近。(又见“在制板，Panel”。)	
Biocide	76.0110	Blanking	51.1574
A general name for any substance that kills or inhibits the growth of micro-organisms.		Cutting a sheet of material into pieces to the specified blank design.	
生物杀伤剂	76.0110	开料	51.1574
任何能杀死或抑制微生物生长的物质的统称。		将一张材料剪裁成指定大小的料板。	
Bipolar Device	33.1573	Bleeding	52.0113
A device in which both majority and minority carriers are present. Bi-polar and Metal-Oxide Semi-conductor (MOS) are the two most common device types.		A condition in which a plated hole discharges process material or solution from crevices or voids or a condition in which a resist migrates beyond the image area.	
双极器件	33.1573	渗出	52.0113
一种(半导体)器件，其中既有少数质流子又有多数质流子。双极和金属氧化物半导体(MOS)是两种最常见的器件类型。		从金属化孔的裂缝或空洞排出工艺材料或溶液的现象，或是阻焊剂从成像区域边缘扩散的现象。	
Birdcage	37.1338	Blends	41.0114
Stranded wire whereby the strands in the stripped portion between the covering of an insulated wire and a soldered connection, or an end-tinned lead, have separated from the normal lay of the strands.		Mixtures of resins.	
呈鸟笼状散开的导线	37.1338	混合物	41.0114
在绝缘皮覆盖部分与焊接端或上锡引线之间被剥除绝缘皮部分的股线，已经松散而无法保持多股线的原状。		树脂的混合物。	
Blind Via		Blind Via	22.0115
		A via extending only to one surface of a printed board. (See Figure B-9.)	
盲孔		盲孔	22.0115
		只延伸至印制板一个表面的导通孔。(见图B-9。)	

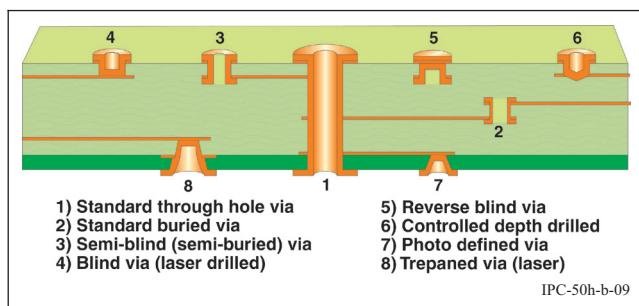
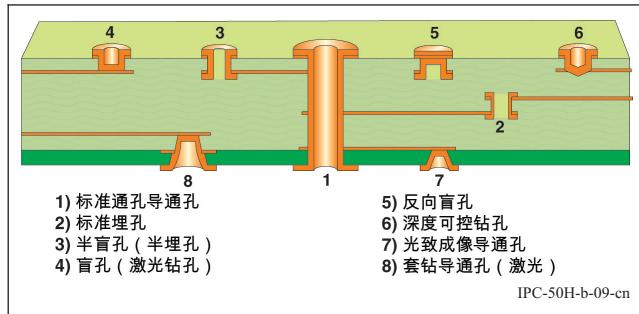


Figure B-9 Blind and Buried Vias



图B-9 盲孔和埋孔

Blister**96.1340**

Delamination in the form of a localized swelling and separation between any of the layers of a laminated base material, or between base material and conductive foil or protective coating, or solder mask.

起泡**96.1340**

表现为层压板基材的层与层之间、或基材与导电箔或基材与保护涂层、基材与阻焊膜之间的局部膨胀和分离形式的分层。

Blocking Variables**94.0116**

A relatively-homogeneous set of conditions within which different conditions of primary variables are compared.

分组变量**94.0116**

一组相对均一的条件，不同条件的初始变量可以在其间进行比较。

Blow Hole**53.0117**

A void caused by outgassing.

气孔**53.0117**

由排气而产生的空洞。

Board**60.0118**

See "Printed Board," and "Multilayer Printed Board."

板**60.0118**

见“印制板，Printed Board”和“多层印制板，Multi-layer Printed Board”。

Board Fabricator**50.1912**

The individual, organization, or company responsible for the fabrication of the bare printed board, including all process and verification operations necessary to ensure full compliance with customer requirements.

印制板制造商**50.1912**

负责制作裸印制板的个人、组织或公司，制作包括确保完全符合用户要求所必须的全部过程和验证的运作。

Board Thickness**41.1583**

The thickness of the metal-clad base material or printed board including the conductive layer.

板厚**41.1583**

包括导电层的覆金属箔基材或印制线路板的厚度。

Body Land Clearance**51.1341**

That portion of the land diameter of a drill that is decreased in order to provide clearance behind the margin. (See Figure B-10, Feature K.)

钻体刃带间隙**51.1341**

为刃带背面留出间隙的钻瓣直径的缩小部分。(见图B-10，“Feature K，要素K。")

Bond**74.0120**

An interconnection that performs a permanent electrical and/or mechanical function.

键合**74.0120**

实现永久性的电气和（或）机械功能的互连。

Bond Deformation**74.0123**

The plastic-flow change in the form of a lead caused by a bonding tool during a termination process.

键合变形**74.0123**

在端接过程中，由键合工具引起的引线形状的塑性流动变形。

Bond Enhancement Treatment**74.0125**

The improvement of the adhesion of a metal foil surface to an adjacent layer of material to which it is being attached.

粘合增强处理**74.0125**

改善金属箔表面与它所附着的相邻材料层之间粘合力的处理。

Bond Envelope**74.0126**

The range of termination parameters within which acceptable bonds may be formed.

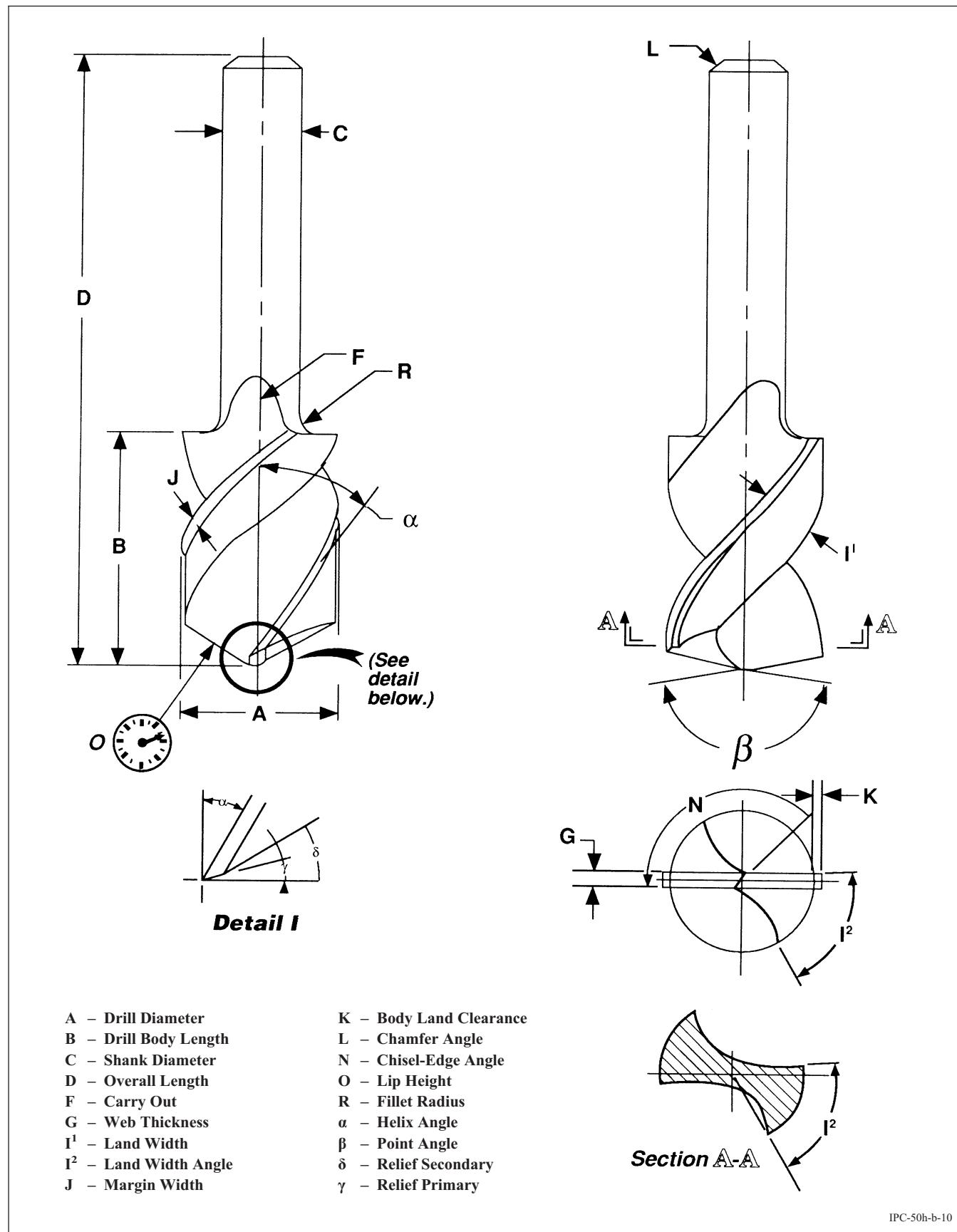
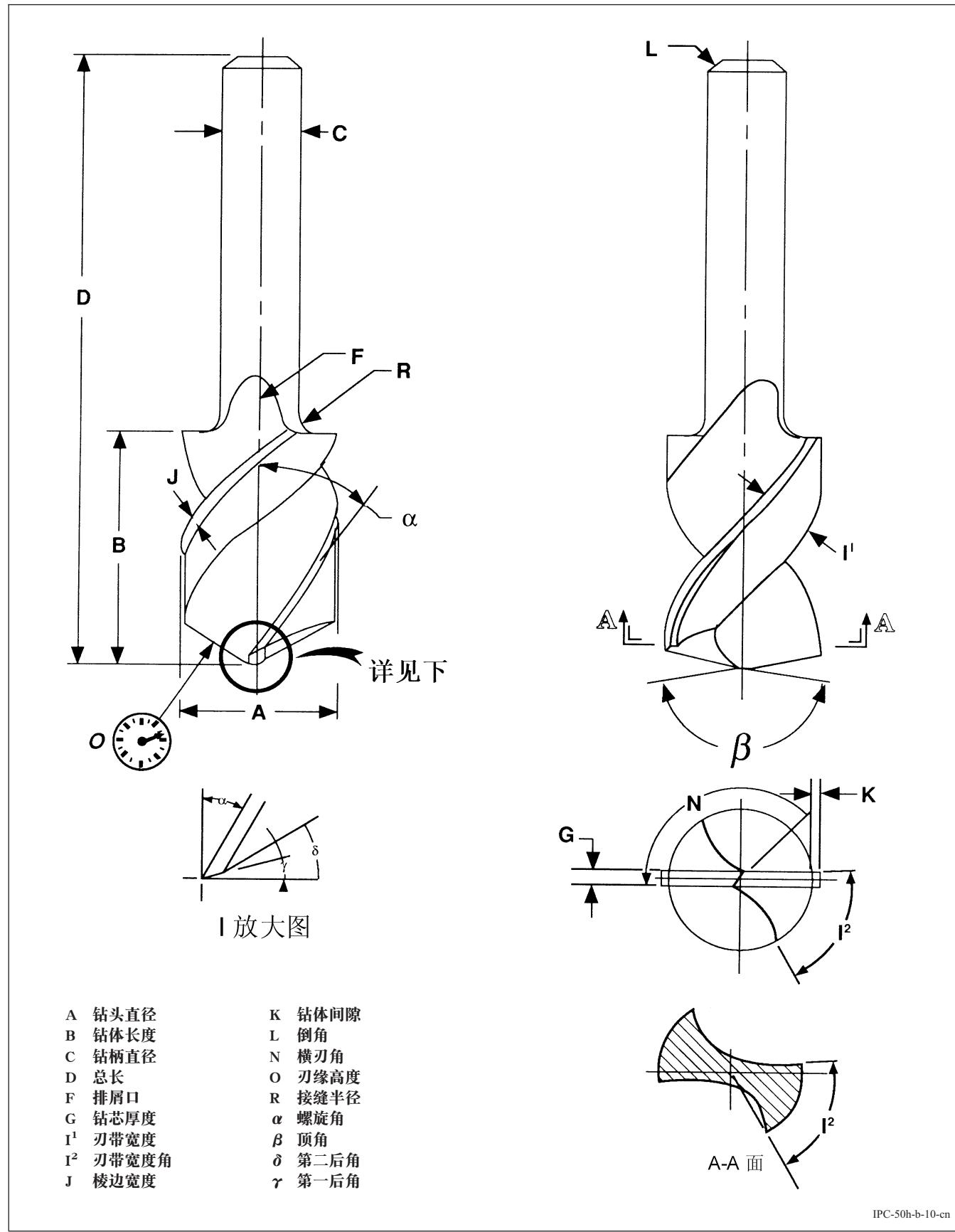
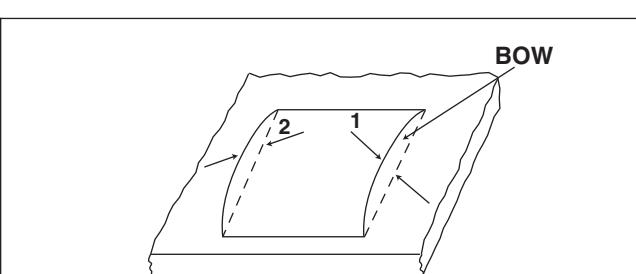


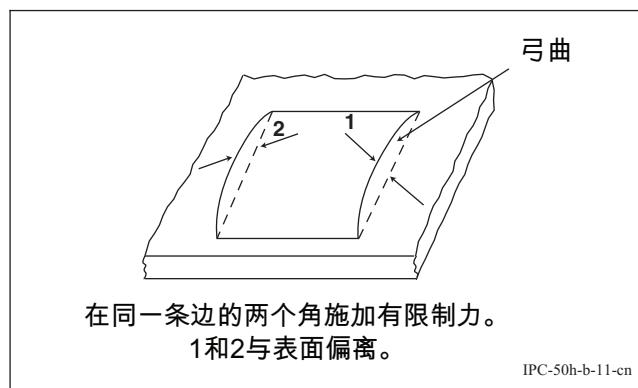
Figure B-10 Drill Features



图B-10 钻头要素

键合参数限	74.0126	键合面	74.0141
形成可接受键合的端接参数范围。		见“键合区， Bonding Area”。	
Bond Interface	74.0133	Bond-to-Bond Distance	74.0121
The common area between a lead and a land to which it has been terminated.		The distance from the bonding site on a die to the corresponding bonding site on a lead frame, interconnecting base material, etc.	
键合界面	74.0133	键合间距离	74.0121
引线与被端接连接盘之间的公共区域。		从芯片上的键合位置到引线框、互连基材上相应的键合位置间的距离。	
Bond Land	74.0134	Bond-to-Die Distance	74.0122
See “Bonding Area.”		The distance from the heel of a beam lead to the die.	
键合连接盘	74.0134	芯片键合距离	74.0122
见“键合区， Bonding Area”。		从梁式引线的跟部到芯片的距离。	
Bond Lift-Off	74.0135	Bondability	74.1342
The failure mode whereby a bonded lead separates from the surface to which it has been joined.		Those surface characteristics and conditions of cleanliness of a bonding area that must exist in order to provide for the capability to achieve a successful termination.	
键合脱离	74.0135	可键合性	74.1342
被键合引线从其相连接的表面分离的失效模式。		为提供有效端接能力，一个键合区所必需的表面特性及清洁度状况。	
Bond Schedule	74.0136	Bonding Area	74.0128
The values of termination machine parameters.		The area defined by the extent of a land or portion of a terminal to which a lead is to be bonded.	
键合参数表	74.0136	键合区	74.0128
键合机的参数值。		由连接盘范围或端子部分与引线被键合的确定的区域。	
Bond Separation	74.0137	Bonding, Die	74.0127
The distance between the termination points of the first bond and the second bond.		See “Die Bonding.”	
键合间隔	74.0137	芯片键合	74.0127
第一键合点和第二键合点之间的距离。		见“芯片键合， Die Bonding”。	
Bond Site	74.0138	Bonding Island	74.0129
That portion of the bonding area where the actual termination takes place.		See “Bonding Area.”	
键合位置	74.0138	键合岛	74.0129
键合区内实际发生端接的部分。		见“键合区， Bonding Area”。	
Bond Strength	60.0139	Bonding Layer	55.0130
The force perpendicular to a board's surface required to separate two adjacent layers of the board, expressed as force per unit area.		An adhesive layer used in bonding together other discrete layers of a multilayer printed board during lamination.	
粘合强度	60.0139	粘接层	55.0130
使印制板的两个相邻层分开时所需要的垂直于板面的力，以单位面积力来表示。		层压时，用于将多层印制板各分离层粘结在一起的粘合层。	
Bond Surface	74.0141		
See “Bonding Area.”			

Bonding Pad (IC)	33.1585	Boss (Connector)	37.0145
An area of metallization on an integrated circuit die that permit connection of fine wires or circuit element to the die.			
键合盘 (IC)	33.1585	凸台 (连接器)	37.0145
在集成电路晶片上的一块金属化区域，可实现细金属线或电路元器件与晶片的连接。			
Bonding Time	70.1586	Bounce Pad (Discrete Wiring)	64.1588
The time duration from the commencement of thermo heat-up until the reflow profile is completed.			
键合时间	70.1586	An isolated area in a copper plane which acts solely as a stop for the laser drilling operation.	
从开始加热到再流曲线完成的时间段。			
Bonding Tool	74.0131	反弹盘 (分立布线)	64.1588
The instrument used to position leads or discrete wires over a land and to impart sufficient energy to complete the termination.			
键合工具	74.0131	Bow (Fabric)	44.0146
用于将引线或分立金属线定位在连接盘上并给予足够能量来完成端接的工具。			
Bonding Wire	74.0132	Filling yarn that lies in an arc across the width of a fabric.	
Fine gold or aluminum wire used for making electrical connections between lands, lead frames, and terminals.			
键合金属线	74.0132	弓纬 (织物)	44.0146
用于在连接盘、引线框架、端子之间形成电气连接的细金丝或铝丝。			
Border Area	22.0142	Bow (Sheet, Panel, or Printed Board)	60.1218
The region on a base material that is external to that of the end-product being fabricated within it.			
边沿区	22.0142	The deviation from flatness of a board characterized by a roughly cylindrical or spherical curvature such that, if the product is rectangular, its four corners are in the same plane. (See Figure B-11.) (See also "Twist.")	
被制作的最终产品以外的基材区域。			
Border Data	22.0143		
Patterns that appear in the border area, such as tooling features, test patterns, and registration marks.			
边沿数据	22.0143	With constraining force applied to both corners of the same edge. 1 & 2 deflection from surface plane.	
出现在边沿区的图形，例如定位要素、测试图形及对准标记。			
Boss	22.0144	IPC-50h-b-11	
See "Land."			
凸台	22.0144	Figure B-11 Bow	
见“连接盘， Land”。			



图B-11 弓曲

Breakaway**54.1589**

The function of excising printed boards or printed board assemblies from their panel structure after all processing has been completed. (See Figure B-12.)

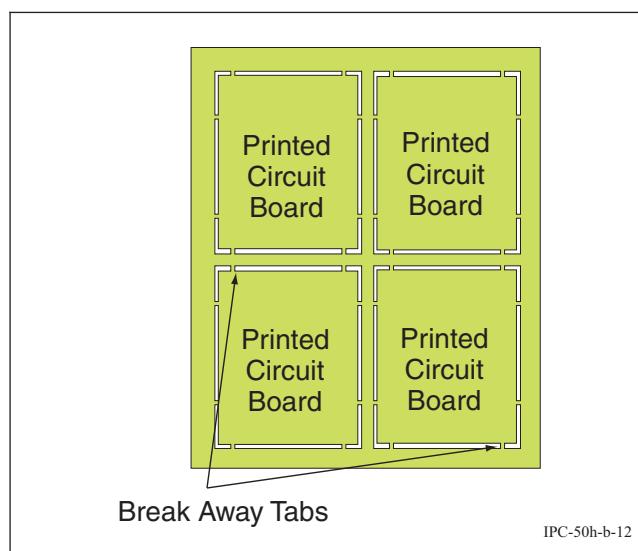


Figure B-12 Breakaway

分离**54.1589**

在全部制程完成后，将印制板或印制板组件从在制板上分开的功能。(见图B-12。)

Breakout**60.0148**

See "Hole Breakout."

破出**60.0148**

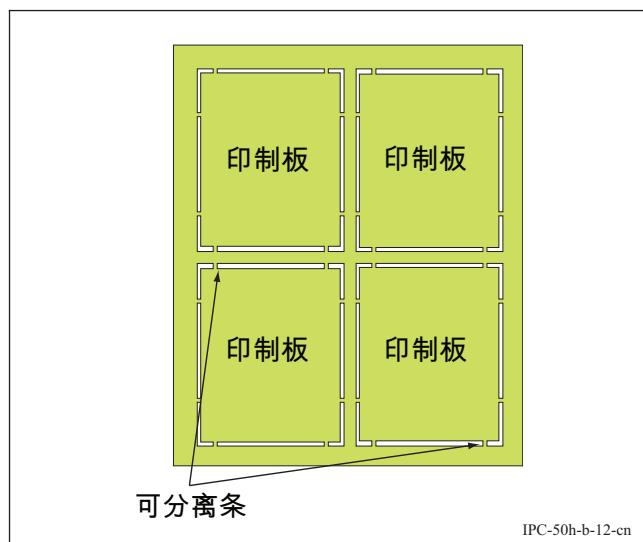
见“孔破出， Hole Breakout”。

Bridging, Electrical**70.0149**

The unintentional formation of a conductive path between conductors. (See also "Solder Bridging.")

电气桥接**70.0149**

导线之间形成的不应有导电通路。(又见“焊料桥接， Solder Bridging”。)



图B-12 分离

Brightness**24.0150**

See "Luminance."

光亮度**24.0150**

见“亮度， Luminance”。

Broken Pick**35.0151**

A filling yarn that is missing from a portion of the width of a fabric.

断纬**35.0151**

织物宽度部分缺少纬纱。

Brominated Epoxy**41.0152**

An epoxy resin containing chemically-bound bromine which is added to act as a flame retardant.

溴化环氧树脂**41.0152**

添加了化合溴作为阻燃剂的环氧树脂。

Brown Streak (Base Materials)**40.1590**

A thin vein or stain seen in the reinforcement that can range from light amber to nearly chocolate brown. It usually runs within a fiber bundle for 3 to 13 mm [0.13 to 0.512 in]. It is most commonly found in the warp yarns and may appear singly or in multiples, or in a pattern. It is due to the remnants of the glass binder agent, which the weaver did not remove.

棕色条纹（基材）**40.1590**

增强材料上可以看见的细条纹或瑕疵。颜色范围从淡黄色到巧克力色，通常出现在纤维束中3mm到13mm [0.13in到0.512in]之间。往往以单个，或多个，或图案出现于经纱方向。它是由于玻璃粘合剂的残余物未被清除干净引起的。

Brown Thread (Base Materials)	40.1591	靶心	20.0158
See "Brown Streak."		位于边缘区的一种特定图形，用以帮助对准。	
棕色丝 (基材)	40.1591	Bulk Packaging	30.1596
见“棕色条纹， Brown Streak”。		A method for packaging loose parts, into a bag or case.	
Bubble Effect	76.0153	散装	30.1596
The entrapment of air, solvent or moisture bubbles in a protective coating.		将散乱的零件装在一个袋子或盒子内的方法。	
气泡效应	76.0153	Bulk Reflow	75.1597
指夹留在保护涂层内的空气、溶剂或湿气气泡。		Reflow of multiple components, with simultaneous attachment, by an infrared (IR), convection/IR, convection, or vapor phase reflow (VPR) process.	
Buffer Material	76.0154	批量再流焊	75.1597
A resilient material that is used to protect a crack-sensitive component from the stresses generated by a conformal coating.		通过红外、对流/红外、对流或气相再流工艺，对多个元器件同时进行再流焊连接。	
缓冲材料	76.0154	Bump	34.1598
一种弹性材料，用来保护易开裂元器件免受由敷形涂覆所产生的应力。		A means of providing a (electrical) connection to the terminal area of a device. A small mound is formed on the device or substrate pads and is used as a contact for face-down loading.	
Bugging Height	74.0155	凸点	34.1598
The distance between a land and the lower surface of a beam lead caused by the deformation of the lead during bonding.		一种为器件的端接区提供（电）连接的方法。在器件上或基板焊垫上形成小垛，用作面向下负载的接触点。	
障碍高度	74.0155	Bump (Die)	74.0159
由于键合时引线变形，造成的连接盘与梁式引线下表面之间的距离。		A raised metal feature on a die land or tape carrier tape that facilitates inner-lead bonding.	
Build-up Process	61.1593	凸点（芯片）	74.0159
See "Sequential Lamination."		芯片连接盘或载带上的金属突起部分，以便进行内引线键合。	
积层工艺	61.1593	Bump Array	34.1599
见“顺序层压， Sequential Lamination”。		A group of bumps arranged in rows and columns.	
Bulge	60.0156	凸点阵列	34.1599
A swelling of a printed board that is usually caused by internal delamination or separation of fibers.		一组成行成列排布的凸点。	
凸起	60.0156	Bump Contact	34.1601
由于内部分层或纤维分离而造成印制板隆起的现象。		A contacting pad that rises substantially above the surface level of the chip.	
Bulk Conductance	92.0157	凸点触点	34.1601
Conductance between two points of a homogeneous material.		实质上高出芯片表面的接触垫。	
体积电导	92.0157	Bumped Die	74.0160
匀质材料两个点之间的电导。		A semiconductor die with raised metal features that facilitate inner-lead bonding. (See Figure B-13.)	
Bulls-Eye	20.0158		
A stylized pattern that is located in the border area in order to aid in alignment.			

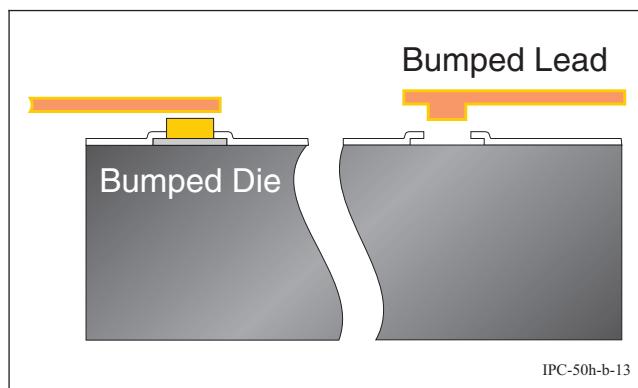
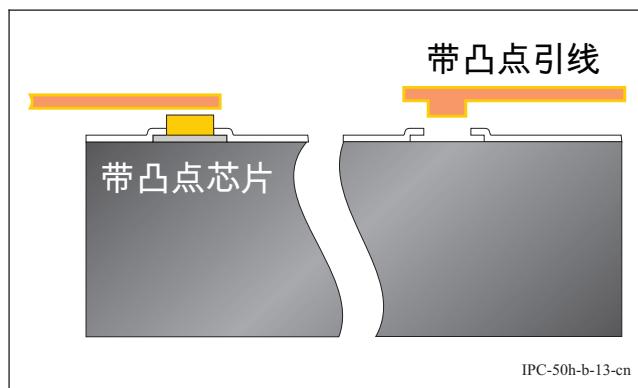


Figure B-13 Bumped Die

带凸点芯片**74.0160**

带有金属突起部分的半导体芯片，以便进行内引线键合。(见图B-13。)



图B-13 带凸点芯片

Bumped Tape**74.0161**

Carrier tape with raised metal features that facilitate inner-lead bonding.

带凸点载带**74.0161**

带有金属突起部分的载带，以便进行内引线键合。

Bumped Wafer**74.0162**

A semiconductor wafer with raised metal features on its die lands that facilitate inner-lead bonding.

带凸点晶圆**74.0162**

在其芯片连接晶片上带有金属突起部分的半导体晶圆，以便进行内引线键合。

Buried Via**22.0163**

A via that does not extend to the surface of a printed board.
(See Figure B-9.)

埋孔**22.0163**

未延伸至印制板表面的导通孔。(见图B-9。)

Burn-In**95.0164**

The process of electrically stressing a device at an elevated temperature, for a sufficient amount of time to cause the failure of marginal devices (Infant Mortality).

老化**95.0164**

在高温下对器件进行电应力处理，经过足够长的时间使处于合格边缘状态的器件产生失效（早期失效）。

Burn-In, Dynamic**95.0165**

Burn-in at high temperatures that simulates the effects of actual or simulated operating conditions.

动态老化**95.0165**

模拟在实际影响或模拟工作状态下的高温老化。

Burn-In, Static**95.0166**

Burn-in at high temperatures with unvarying voltage, either forward or reverse bias.

静态老化**95.0166**

以恒定电压，既可是正向偏压，也可是反向偏压的高温老化。

Burn-Off**74.0167**

See “Flame-Off.”

熔断**74.0167**

见“烧断， Flame-Off”。

Burnt Resin (Base Materials)**40.1602**

See “Treater Dirt.”

烧焦树脂（基材）**40.1602**

见“浸胶异物， Treater Dirt”。

Burr**92.1603**

Small lumps or masses with an irregular shape, convex to a surface, which occur as a result of a machine process such as drilling or gouging.

毛刺**92.1603**

由机械加工例如钻孔或刨削而导致的凸起于表面的不规则小块。

Bus**21.0168**

One or more conductors used for transmitting data signals or power.

总线**21.0168**

用于传输数据信号或电源的一根或多根导线。

Bus Bar **37.0169**

A conduit, such as a component or conductor on a printed board, that is used for distributing electrical energy. (See also "Plating Bar.")

汇流条 **37.0169**

用来分配电能的通道，例如印制板上的元器件或导线。(又见“电镀工艺导线，Plating Bar”。)

Butt Leads **36.1732**

A SMT lead form where leads extend horizontally from about the center of a component body, formed down at a 90 degree angle and end immediately below the component body without additional bends.

垛形引线 (I形引线) **36.1732**

一种表面贴装引线的形式。引线从元器件体中心水平地伸出，以90°角向下成形，且直接终止于低于元器件体处，不再弯曲。

Butt Plating Joint **60.2145**

A joint between two or more conductors of a printed board, at the end of one or both, and either at right angles or oblique to the grain of the conductors, with no overlap of the conductors.

对接电镀接点 **60.2145**

印制电路板上两个或多个导体之间的接点，位于其中一个导体或两个导体的末端，与导体走向成直角或锐角，但导体不互相重叠。

Butt Plating Joint (Wrap Plating) **60.2146**

The consequent via structure of a surface interconnect termination with the absence of wrap plating. (See Figure B-14.)

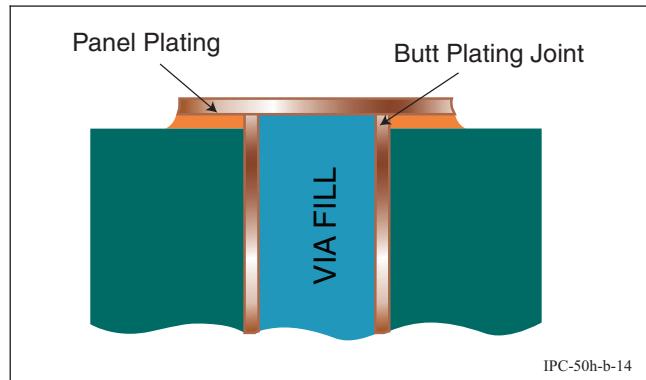
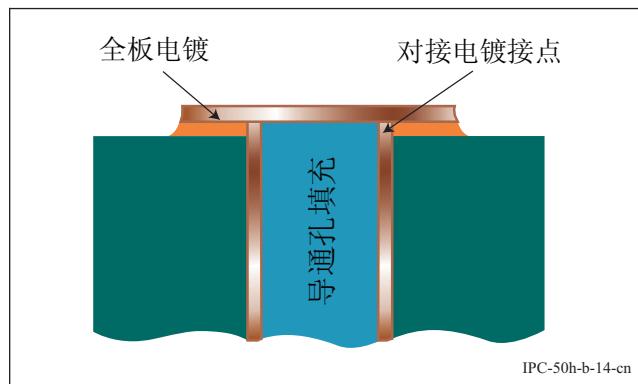


Figure B-14 Butt Plating Joint (Wrap Plating)

对接电镀接点（包覆镀层） **60.2146**

无包覆镀层的表面互连端子的导通孔结构。(见图B-14。)



图B-14 对接电镀接点（包覆镀层）

Butter Coat **41.0170**

An increased amount of resin on the outer surface of a base material.

厚涂层 **41.0170**

基材外表面上树脂的增厚层。

Button Plating **60.2143**

The process of plating only in the holes and on pads. (See Figure B-15).

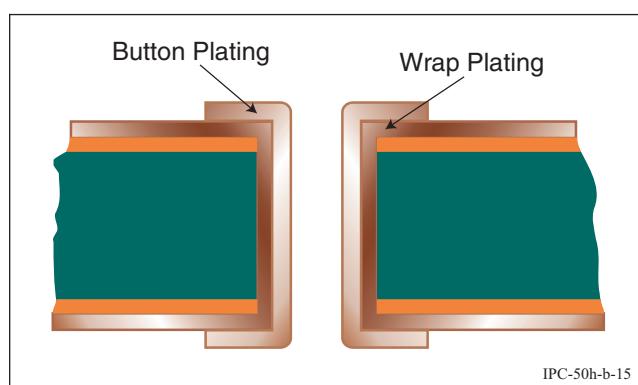
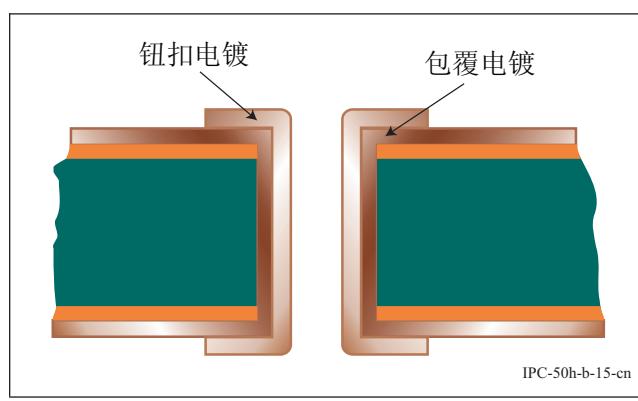


Figure B-15 Button Plating

钮扣电镀 **60.2143**

只电镀孔内和焊盘的工艺。(见图B-15。)



图B-15 钮扣电镀

C

C-Staged Resin	41.0171	能力特性指数 (Cp)	79.1806
A resin in its final state of cure. (See also "B-Staged Resin.")			测量得到的过程特性与规定界限之比。
C阶树脂	41.0171	Capability Performance, Lower (CpkL)	91.1367
处于固化最后阶段的树脂。(又见“B阶树脂, B-Staged Resin”。)			A measure of the relationship between the performance of a process and the lower specification limit. (See also "Capability Performance, Upper.")
Camber	92.0172	能力特性, 下限 (CpkL)	91.1367
The planar deflection of a flat cable or flexible laminate from a straight line.			过程特性和下规格极限之间关系的量度。(又见“能力特性, 上限, Capability Performance, Upper”。)
弯度	92.0172	Capability Performance, Upper (CpkU)	91.1344
挠性板或扁平电缆的平面偏离直线的程度。			A measure of the relationship between the performance of a process and the upper specification limit. (See also "Capability Performance, Lower.")
Cant	70.2183	能力特性, 上限 (CpkU)	91.1344
The angle between the bottom mounting surface of a component and the top surface of the printed board.			过程特性和上规格极限之间关系的量度。(又见“能力特性, 下限, Capability Performance, Lower”。)
倾斜角	70.2183	Capability Test Board (CTB)	94.1784
元器件底部安装面与印制板上表面之间的角度。			A printed board specifically designed to act as a capability qualifying component (CQC), or to be used by manufacturer to evaluate process variation, process control, or continuous improvement procedures.
Cap Lamination	55.0176	能力测试板 (CTB)	94.1784
A process for making multilayer printed boards with surface layers of metal-clad laminate bonded in a single operation. (See also "Foil Lamination.")			专门设计的印制板, 用来作为能力鉴定部件 (CQC), 或被制造商用来对过程变化、过程控制或持续改进程序进行评估。
覆盖层压	55.0176	Capability Test Segment (CTS)	94.1785
采用单面覆金属箔基板作表层, 以一次层压法制作多层印制电路板的过程。(又见“覆箔层压, Foil Lamination”。)			A segment or portion of a capability test board (CTB), containing a set or group of individual test patterns (ITP), intended to be used to demonstrate a specific level of printed board complexity or manufacturing capability.
Capability Detail Specification (CapDS)	26.1780	能力测试块 (CTS)	94.1785
A document that establishes the specific requirements, noted in a detailed specification, in order to establish the level of capability that a manufacturer possesses when he has demonstrated that he has met those requirements.			能力测试板的一部分或一个分块, 包含一套或一组独立测试图形, 用来证明印制板复杂性或制造能力的特定水平。
能力详细规范 (CapDS)	26.1780	Capacitance	21.1794
一份建立了明确要求的文件, 详细规范中给出了这些要求的注释, 以便制造商证明他达到这些要求时, 确定他所拥有的能力水平。			A measure of the ability of two adjacent conductors separated by an insulator to hold a charge when a voltage is impressed between them.
Capability Index (Cp)	91.0306	电容	21.1794
See "Capability Performance Index."			对两个被绝缘体分隔开的相邻导体施加电压时, 其储存电荷能力的量度。
能力指数 (Cp)	91.0306	Capacitance Density	21.0173
见“能力特性指数, Capability Performance Index”。			The amount of capacitance available per unit area.
Capability Performance Index (Cp)	79.1806		
The ratio of the measured performance of a process compared to specified limits.			

电容密度 21.0173

每单位面积可得到的电容的量。

Capacitive Coupling 21.0174

The electrical interaction between two conductors that is caused by the capacitance between them.

电容耦合 21.0174

两个导体间的电容所引起的电相互作用。

Capillary 74.0175

A hollow bonding tool used to guide wire to the bonding site and to be used to apply pressure during the bonding cycle. (See also "Wedge Tool.")

毛细导管 74.0175

用于将金属线引导至键合位置并在键合期间施加压力的中空键合工具。(又见“楔焊工具，Wedge Tool”。)

Capture Land (Via Top Land) 22.2116

The land portion of a microvia connecting from an exterior conductor. (See Figure C-1.)

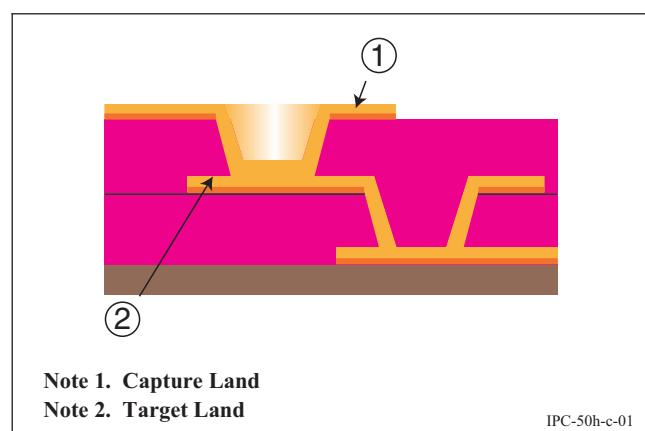


Figure C-1 Capture and Target Land (Microvia)

诱捕连接盘（导通孔顶部连接盘） 22.2116

与外部导体连接的微导通孔的连接盘部分。(见图C-1)。

Card 60.0177

See "Printed Board."

卡板 60.0177

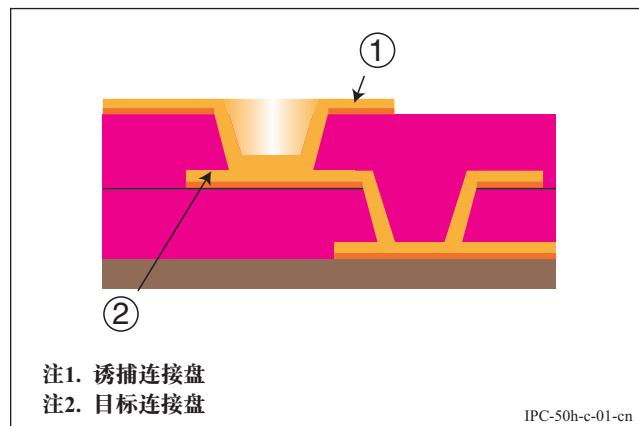
见“印制板，Printed Board”。

Card-Edge Connector 22.0178

See "Edge-Board Connector."

卡边连接器 22.0178

见“板边连接器，Edge-Board Connector”。



图C-1 诱捕连接盘和目标连接盘（微导通孔）

Card-Insertion Connector 22.0179

See "Edge-Board Connector."

插卡连接器 22.0179

见“板边连接器，Edge-Board Connector”。

Carrier 30.1605

Container that directly holds components, such as a tray, tube, or tape and reel.

载体 30.1605

用来直接盛装零件的容器，例如托盘、管子、卷带或卷轴。

Carrier (Foil) 45.0180

A temporary support medium that facilitates the handling of thin and soft-metal foils.

载体（箔） 45.0180

临时性支撑介质，使又软又薄的金属箔便于处理。

Carrier Tape 36.1345

The carrier for conductors used in tape-automated bonding. (See also "Multilayer Carrier Tape," "Single-Layer Carrier Tape," "Two-Layer Carrier Tape" and "Three-Layer Carrier Tape.")

载带 36.1345

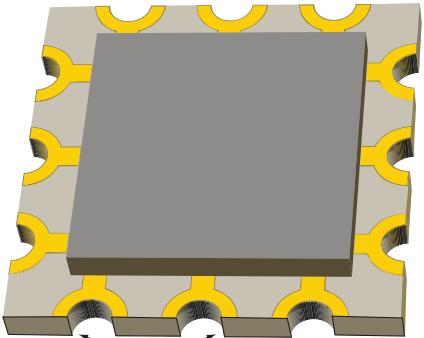
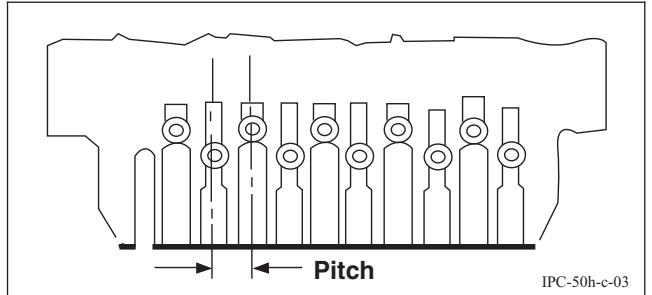
用于自动载带焊接机上承载导体的载体带。(又见“多层载带，Multilayer Carrier Tape”、“单层载带，Single-Layer Carrier Tape”、“双层载带，Two-Layer Carrier Tape”及“三层载带，Three-Layer Carrier Tape”。)

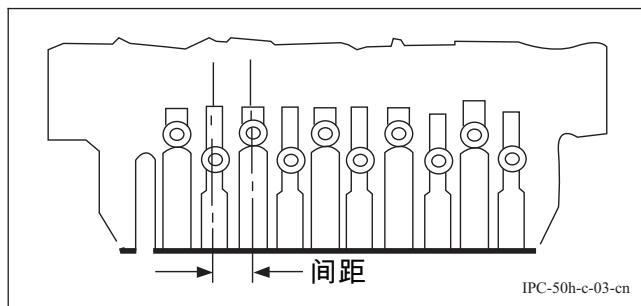
Carry-Out 51.0181

The curved back portion of the flute of a drill.

排屑口 51.0181

钻头上容屑槽后部的弧形部分。

Cartridge	30.1606	Catalyzing	53.0184
A container for components that facilitates the loading and unloading of them.		See "Activating."	
料盒	30.1606	催化	53.0184
盛放元器件的容器，便于元器件的装卸。		见“活化，Activating”。	
Castellation	33.0182	Cathodic Cleaning	57.0185
A recessed metalized feature on the edge of a leadless chip carrier that is used to interconnect conducting surfaces or planes within or on the chip carrier. (See Figure C-2.)		Electrolytic cleaning in which the work is the cathode.	
 <p>Figure C-2 shows a top-down view of a leadless chip carrier. It features a central rectangular component surrounded by a series of four U-shaped metalized features called castellations, which are used for interconnection. The diagram is labeled 'Castellations' at the bottom.</p>	IPC-50h-c-02	阴极清洗 将工件作为阴极的电解清洗。	57.0185
Figure C-2 Castellation	33.0182	Cation Exchange See "Ion Exchange."	59.0186
城堡形端子	33.0182	阳离子交换 见“离子交换，Ion Exchange”。	59.0186
无引线芯片载体边缘上凹入的金属化构件，用以与芯片载体上面或内部的导电表面或平面间互连。(见图C-2。)		Cationic Reagent Surface-active substances that have the active constituent in the positive ion.	59.0187
	IPC-50h-c-02	阳离子表面活性剂 活性组分为正离子的表面活性剂。	59.0187
		Cause-and-Effect Diagram A problem solving tool that uses a graphic description of various process elements in order to analyze potential sources of process variation.	94.0188
		因果图 一种解决问题的工具，对各种过程要素作图解描述，用来分析过程变异的潜在根源。	94.0188
		Center-to-Center Spacing The nominal distance between the centers of adjacent features on any single layer of a printed board. (See Figure C-3.) (See also "Pitch.")	22.1346
		 <p>Figure C-3 shows a cross-section of a printed board with multiple conductive traces. The distance between the centers of two adjacent traces is labeled 'Pitch'. The diagram is labeled 'Pitch' at the bottom.</p>	
图C-2 城堡形端子	IPC-50h-c-02		
Catalyst (Resin)	40.0183		
A chemical that is used to initiate the reaction or increase the speed of the reaction between a resin and a curing agent.			
催化剂（树脂）	40.0183		
用来触发树脂与固化剂之间反应或增加其反应速度的化学物质。			
	IPC-50h-c-03		
Figure C-3 Center-to-Center Spacing (pitch)			
中心距	22.1346		
印制板任一层中相邻两导体中心之间的标称距离。			
(见图C-3。)(又见“间距，Pitch”。)			



图C-3 中心距（间距）

Centering Force **73.1733**

The force required by the pick-up tooling to center a surface mounting device in its proper location on a substrate.

对中力 **73.1733**

拾取装置将表面贴装器件放在基材的适当位置中心所必需的力。

Centerwire Break **74.0189**

A failure mode in a wire pull test whereby the wire fractures at approximately its midspan.

金属线中心断裂 **74.0189**

金属线拉伸测试中的一种失效模式，金属线在其跨距中点附近断裂。

Centipoise **46.1608**

A metric unit of the measure of viscosity equal to 1/100 poise. See "Poise."

厘泊 **46.1608**

粘度的米制量度单位，等于泊的百分之一。(又见“泊，Poise”。)

Central Line **91.0190**

The line on a control chart that depicts the average or median value of the items being plotted.

中心线 **91.0190**

控制图上描述所标绘项目的均值或中间值的线。

Ceramic Dual-in-line Package (CERDIP) **31.1611**

A dual in-line-package that has a package body of ceramic material and hermetically sealed by a glass. (See also "Dual-in-line Package.")

陶瓷双列直插式封装 (CERDIP) **31.1611**

封装体为陶瓷材料并用玻璃密封的双列直插式封装。(又见“双列直插式封装，Dual-In-Line Package”。)

Ceramic Pin Grid Array

31.1612

A pin grid array package (PGA) made of a ceramic material, hermetically sealed by metal, with leads formed on a grid extending from the bottom of the package.

陶瓷针栅阵列

31.1612

针栅阵列封装 (PGA)，由陶瓷材料制成并用金属密封，引线从封装体底部伸出呈栅格状排列。

Ceramic Quad Flat Pack (CQFP)

33.1613

A quad flat package (QFP) made of a ceramic material, hermetically sealed by metal, with leads extending from all four sides.

陶瓷方形扁平封装 (CQFP)

33.1613

由陶瓷材料制成并用金属密封的方形扁平封装 (QPF)，引线从四周伸出。

Certification

17.0191

The verification that specified training or testing has been performed and that required proficiency or parameter values have been attained.

认证

17.0191

对已完成规定的培训或测试且达到了所要求的熟练程度或参数值的验证。

Chain Dimensioning

26.0192

The maximum variation between two features that is equal to the sum of the tolerances on the intermediate distances.

链式尺寸标注

26.0192

两要素间的最大变异等于各中间距离公差之和。

Chalking (Cured Solder Mask)

47.1005

When the solder mask is degraded such that fine particulates can be removed from the surface.

粉化 (固化的阻焊膜)

47.1005

当阻焊膜退化时，细颗粒就会从表面脱落的一种现象。

Chamfer (Drill)

51.0193

The angle at the end of a drill shank.

倒角 (钻头)

51.0193

钻柄末端的斜角。

Character

70.1615

A letter, digit, or other special form that is used to represent data in a bar code symbol. (See also "Bar Code Symbol.")

符号**70.1615**

条码符号中用来表示数据的字母、数字或其它他特殊形式。(又见“条码符号, Bar Code Symbol”。)

Characteristic Curve**24.1347**

A plot of photographic product optical-density data versus the logarithm of the exposure used to characterize the response of the material to exposure and development. (See Figure C-4.)

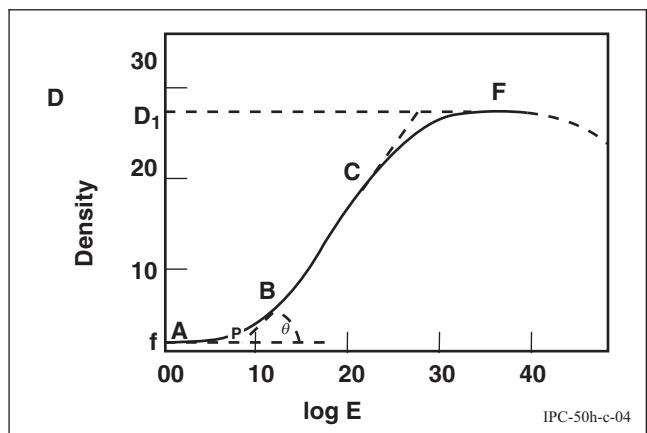
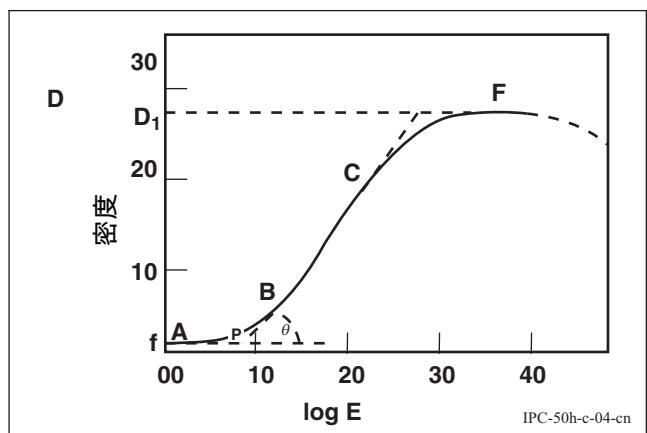


Figure C-4 Typical Characteristic Curve

特性曲线**24.1347**

照相材料光密度值与曝光量对数值的关系曲线图,用以描述材料对曝光量和显影的响应。(见图C-4。)



图C-4 典型特性曲线

Characteristic Impedance**21.0194**

The resistance of a parallel conductor structure to the flow of alternating current (AC), usually applied to high speed circuits, and normally consisting of a constant value over a wide range of frequencies.

特性阻抗**21.0194**

平行导体结构对交流电流动的阻抗,通常应用于高速电路,正常情况下,在很宽的频率内有一个恒定值。

Check List**94.1219**

A compilation of the specified criteria that may be evaluated during an audit or inspection.

检查清单**94.1219**

审核时或检验时用作评价的规定准则的汇集。

Check Plot**94.0195**

An interim drawing used for graphical data verification.

校查图**94.0195**

用于图形数据验证的临时绘图。

Check Sheet**94.0196**

A form that is used for data collection.

校查表**94.0196**

用来收集数据的一种表格。

Chelate Compound**76.0197**

A compound in which metal is contained as an integral part of a ring structure.

螯合物**76.0197**

含有金属作为环状结构一部分的化合物。

Chelating Agent**76.0198**

A compound capable of forming a chelate compound with a metal ion.

螯合剂**76.0198**

能与金属离子形成螯合物的化合物。

Chemical Conversion Coating**57.0199**

A protective coating produced by the chemical reaction of a metal with a chemical solution.

化学转换涂层**57.0199**

金属与化学溶液经化学反应而生成的一种保护涂覆层。

Chemical Resistance**40.1616**

The resistance of an insulating material to the degradation of surface characteristics, such as surface roughness, swelling, tackiness, blistering or color change, beyond the specified allowance by exposure to chemicals such as acids, alkalis, salts, or solvents.

耐化学性**40.1616**

绝缘材料暴露在酸、碱、盐或溶剂等化学物质中,其表面特性劣化不超出规定允许范围的抵抗能力,表面特性指表面粗糙度、膨胀、粘着性、起泡或颜色改变。

Chemical Vapor Deposition	45.0202	Chip Carrier	33.0208
The deposition of a film onto the surface of a substrate by the chemical reduction of a vapor on contact with the base material.		A low-profile, usually square, surface-mount component semiconductor package whose die cavity or die mounting area is a large fraction of the package size and whose external connections are usually on all four sides of the package. (It may be leaded or leadless.)	
化学气相沉积	45.0202	芯片载体	33.0208
蒸气与基材相接触产生化学还原反应，在基材表面沉积薄膜的过程。		一种薄外形、通常是正方形的表面贴装元器件的半导体封装，其芯片腔体或芯片安装区占封装尺寸的大部分，它的外部连接通常位于封装的四周（可以有引线也可以无引线）。	
Chemical Wire Stripping	37.0203	Chip-and-Wire	74.0206
The process of removing insulation from wire using chemical compounds.		An assembly method that uses discrete wires to interconnect back-bonding die to lands, lead frames, etc.	
化学剥线	37.0203	芯片-金属线	74.0206
采用化合物从导线上去除绝缘皮的过程。		用分立金属线实现背连芯片与连接盘、引线框架互连的组装方法。	
Chemically-Deposited Printed Circuit	50.0201	Chip-in-Board (CIB)	74.1617
See "Additive Process."		An electronic component where a chip is inserted into an opening of a ceramic or glass-epoxy substrate and bonded by wire bonding or TAB techniques. The object of this technique is to reduce the thickness of the COB assembly. The chip may be covered by a resin after bonding.	
化学沉积印制电路	50.0201	板内芯片直装 (CIB)	74.1617
见“加成法， Additive Process”。		一种将芯片嵌入陶瓷或玻璃纤维环氧树脂基板的开口内，并通过引线键合或TAB技术键合在一起的电子元器件。这种技术的目的是减少芯片直接贴装（COB）组件的厚度。键合后可用树脂覆盖芯片。	
Chemically-Deposited Printed Wiring	50.0200	Chip-on-Board (COB)	86.0207
See "Additive Process."		A printed board assembly technology that places unpackaged semiconductor dice and interconnects them by wire bonding or similar attachment techniques. Silicon area density is usually less than that of the printed board. (See Figure C-5.)	
化学沉积印制线路	50.0200	板上芯片直装 (COB)	86.0207
见“加成法， Additive Process”。		放置未封装半导体晶粒并采用引线键合或类似的连接技术实现其互连的印制板电子组装技术。硅表面的密度通常比印制板的低。（见图C-5。）	
Chemisorption	74.1348	Chip-on-Board Assembly	74.1618
The formation of bonds between the surface molecules of a metal, or other material of high surface energy, and another gas or liquid substance in contact with it.		A printed board assembly using a combination of uncased chips and other devices. The silicon area density is less than 30%.	
化学吸附	74.1348	板上芯片直装组件	74.1618
金属或其它高表面能材料的表面分子，与其它气体或液体物质接触时形成的相互结合。		将未封装芯片和其他器件结合的印制板组件。硅表面的密度低于30%。	
Chessman	74.0204		
A disk, knob or lever used to manually control the position of a bonding tool with respect to land.			
操作杆	74.0204		
用于手动控制键接工具相对于连接盘位置的一种圆盘、按钮或把手。			
Chip	35.0205		
See "Die."			
芯片	35.0205		
见“晶片， Die”。			

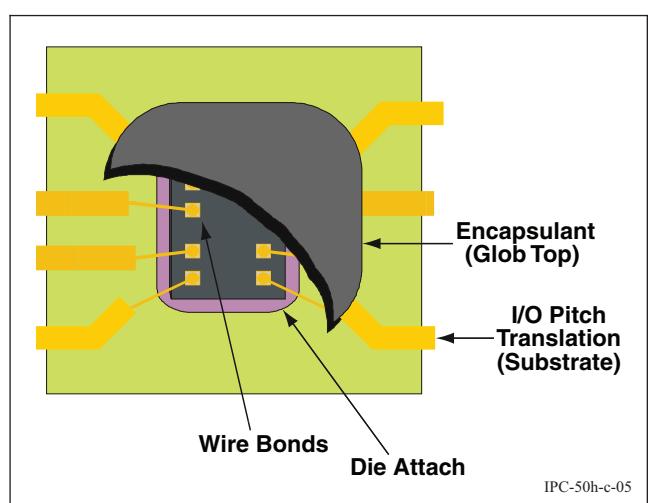
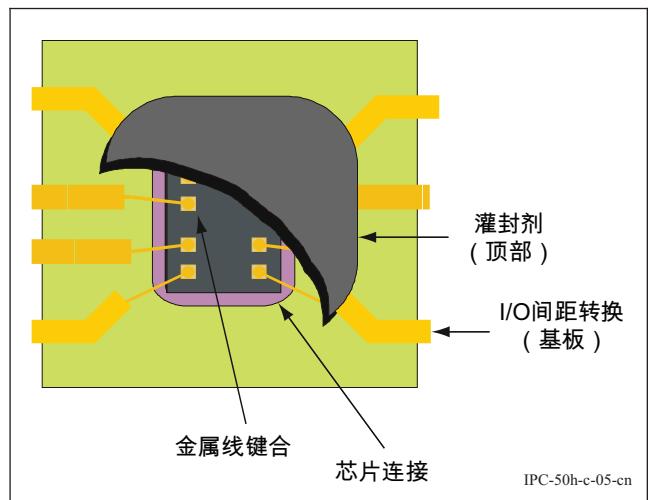


Figure C-5 Chip-on-Board



图C-5 板上芯片直装

Chip-on-Flex (COF) 74.1619

Semiconductor chip mounted directly onto flexible printed board.

挠性板上芯片直装 (COF) 74.1619

将半导体芯片直接安装在挠性印制板上。

Chip-on-Glass (COG) 74.1620

An assembly technology that uses an unpackaged semiconductor die mounted directly on a glass substrate such as a glass plate for liquid crystal display (LCD).

玻璃基板芯片直装 (COG) 74.1620

将未封装芯片直接安装在玻璃基板例如液晶显示器 (LCD) 的玻璃板上的组装技术。

Chip Scale Package (CSP) 74.2152

The direct attachment of a chip to a substrate without an interposer.

芯片尺寸封装 (CSP)

74.2152

不采用中介基板而实现芯片与基板的直接连接。

Chipped Point

51.0209

A condition whereby the amount of chips on the leading edge of a drill point exceeds an allowable value.

钻尖缺损

51.0209

钻尖切削刃的缺损量超出了允许值的状况。

Chipping

51.0257

A piece of a panel or board that has broken away.

碎边角

51.0257

从在制板或单板上分离出来的一部分。

Chisel

74.0210

A tool used for wedge and ultrasonic bonding.

劈刀

74.0210

用于楔形超声键合的工具。

Chisel-Edge Angle

51.0211

The angle between the leading cutting edge and the intersection of the primary and secondary relief facets of a drill point.

横刃角

51.0211

主切削刃与钻尖的第一和第二主后面的交线之间的夹角。

Chopped Bond

74.0212

A bond with excessive deformation such that the strength of the bond is greatly reduced.

压陷键合

74.0212

具有过度形变导致键合力大大减小的键合。

Circuit

21.0213

A number of electrical elements and devices that have been interconnected to perform a desired electrical function.

电路

21.0213

许多电气部件和器件互连在一起以实现预期的电气功能。

Circuit Board

60.1625

See "Printed Board."

电路板

60.1625

见“印制板， Printed Board”。

Circuit Card

60.0214

See "Printed Board."

电路卡 60.0214

见“印制板， Printed Board”。

Circuit Density 22.1824

The average quantity of electronic components (prefabricated or part of the interconnecting structure) on a unit area of a printed board considering one or both sides for component mounting.

电路密度 22.1824

单面或双面安装元器件的印制板中单位面积上电子元器件（预制的或互连结构部分）的平均数量。

Circuitry Layer 22.0215

A layer of a printed board containing conductors, including ground and voltage planes.

电路层 22.0215

印制板中含有导体（包括接地层、电压层）的层。

Circumferential Separation 96.1349

A crack or void in the plating extending around the entire circumference of a plated through hole, a solder fillet around lead wire or eyelet, or the interface between a solder fillet and a land.

环状断裂 96.1349

沿着镀通孔整个圆周的镀层、引线或空心铆钉周围的焊缝、或焊缝与连接盘的界面处的裂缝或空洞。

Circumferential Thermodes 74.1734

A contact tool used for inner-lead and outer-lead gang bonding.

环形热电极 74.1734

用于内引线和外引线多点键合的接触工具。

Clad (adj.) 55.1350

A condition of the base material to which a relatively-thin layer or sheet of metal foil has been bonded to one or both of its sides, e.g., “a metal-clad base material.”

覆箔的（形容词） 55.1350

在基材的一面或两面粘接有相对较薄的金属层或金属片的状况，例如“覆金属箔基材”。

Clearance Hole 22.1811

A hole in a conductive pattern that is larger than, and coaxial with a hole in the base material of a printed board. (See Figure C-6.)

隔离孔 22.1811

导电图形上的孔，大于印制板基材中与之同心的孔。（见图C-6。）

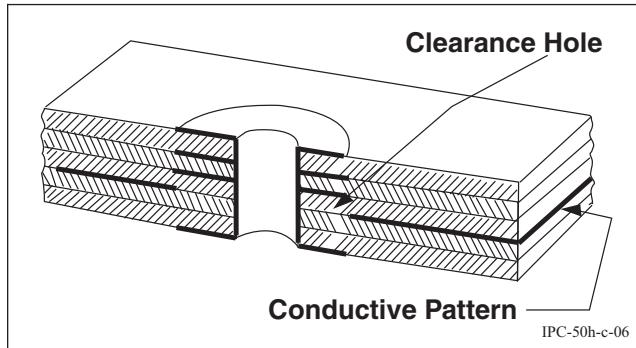
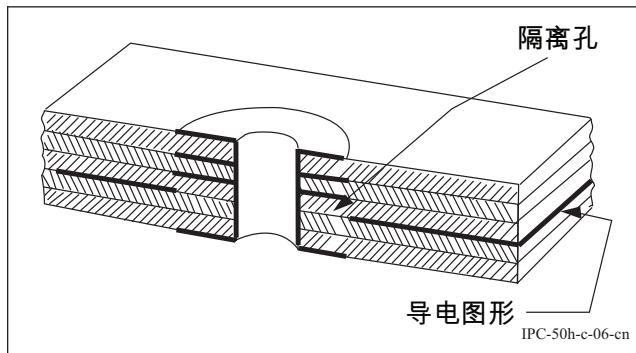


Figure C-6 Clearance Hole



图C-6 隔离孔

Clinched Lead 72.1351

A component lead that is inserted through a hole in a printed board and is then formed in order to retain the component in place and in order to make metal-to-metal contact with a land prior to soldering. (See also “Partially-Clinched Lead.”)

折弯引线 72.1351

元器件引线穿过印制板的安装孔然后弯折成形使元器件固定，且在焊接前与焊盘形成金属与金属接触。（又见“部分折弯引线， Partially-Clinched Lead”。）

Clinched-Wire Interfacial Connection 72.0217

See “Clinched-Wire Through Connection.”

弯线面间连接 72.0217

见“弯线贯穿连接， Clinched-Wire Through Connection”。

Clinched-Wire Through Connection 72.1352

A connection made by a bare wire that has been passed through a hole in a printed board and subsequently formed (clinched) and soldered to the conductive pattern on each side of the board. (See Figure C-7.)

弯线贯穿连接 72.1352

将裸导线穿过印制板的孔，然后折弯成形与印制板两面的导电图形焊接形成的连接。（见图C-7。）

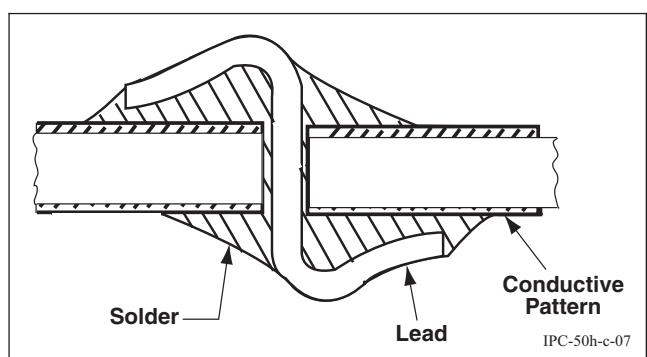
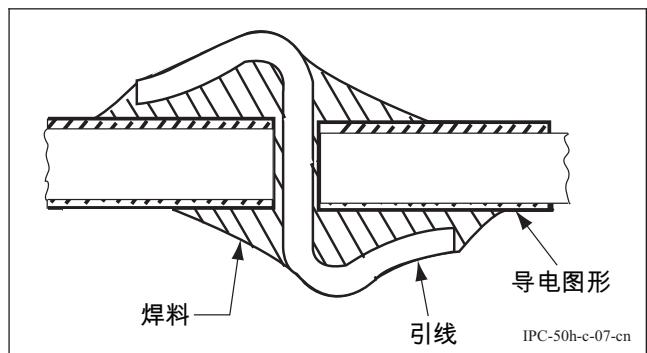


Figure C-7 Clinched-Wire Through Connection



图C-7 弯线贯穿连接

Closed-Entry Contact

37.0218

A type of female connector contact that prevents the entry of an oversized mating part. (See also "Open-Entry Contact.")

闭口接触件

37.0218

能防止尺寸过大配接件插入的凹形连接器接触件。
(又见 "开口接触件, Open-Entry Contact"。)

Co-Firing

56.0219

The simultaneous processing of thick-film circuit elements during one firing cycle.

共烧

56.0219

在一次焙烧周期中对厚膜电路元器件的同步处理。

Coaxial Cable

37.0220

A cable in the form of a central wire surrounded by a conductor tubing or sheathing that serves as a shield and return.

同轴线缆

37.0220

中心导线被起屏蔽和回路作用的导电管或导电护套环绕的线缆。

Code 39

70.1626

A type of bar code named because it contains nine elements, bars and spaces, with three wide elements and six narrow elements.

39条码

70.1626

一种条码名称，它的一个条码字符由九个包含条和空的单元组成，其中有三个是宽单元，其余六个是窄单元。

Code Density

70.1627

The number of characters per unit length in a bar code symbol.

条码密度

70.1627

条码符号中单位长度内的字符个数。

Coefficient of Thermal Expansion (CTE)

40.0221

The linear dimensional change of a material per unit change in temperature. (See also "Thermal Expansion Mismatch.")

热膨胀系数

40.0221

每单位温度变化引起材料的线性尺寸改变。(又见 "热膨胀不匹配, Thermal Expansion Mismatch"。)

Cohesion (Pressure Sensitive Tape)

75.1628

The ability of a pressure sensitive adhesive to resist splitting.

附着性 (压敏胶带)

75.1628

压敏粘合剂抵抗撕开的能力。

Cohesion Failure

96.0222

The rupture of an adhesive bond such that the separation appears to be within the adhesive.

附着失效

96.0222

粘接接合的断裂，其分离发生在粘合剂内。

Coined Lead

22.0223

The end of a round lead that has been formed to have parallel surfaces that approximate the shape of a ribbon lead.

扁圆引线

22.0223

经过成型、有类似带状引线平行表面的圆引线末端。

Cold Flow (Pressure Sensitive Tape)

75.1629

The tendency of some pressure sensitive adhesives to act like a heavy viscous liquid and exhibit a limited amount of flow over a period of hours or days at room temperature.

冷流动 (压敏胶带)

75.1629

某些压敏胶粘剂呈现类似粘稠液体的倾向，在室温下经过几个小时或几天显示有限的流动。

Cold Hand Cleaning

76.0224

Cleaning with a soft brush and rinsing in a small open tank of chlorinated solvent or isopropanol. (Propan-2-01.)

手工冷清洗 76.0224
用软毛刷清洗并在装有氯化溶剂或异丙醇（丙醇-2-01）的小敞口箱内漂洗。

Cold Machine Cleaning 76.0225
Cleaning with a chlorinated solvent and an inline brush or wave cleaner.

机器冷清洗 76.0225
在氯化溶剂中用内置毛刷或波峰清洗机清洗。

Cold Solder Connection 97.0226
A solder connection that exhibits poor wetting, and that is characterized by a grayish, porous appearance. (This is due to excessive impurities in the solder, inadequate cleaning prior to soldering, and/or the insufficient application of heat during the soldering process.) (See also "Rosin Solder Connection.")

冷焊接连接 97.0226
焊接连接呈现出润湿不良及灰色多孔外观。(这是由于焊料杂质过多，焊前清洁不佳，和/或焊接工艺期间加热不足造成的。) (又见“松香焊料连接，Rosin Solder Connection”。)

Color Selectivity 24.1630
The preferential absorption of thermal radiation caused by emitted energy with wavelength frequencies in the visible band of from 0.39-0.78 microns.

颜色选择性 24.1630
对可见光波段内波频率长在0.39μm至0.78μm之间的发射能量所产生的热辐射的优先吸收。

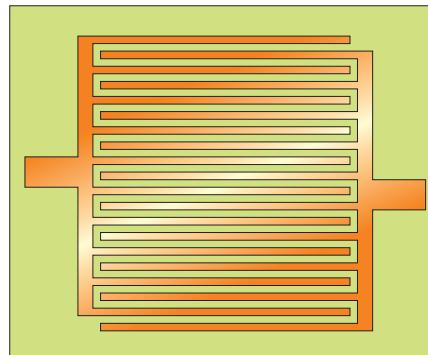
Color Temperature 24.1355
A measure of the energy distribution over the visible spectral range of a light source with a continuous spectrum, expressed in degrees Kelvin (K). (See also "Effective Color Temperature.")

色温 24.1355
衡量连续频谱光源在可见光谱范围内能量分布的量度，用开尔文（K）来表示。(又见“有效色温，Effective Color Temperature”。)

Column Grid Array (CGA) 34.2184
A surface mount package wherein the columns for termination are formed in a grid on the bottom of a package.

柱栅阵列 (CGA) 34.2184
位于封装体底部的柱状端子排成栅格阵列的表面贴装封装。

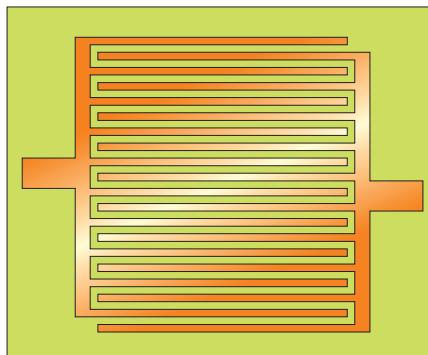
Comb Pattern 22.0227
A set of interdigitated comblike arrays of uniformly-spaced conductors. (See Figure C-8.)



IPC-50h-c-08

Figure C-8 Comb Pattern

梳型电路 22.0227
交错排列的等间距梳状导体。(见图C-8。)



IPC-50h-c-08-cn

图C-8 梳型电路

Combination Mask 47.1631
A type of screen mask that is composed of two areas wherein the one is located in the center of the screen mask and is made by a metal screen mesh with a printing image, and the other is located in the periphery of the screen mask and is made by a thin elastic material.

组合掩模 47.1631
一种由两部分组成的网印掩模：一部分是位于网印掩模中央的带有印刷图形的金属印网，另一部分则是位于印网外围的薄弹性材料。

Comment Record 25.0228
A record that provides, or refers to, additional descriptive material that further clarifies the control of a data set.

注释记录 25.0228
提供或引用附加的描述性材料，以进一步阐明数据设置控制的记录。

Common Cause	91.0229	元器件	30.0236
A source of variation that affects all the individual values of the output of a process.		可执行一定设计功能的单个部件或多个部件的组合。 (又见“分立元器件，Discrete Component”。)	
普遍原因	91.0229	Component Density	22.0237
影响过程输出所有单个值的变异源。		The quantity of components on a unit area of printed board.	
Compensated Artwork	24.0230	元器件密度	22.0237
Production master or artwork data that has been enlarged or reduced in order to meet the needs of subsequent processing requirements.		单位面积印制板上元器件的数量。	
已补偿照相底版	24.0230	Component Hole	20.0238
已经过放大或缩小处理以满足后序加工要求的生产原图或底版数据。		A hole that is used for the attachment and/or electrical connection of component terminations, including pins and wires, to a printed board.	
Compensation Circuit	21.0231	元器件孔	20.0238
An electrical circuit that alters the functioning of another circuit to which it is applied to achieve desired performance.		用于将元器件端子（包括插针和导线）与印制板固定和/或实现电气连接的孔。	
补偿电路	21.0231	Component Lead	30.1356
为了达到所希望的性能，作用于其它电路以改变其功能的电气电路。		The solid or stranded wire or formed conductor that extends from a component to serve as a mechanical or electrical connector, or both. (See also “Component Pin.”)	
Compiler	11.0232	元器件引线	30.1356
A software module that analyzes and converts programs from a high-level language to binary machine codes.		从元器件本体延伸出的单根或多股金属线或成型导体，用于实现机械或电气连接，或机械和电气连接。 (又见“元器件插针，Component Pin”。)	
编译程序	11.0232	Component Mounting	70.0239
对程序进行分析，并将其从高级语言转换为二进制机器码的软件模块。		The act of attaching components to a printed board, the manner in which they are attached, or both.	
Complex Ion	76.0233	元器件安装	70.0239
An ion composed of two or more ions or radicals that are capable of an independent existence.		将元器件固定到印制板上的动作，或元器件在印制板上的固定方式，或兼指二者。	
络离子	76.0233	Component Mounting Orientation	22.1357
由能独立存在的两个或更多离子或根构成的离子。		The direction in which the components on a printed board or other assembly are lined up electrically with respect to the polarity of polarized components, with respect to one another, and/or with respect to the board outline.	
Compliant Bond	74.0235	元器件安装方向	22.1357
A bond that uses an elastically- and/or plastically-deformable member to impart the required energy to the lead.		印制板或其它组件上元器件的（电气）排列方向，通常根据极性元器件的极性、元器件彼此之间的相互关系和/或印制板外形来排列。	
柔性键合	74.0235	Component Mounting Site	70.1632
采用弹性和/或塑料可变形构件将所需能量传给引线的键合。		A location on a Packaging and Interconnecting structure (P&I) that consists of a land pattern and conductor fan-out to additional lands for testing or vias that are associated with the mounting of a single component.	
Component	30.0236		
An individual part or combination of parts that, when together, perform a design function(s). (See also “Discrete Component.”)			

元器件安装位置	70.1632	Compound Die Set	51.1633
封装和互连结构 (P&I) 上的位置，包括一个连接盘图形及伸向测试用附加连接盘的导体输出或与安装单个组件有关的导通孔。		A set consisting of a punch and matching die used to punch holes, details or the outlines of panels and/or printed boards.	
Component Pin	30.0240	组合冲切装置	51.1633
A component lead that is not readily formable without being damaged. (See also "Component Lead.")		包括冲头和冲模的组合冲切装置，用于印制线路板和在制板的冲孔和外形加工。	
元器件插针	30.0240	Compression Seal	36.0243
不损坏就难以变形的元器件引线。(又见“元器件引线，Component Lead”。)		A tight joint made between an component package and its leads that is formed as heated metal cools and shrinks around a glass insulator.	
Component Side	22.0241	收缩密封	36.0243
See "Primary Side."		被加热金属围绕玻璃绝缘体冷却、收缩而形成的元器件封装和引线之间的紧密接合。	
元器件面	22.0241	Computer Numerical Control (CNC)	11.0244
见“主面，Primary Side”。		A system that utilizes a computer and software as the primary numerical control technique. (See also "Numerical Control.")	
Component Thermal Masses	30.1735	计算机数字控制 (CNC)	11.0244
The ability of a part to absorb or retain heat energy, usually relative to its overall size and weight.		利用计算机和软件作为主要数字控制技术的系统。 (又见“数控，Numerical Control”。)	
元器件热容量	30.1735	Computer-Aided Design (CAD)	22.1359
元器件吸收或保持热能的能力，通常与其外形尺寸和重量有关。		The interactive use of computer systems, programs, and procedures in the design process wherein the decision-making activity rests with the human operator and a computer provides the data manipulation function.	
Composite (Phototool)	24.0242	计算机辅助设计 (CAD)	22.1359
A photograph that consists of a combination of two separate (aligned) images.		在设计过程中交互使用计算机系统、程序和作业，其中操作人员作出决定，而计算机提供数据处理功能。	
组合底片 (底片)	24.0242	Computer-Aided Engineering (CAE)	21.1360
由两个单独的(对齐的)图形组合而成的照片。		The interactive use of computer systems, programs, and procedures in an engineering process wherein the decision-making activity rests with the human operator and a computer provides the data manipulation function.	
Composite Record	25.1358	计算机辅助工程 (CAE)	21.1360
A collection of records that make up an electrical pattern that is used repeatedly in a design. (The definition and relationship of such records are covered and referred to as "subroutine definition" and "subroutine definition call.")		在工程过程中交互式使用计算机系统、程序和作业，其中操作人员作出决定，而计算机提供数据处理的功能。	
组合记录	25.1358	Computer-Aided Manufacturing (CAM)	25.1361
一种在设计中重复使用的制作电气图形的记录集合。 (这种记录的定义和相互关系间被称为“子程序定义”及“子程序定义调用”。)		The interactive use of computer systems, programs, and procedures in various phases of a manufacturing process wherein the decision-making activity rests with the human operator and a computer provides the data manipulation functions.	
Composite Test Pattern (CTP)	24.1792		
A grouping of individual test patterns into specific arrangements, to reflect control and precision capability of a manufacturer or manufacturing process.			
组合测试图形 (CTP)	24.1792		
一组特定排列的独立测试图形，反映制造商或制造过程的控制能力和精度。			

计算机辅助制造 (CAM)	25.1361	导电箔	45.0249
在制造过程的各个阶段交互使用计算机系统、程序和作业，其中操作人员作出决定，而计算机提供数据处理的功能。		用来在基材上形成导电图形的金属片。	
Concentration Polarization	54.0245	Conductive Ink	45.2171
That portion of polarization electrode produced by concentration changes at the metal-environment interface.		A low viscosity liquid medium with a suspended powder of an electrically conductive material.	
浓差极化	54.0245	导电墨	45.2171
在金属与环境的界面由于浓度改变而产生的电极的部分极化。		含有导电悬浮粉末的低粘度液态介质。	
Condensation Soldering	75.1681	Conductive Medium	45.2170
See "Vapor Phase Soldering."		A material with a suspended powder of an electrically conductive material. (See also conductive paints, inks, pastes.)	
冷凝焊	75.1681	导电介质	45.2170
见“汽相焊接， Vapor-Phase Soldering”。		含有导电悬浮粉末的材料。(又见导电漆、导电墨及导电膏。)	
Conditional End-of-Test	25.0246	Conductive Paint	45.1636
A command in a test program to stop the execution of the program when a particular condition, or set of conditions, is reached.		A high viscosity liquid medium with a suspended powder of an electrically conductive material.	
有条件测试结束	25.0246	导电涂料	45.1636
测试程序中，当达到一个特定条件或一组条件时，停止执行程序的指令。		含有导电悬浮粉末的高粘度液态介质。	
Conditioning	92.0247	Conductive Paste	45.1637
The time-related exposure of a test specimen to a specified environment(s) prior to or after testing and before evaluation.		A conductive material used to make conductive patterns and through holes on a base material consisting of silver, copper, nickel, carbon, etc. in a cream-like form.	
预处理	92.0247	导电膏	45.1637
在测试前后，以及在评估前，将试样暴露于特定环境下一定时间。		用于在基材上制作导电图形或通孔的膏状导电材料，其导电成份可以是膏状形态的银、铜、镍、碳等。	
Conductance	40.1635	Conductive Pattern	22.1362
A measure of conductivity of a material.		The configuration or design of the conductive material on a base material. (This includes traces, lands, vias, planes, and passive components when these are an integral part of the printed board manufacturing process.)	
电导	40.1635	导电图形	22.1362
材料电导率的量度。		导电材料在基材上的布局或设计。(其中包括线条、连接盘、导通孔、层及在印制板制作中形成的被动(无源)元器件。)	
Conducting Salt	54.0248	Conductivity (Electrical)	40.0250
A salt added to a plating solution in order to increase its conductivity.		The ability of a substance or material to conduct electricity.	
导电盐	54.0248	电导率	40.0250
加入电镀溶液中以增加其电导率的一种盐。		物质或材料导通电流的能力	
Conductive Foil	45.0249	Conductivity (Thermal)	40.2169
A sheet of metal that is used to form a conductive pattern on a base material.		The ability of a substance or material to conduct heat.	

热导率 **40.2169**

物质或材料导热的能力。

Conductor **22.0251**

A single conductive path in a conductive pattern that includes traces, conductive holes, lands, and planes.

导体 **22.0251**

导电图形中的单个导电通道，包括线条、导电孔、连接盘和层。

Conductor Base Spacing **60.0252**

The spacing between conductor at the plane of the surface of a base material. (See also “Design Spacing of Conductors.”) (See Figure C-9.)

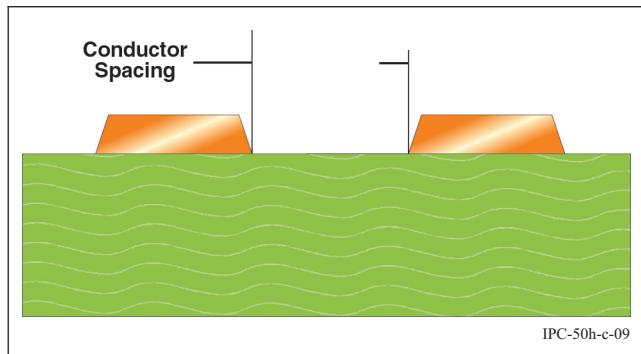
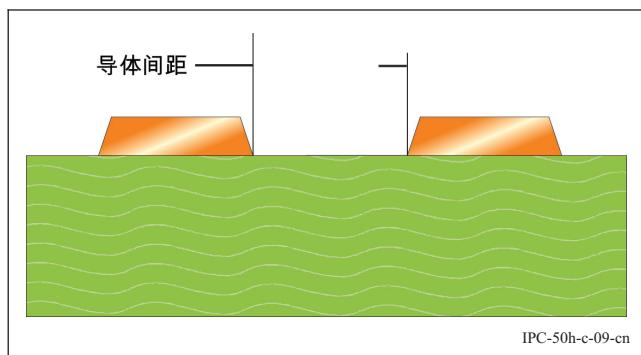


Figure C-9 Conductor Base Spacing

导体底距 **60.0252**

基材表面所位于平面之处导体之间的间距。(又见“导体设计间距, Design Spacing of Conductors”。)(见图C-9。)



图C-9 导体底距

Conductor Base Width **60.0253**

The width of a conductor at the plane of the surface of a base material. (See also “Conductor Width” and “Design Width of Conductors.”)

导体底宽 **60.0253**

基材表面处导线的宽度。(又见“导体宽度, Conductor Width”和“导体设计宽度, Design Width of Conductors”。)

Conductor Layer No. 1 **25.0254**

The first layer of a printed board that has a conductive pattern on or adjacent to its primary side.

第一层导体层 **25.0254**

印制板主面上或邻近主面的第一层导电图形。

Conductor Line **22.0256**

See “Conductor Trace.”

导体线 **22.0256**

见“导体线条, Conductor Trace”。

Conductor Layer **22.0848**

The total conductive pattern formed on one side of a single layer of a base material. (This may include all or a portion of ground and voltage planes.)

导体层 **22.0848**

在基材的单个层的某一面形成全部导电图形。
(可以包括全部或部分的接地层与电源层。)

Conductor Nick **96.1932**

A reduction in a conductor trace cross-sectional area (internal or external) which may or may not expose the base material.

导体缺口 **96.1932**

导体线条横截面面积(内层或外层)的减少，可能会也可能不会暴露基材。

Conductor Path **22.0257**

See “Conductor Trace.”

导体路径 **22.0257**

见“导体线条, Conductor Trace”。

Conductor Pattern **22.0258**

See “Conductive Pattern.”

导体图形 **22.0258**

见“导电图形, Conductive Pattern”。

Conductor Pitch **22.1638**

The distance between the centers of adjacent conductor traces.

导体节距 **22.1638**

相邻导体线条中心之间的距离。

Conductor Protrusion **96.1640**

A random extension of conductor pattern that reduces the conductor spacing below the minimum requirement.

导体突出**96.1640**

导体图形的不规则延伸，导致导体间隔小于最低要求。

Conductor Side**22.0259**

The side of a single-sided printed board that contains the conductive pattern.

导体面**22.0259**

单面印制板上包含导电图形的面。

Conductor Spacing**60.1363**

The observable distance between adjacent edges (not center-to-center spacing) of isolated conductive patterns in a conductor layer. (See Figure C-10.) (See also “Center-to-Center Spacing.”)

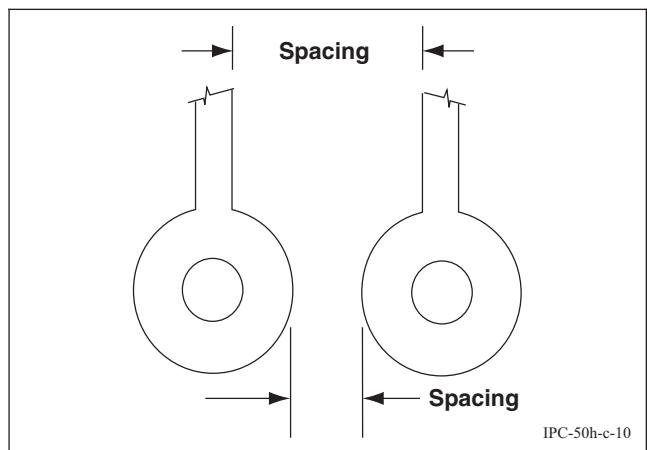
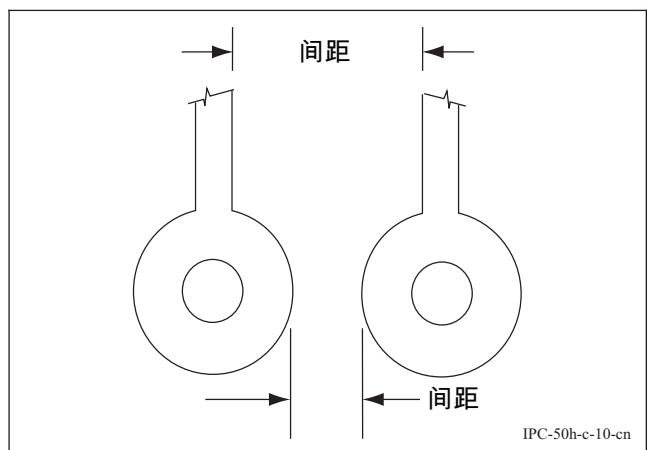


Figure C-10 Conductor Spacing

导体间距**60.1363**

在一个导电层上，孤立导电图形的相邻边缘之间的可见距离（不是中心到中心的距离）。（见图C-10。）
（又见“中心距，Center-to-Center Spacing”。）



图C-10 导体间距

Conductor Thickness**22.1707**

Thickness of a conductor including additional metallic coatings but excluding nonconductive coatings.

导体厚度**22.1707**

包括附加的金属涂覆层在内的导线厚度，但不包含非导电涂层。

Conductor Trace**22.2172**

A single conductive linear entity (element) which has length, width and thickness.

导体线条**22.2172**

具有长度、宽度及厚度的单个导电线状实体（元素）。

Conductor Track**22.0261**

See “Conductor Trace.”

导体路线**22.0261**

见“导体线条，Conductor Trace”。

Conductor Width**60.1364**

The observable width of a conductor trace at any point chosen at random on a printed board as viewed from directly above unless otherwise specified. (See also “Design Width of Conductor Traces or Planes” and “Conductor Base Width.”)

导体宽度**60.1364**

印制板导体线条上随机选取的一点，从其正上方观察到的导体线条宽度，除非另有规定。（又见“导体线条或层的设计宽度，及导体基底宽度”。）

Confidence Interval**94.1365**

The determination, with a specified degree of confidence, as to whether or not a particular characteristic is within ascertained limits of a population.

置信区间**94.1365**

以规定的置信度，确定一个特定的特性是否在总体规定的界限内。

Confirmation Run**94.0262**

A test of the results that are obtained during an experimental design in order to prove if the results are reproducible in an actual application.

确认试验**94.0262**

对实验设计中得到的结果进行测试，以证实这个结果在实际应用中可以再现。

Conformal Coating**76.0263**

An insulating protective covering that conforms to the configuration of the objects coated (e.g., Printed Boards, Printed Board Assembly) providing a protective barrier against deleterious effects from environmental conditions.

敷形涂覆	76.0263	Connector Housing	37.0271
一种绝缘保护涂覆层，其外形与被涂覆的物体（例如印制板、印制板组件）一致，可提供保护隔离层以防止环境条件的有害影响。		A plastic shell that holds electrical contacts in a specific field pattern that may also have polarization/keying bosses or slots.	
Conformance Test Coupon Set	92.1641	连接器外壳	37.0271
A complement of test coupons which are comprised of various coupon types, each of which is designed for a specific test or tests, but which were all made in the same manufacturing lot.		将电接触件以特定形状固定的塑料外壳，也可以有极性/键控凸台或槽。	
符合性测试用的附连板组	92.1641	Connector, One-Part	22.0266
由各种测试图形组成的一整套测试板，每种测试板针对一种具体的测试或测试组，但都是在同一生产批次内制造的。		See “Edge-Board Connector.”	
Conformal Via	22.1644	单件连接器	22.0266
A type of build-up via in which the conductor layer of a uniform thickness is formed conforming to the shape of a hole in the insulating layer.		见“板边连接器，Edge-Board Connector”。	
共形导通孔	22.1644	Connector Tang	37.0272
一种积层法导通孔，可形成与绝缘层中孔的形状一致、厚度均匀的导体层。		That portion of a printed board that mates with an edge-board connector.	
Confounding	94.0264	连接插头	37.0272
A situation whereby certain effects cannot be separated from other effects.		印制板上与板边连接器相配接的部分。	
混淆	94.0264	Connector, Two-Part	22.0267
一些影响不能与其他影响分开的状态。		A connector containing two sets of discretely-formed mating metal contacts.	
Connector	37.0265	双件连接器	22.0267
A device used to provide mechanical connect/disconnect service for electrical terminations.		具有两套分别成形的配接金属接触件的连接器。	
连接器	37.0265	Connector, Two-Part, Printed Board	37.0268
为电气端接点提供机械连接与断开的装置。		A two-part connector wherein at least one set of contacts is mechanically and electrically attached to a printed board.	
Connector Area	22.0269	印制板双件连接器	37.0268
That portion of printed wiring used for the purpose of providing external connections.		一种双件连接器，其中至少一套接触件用作与印制板的机械和电气连接。	
连接器区	22.0269	Constraining Core	44.0273
用于提供外部连接的印制线路部分。		A supporting plane that is internal to a packaging and interconnecting structure.	
Connector Contact	22.0270	抑制芯	44.0273
The conducting member of a connecting device that provides a separable connection.		封装和互连结构内部的支撑面。	
连接器接触件	22.0270	Consumer's Risk	94.0274
提供可分离连接的连接装置的导电部分。		See “Beta Error.”	
		使用方风险	94.0274
		见“β错误，Beta Error”。	
		Contact Angle (Bonding)	74.0275
		The angle between the bonding lead or wire and the bonding land.	

接触角（键合） 74.0275

键合引线之间或金属线与键合连接盘之间的夹角。

Contact Angle (Soldering) 75.1326

The angle of a solder fillet that is enclosed between a plane that is tangent to the solder/basis-metal surface and a plane that is tangent to the solder/air interface. (See Figure C-11.)

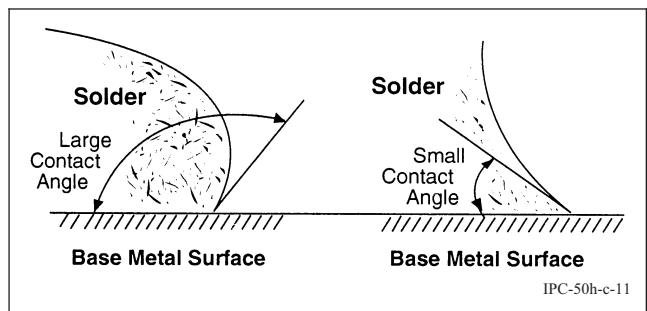
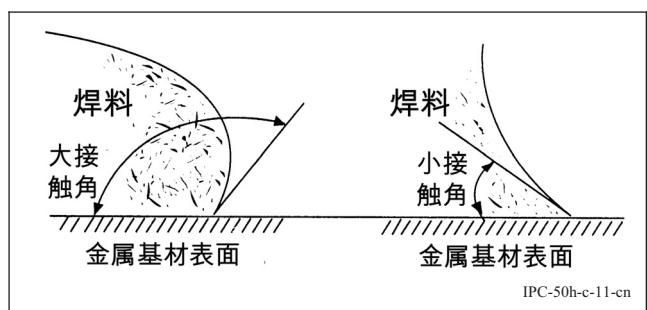


Figure C-11 Soldering Contact Angle

接触角（焊接） 75.1326

焊料/金属基材表面的切面与焊料/空气界面的切面之间形成的焊料填充角。(见图C-11。)



图C-11 Soldering Contact Angle

Contact Area 22.0276

The common area between a conductor and a connector through which the flow of electricity takes place.

接触区 22.0276

电流流经其中的导体与连接器之间的公共区域。

Contact Corrosion 96.0277

See "Crevice Corrosion."

接触腐蚀 96.0277

见“裂隙腐蚀，Crevice Corrosion”。

Contact Length 96.0278

The distance of travel made by a contact in touch with another during the insertion and removal of a connector.

接触长度 96.0278

在插拔连接器时，接触件接触另一个接触件所经过的行程。

Contact Plating

The plating applied to the parts of a printed board that are used as the electrical contact to the circuit outside.

接触镀层

53.1647

涂敷在部分印制线路板上的镀层，用作与外部电路实现电气接触。

Contact Printing

24.1366

A photographic light-exposure process that transfers an image from one base material to the photosensitive surface of another base material while both base materials are in mechanical contact with each other.

接触成像

24.1366

一种照相曝光过程，当两个基材相互接触时，将一个基材上的图像转印到另一个基材的感光面上。

Contact Resistance

70.0279

The electrical resistance of metallic surfaces, under specified conditions, at their interface in the contact area.

接触电阻

70.0279

在规定条件下，金属表面接触区界面处的电阻。

Contact Retention Force

96.0280

The minimum axial load in either direction that a contact withstands while it is in its normal position in a connector insert.

接触保持力

96.0280

接触件插入连接器中正常位置时，轴向两个方向所承受的最小负载。

Contact Spacing

22.0281

See "Pitch."

接触间距

22.0281

见“节距，Pitch”。

Contact Spring

37.0282

The spring member of a socket-type contact that forces the engaging pin-type contact into a position of positive intimate contact.

接触弹簧

37.0282

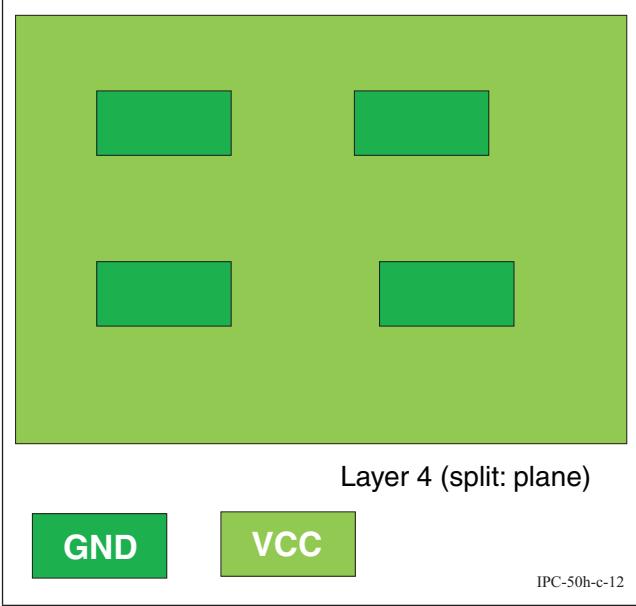
插座型接触件的弹簧部分，可使针型接插件插至可靠紧密接触的位置。

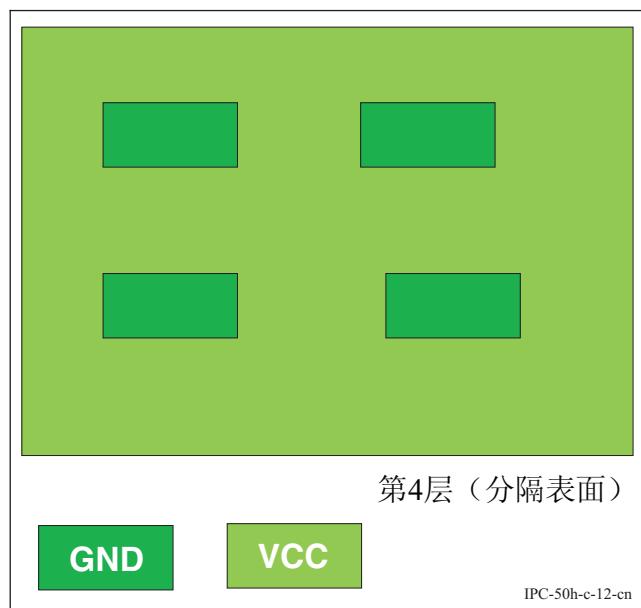
Contained Paste Transfer Head

73.1648

A stencil printer head that holds, in a single replaceable component, the squeegee blades and a pressurized chamber filled with solder paste.

焊膏转移头	73.1648	控制图	22.0287
一种漏印板印刷头，为单个可更换部件，包括刮刀和充满焊膏的加压腔。		见“布设总图，Master Drawing”。	
Contamination Host Material	76.0283	Control Limits	91.0290
The material within which contamination is deposited or entrapped.		The maximum allowable variation of a process characteristic due solely to common causes.	
污染宿主材料	76.0283	控制限	91.0290
沾有或夹带有污染物的材料。		只是由于共同原因引起的过程特性的最大允许变异。	
Continuity	92.0284	Controlled Collapse, Component Connection	75.0289
An uninterrupted path for the flow of electrical current in a circuit.		See “Controlled Collapse Soldering.”	
连通性	92.0284	可控塌落元器件连接	75.0289
电路中电流流动的连续路径。		见“可控塌陷焊接，Controlled Collapse Soldering”。	
Continuity Test	92.1649	Controlled Collapse, Bonding	74.1650
Resistance test to insure all the required points have electrical continuity.		A bonding technique that makes termination by reflowing the solder bump on a chip and connecting it to the land on the printed board.	
连通性测试	92.1649	可控塌落键合	74.1650
电阻测试以确保所有要求的点具有电气连通性。		一种键合技术，通过芯片上焊料凸点的再流形成端接，将其与印制电路板的焊盘连接。	
Contract Services	17.0285	Controlled Collapse, Soldering	75.1651
Printed-board manufacturing processing operations that are performed for or by another vendor outside the manufacturer's facility.		A technique for soldering a component (i.e., flip chip, chip scale package, BGA) to a substrate, where the component connection surface tension forces of the liquid solder supports the weight of the component and controls the height of the joint.	
合同服务	17.0285	可控塌落焊接	75.1651
由或为制造商工厂之外的其他供方进行的印制板制造加工操作。		将元器件（例如倒芯片、芯片规模封装、BGA）焊接到基板的一种技术，连接元器件的熔融焊料的表面张力支撑元器件的重量，并控制焊点的高度。	
Control Chart	91.1368	Convected Energy	75.1736
A graphic representation of a characteristic of a process that shows plotted values of some statistic gathered from characteristic, a central line, and one or two statistically-derived control limits.		Heat transferred through circulation of fluid or gas.	
控制图	91.1368	对流能	75.1736
一种表示工艺特性的图表，显示了收集到的特性的统计数据、一条中心线及一条或两条根据统计得出的控制极限。		通过液体或空气循环而传递的热量。	
Control Console	11.0286	Convection	21.1652
A device terminal used to manipulate and maintain the operating system of a computer.		Heat transfer that occurs at the interface of a solid and a fluid or gas that is due to their differences in temperature.	
操纵台	11.0286	对流	21.1652
用于控制和维护计算机操作系统的设备终端。		在固体与液体或气体的接触面由于温度差异发生的热传递。	
Control Drawing	22.0287	Convection Controlled	21.1653
See “Master Drawing.”		Thermal transfer in which the characteristics, such as flow rate, velocity, and temperature are precisely controlled.	

受控对流	21.1653	Coplanarity	33.1656
特性如流量、速度及温度均被精确控制的热传递。		The distance in height between the lowest and highest leads when the component is in its seating plane.	
Convection Forced	21.1654	共面性	33.1656
Convection that occurs by forcing the fluid over the solid media.		当元器件处于同一个安装平面时，最低引线与最高引线之间在高度上的距离。	
强制对流	21.1654	Copolymerize	49.0847
通过强制流体流过固体介质发生的对流。		The creation of a polymer by the joining of two or more different monomers in repeating chain.	
Conveyor, Edge	70.0291	共聚	49.0847
A transporting mechanism that supports a product by the edges.		以重复链共聚两种或多种不同单体形成聚合物的反应。	
边缘传送带	70.0291	Copper Island	45.2180
通过边缘支撑产品的传送机构。		A piece of copper generated during plane formation that is not connected to power, ground or a signal (active). When the term is used regarding a single layer of data, it may be connected using a via to another layer (see Figure C-12). Several methods of plane generation exist that can generate copper islands.	
Conveyor, Mesh	70.0292	 Layer 4 (split: plane) GND VCC	
A transporting mechanism that fully supports the product.		IPC-50h-c-12	
网状传送带	70.0292		
可支撑整个产品的传送机构。			
Conveyor, Secondary	70.0293		
A transporting mechanism used beneath the edge conveyor to catch a fallen product.			
二级传送带	70.0293		
用于边缘传送带下面以承接跌落产品的传送机构。			
Coldown	75.1655		
The period of time during which the solder joints go through a liquidus phase and become solid.			
冷却	75.1655		
焊点由液相变为固相所经历的时间。			
Coordinatograph	92.0294		
An X- and Y-coordinate plotting and measuring machine.			
坐标仪	92.0294		
X和Y坐标绘制和测量设备。			
Coplanar Leads	33.0295	铜岛	45.2180
The flat beam leads of a component package that have been formed so that they can simultaneously contact one plane of a base material.		面形成期间生成的一片铜，其不与电源、地或信号（主动）连接。对于提供电气数据的单一层，采用该术语时，可采用导通孔使其与另一层连接（见图C-12）。有多种方法可在面形成时生成铜岛。	
共面引线	33.0295	Copper Thickness	41.1657
已成型的元器件封装扁平悬梁式引线，可以同时接触到基材的一个平面。		The thickness dimension of the copper cladding on a base material.	



图C-12 铜岛 (数据)

铜厚 **41.1657**

基材上所覆铜箔的厚度。

Copper Weight **41.1658**

The mass of copper per unit area for a foil, typically expressed in ounces per square foot or grams per square centimeters (these units are not equivalent).

铜重 **41.1658**

单位面积铜箔质量，通常表示为盎司/平方英尺或克/平方厘米。(这些单位不相等。)

Copper-Mirror Test **92.0296**

A test of the corrosivity of a flux on a copper film that is vacuum-deposited on a glass plate.

铜镜测试 **92.0296**

助焊剂对真空沉积至玻璃板上的铜薄膜的腐蚀性测试。

Corner Crack (Knee Crack) **96.1659**

A crack in the plated metal at the knee (the intersection of the hole barrel and the pad or land) of a plated through-hole.

拐角裂纹 **96.1659**

电镀金属在镀覆孔拐角处(孔壁与焊盘或连接盘相交处)的裂纹。

Corner Marks **22.0297**

The marks at the corners of artwork whose inside edges establish, or help to establish, the borders and contour of a printed board.

角标

22.0297

照相底版上拐角处的标记，以其内侧边缘来确定或帮助确定印制板的边界和轮廓。

Coronizing

44.0298

Continuous heat cleaning and weave setting.

高温处理

44.0298

连续热清洗和织物定型。

Corrosion (Chemical/Electrolytic)

76.0299

The attack of chemicals, flux, and flux residues on base metals.

腐蚀 (化学/电解)

76.0299

化学品、助焊剂以及助焊剂残留物对金属基材的侵蚀。

Corrosive Flux

75.0300

Flux that contains levels of halides, amines, or organic acids that cause corrosion of copper.

腐蚀性助焊剂

75.0300

含有一定量的卤化物、胺或有机酸等会腐蚀铜的助焊剂。

Cosine Law (Illumination)

24.1369

A law of illumination that states that the flux radiated or received in a given direction varies with the projected area of the receiver or emitter in a plane that is perpendicular to the direction of the flux.

余弦定律 (照明)

24.1369

说明给定方向上辐射或接受的光通量与垂直于光通方向平面上接受面的投影面积成正比的照明定律。

Cost of Quality

94.0301

The money spent in the creation, control, and evaluation of quality and the consequences of the failure to meet specified requirements.

质量成本

94.0301

为达到指定要求，用于建立、控制和评价质量以及失效后果所需付出的费用。

Coupon

92.0302

See "Test Coupon."

附连板

92.0302

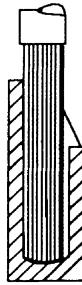
见“附连测试板，Test Coupon”。

Coupon (Breakaway)	92.1220	Cpk Index (Cpk)	91.0307
Coupons made as an integral part of the end product printed board and connected as one piece, except one edge of the coupon has perforations or a thin section connected to the printed board which can be easily broken off without damaging either the coupon or the board.		A measure of the relationship between the scaled distance between the process mean value and the closest specification limit.	
附连板 (可分离)	92.1220	过程能力指数 (Cpk)	91.0307
附连板制成为与成品板连在一起的一部分，但附连板的一个边有邮票孔或较薄部分与成品板相连，可以很容易地分开，对附连板或成品板都不会造成损伤。		过程平均与最接近的规格限之间比例距离关系的量度。	
Covercoat	42.2139	Crack, Foil	90.0308
Material deposited as a liquid onto the circuitry that subsequently becomes a permanent dielectric coating. (See "Cover Material.")		A break or separation that extends partially or completely through a layer of metallic foil.	
覆盖涂层	42.2139	金属箔裂纹	90.0308
涂覆在电路上的液体材料，随后成为一种永久性介电涂层。(见“覆盖材料，Cover Material”。)		部分或全部穿透金属箔层的破裂或分离。	
Coverfilm	42.0303	Crack, Plating	90.0309
Film made from i) a homogeneous, single component; ii) separate layers of generically similar chemistries; or iii) as a composite blend. (See "Cover Material.")		A break or separation that extends partially or completely through a metallic coating(s), its overplate, or both.	
覆盖膜	42.0303	镀层裂纹	90.0309
由i) 单组分均质材料；ii) 类似的化合物独立层；iii) 混合物制成的膜。(见“覆盖材料，Cover Material”。)		部分或全部穿透金属镀层、它的外镀层或二者同时穿透的破裂或分离。	
Overlay	42.0304	Cracking	90.0310
Film and adhesive made from separate layers of generically different chemistries. (See "Cover Material.")		A condition that makes breaks or separations in coatings that extend through to an underlying surface.	
覆盖层	42.0304	裂缝	90.0310
由属性不同的化合物独立层制成的膜和粘合剂。(见“覆盖材料，Cover Material”。)		涂覆层中形成破裂或分离，延伸至底层表面的状况。	
Cover Layer (Discrete Wiring)	64.1660	Cratering (Chip-Out)	95.1663
A polymeric material which is applied to a circuit board over surface wired levels.		A category of ball bond failure in which the ball lifts from the surface of the integrated circuit die bond pad, taking with it a portion of the bond pad metallization and the underlying oxide or silicon.	
覆盖层 (分立导线)	64.1660	陷坑	95.1663
涂覆在电路板表面的布线上的聚合材料。		一种球形键合失效，焊球从集成电路芯片键合焊盘上翘起，附带了一部分键合焊盘金属层和下面的氧化物或硅。	
Cover Material	42.2179	Cratering (Wire Bonding)	74.0311
A thin dielectric material used to encapsulate circuitry, most commonly for flexible circuit applications.		A defect in which a portion under a die is torn loose by an excessive amount of ultrasonic wire-bonding energy.	
覆盖材料	42.2179	陷坑 (金属线键合)	74.0311
用于包封电路的薄的介电材料，最常用于挠性电路。		芯片底部的局部因过量的超声金属线键合能量而被撕开变松的缺陷。	

Crazing (Base Material)	51.0312	抗蠕变保持力 (压敏胶带)	46.1869
An internal condition that occurs in reinforced laminate base material whereby glass fibers are separated from the resin at the weave intersections. (This condition manifests itself in the form of connected white spots or crosses that are below the surface of the base material.) It is usually related to mechanically-induced stress. (See "Measling.")		压敏胶带抵抗作用于同一背撑面的静态剪切力的能力。	
微裂纹 (基材)	51.0312	Creepage Distance	21.2080
发生于增强的层压板基板内部的一种状况。在织物交织处玻璃纤维与树脂分离。(此现象表现为在基材表面下出现的白色斑点或交叉。)这种现象通常与机械应力有关。(又见“白斑，Measling”。)		The shortest path between two conductors, which includes traces, terminals and structures, measured along the surface of the insulation.	
Crazing (Conformal or Solder Mask Coating)	76.0313	爬电距离	21.2080
A network of fine cracks on the surface of or within the coating.		沿绝缘表面测量所得的两个导体(包括导线、接线柱及结构件)之间的最短路径。	
微裂纹 (敷形涂覆或阻焊膜涂层)	76.0313	Crevice Corrosion	97.0317
涂覆层表面或内部细小的网状裂纹。		Localized corrosion that is the result of the formation of a crevice between a metal and a nonmetal, or between two metal surfaces.	
Crease	92.0314	裂隙腐蚀	97.0317
A ridge in a material that is caused by a fold or wrinkle being placed under pressure.		由于在金属和非金属表面间或两种金属表面间形成裂隙而引起的局部腐蚀。	
褶痕	92.0314	Crimp Contact	37.0318
材料由于受压时折叠或皱褶所形成的皱纹。		A type of connector contact whose nonmating end is a hollow cylinder that can be crimped onto a wire inserted within it.	
Creel	44.0315	压接接触件	37.0318
A device used as a yarn package rack to hold warp ends for a section beam.		其非配接端是一个中空圆柱的连接器接触件，可以将其压接到插入的导线上。	
经轴架	44.0315	Critical Current Density	53.0319
放置筒子纱的装置，用来夹持送往分经轴上的经纱。		The current density above which a new and sometimes undesirable reaction occurs.	
Creep	40.0316	临界电流密度	53.0319
Time-dependent strain occurring under stress.		高于此电流密度时，会发生新的有时是不希望的反应。	
蠕变	40.0316	Critical Defect	94.0320
在应力作用下所产生的与时间有关的应变。		Any anomaly specified as being unacceptable.	
Creep Endurance	40.1661	致命缺陷	94.0320
Resistance against a time dependent strain occurring under stress on a material.		任何被规定为不可接受的异常。	
耐蠕变性	40.1661	Critical Humidity	76.1371
材料抵抗应力作用下产生与时间有关的应变的能力。		The relative humidity above which the atmospheric corrosion rate of a given metal increases sharply or above which the insulation decreases sharply.	
Creep Resistant Holding Power (Pressure Sensitive Tape)	46.1869	临界湿度	76.1371
The ability of a pressure sensitive adhesive tape to resist static forces of shear applied the same plane as the backing.		高于此相对湿度时，大气对特定金属的腐蚀率会急剧增加，或绝缘性能会急剧下降。	

Critical Operation	91.0321	开窗口	22.0325
One procedure of a total process that has a significant impact on the characteristics of the completed product.		在导电材料上用空格图形分割大面积导电区域。(见图C-13。)	
关键操作	91.0321		
整体过程中对成品特性有显著影响的一个步骤。			
Critical Solution Temperature	76.0322		
The temperature above or below which two liquids are miscible in all proportions.			
临界溶液温度	76.0322		
高于或低于此温度时，两种液体可以按任何比例混合。			
Crop Marks	22.0323		
See "Corner Marks."			
剪切标记	22.0323		
见“角标， Corner Marks”。			
Cross-Over (Discrete Wiring)	64.1662		
A point where tow or more discrete insulated wires intersect and cross each other.			
交叉（分离布线）	64.1662		
两条或更多的分离绝缘导线相互交叉的点。			
Cross-Sectioning	92.0324		
See "Microsectioning."			
剖切	92.0324		
见“显微剖切， Microsectioning”。			
Crosshatching	22.0325		
The breaking up of large conductive areas by the use of a pattern of voids in the conductive material. (See Figure C-13.)			
	IPC-50h-c-13		IPC-50h-c-13-cn
		图C-13 开窗口	
Crossing Count		22.1372	
The unit for measuring optimum component placement characteristics that is based on the number of times there are crossovers of the signal conductor that are used to provide electrical interconnection between devices.			
交叉数		22.1372	
以器件之间提供电气互连的信号导体的交叉次数为基础的衡量元器件最佳布局的指标。			
Crosslink		40.0326	
The formation of chemical bonds between molecules in a thermosetting resin.			
交联		40.0326	
在热固性树脂中分子之间形成的化学键。			
Crosstalk		21.0327	
The undesirable interference caused by the coupling of energy between signal paths. (See also "Backward Crosstalk" and "Forward Crosstalk".)			
串扰		21.0327	
由于信号通道之间能量耦合所产生的不希望的干扰。(又见“反向串扰， Backward Crosstalk”和“正向串扰， Forward Crosstalk”。)			
Crystalline Polymer		40.0328	
A polymer with a regular, structured molecular configuration.			
晶体聚合物		40.0328	
一种具有规则结构分子形状的聚合物。			
Cubic Components		30.1737	
A part with a three-dimensional shape having the form of a cube.			

Figure C-13 Crosshatching

立方体元器件	30.1737	Cupping (BGA)	34.2141	
一种具有三维外形立方体形状的元器件。			A condition of a ball grid array (BGA) package after reflow where the corners turn up and away from the printed board laminate surface. This condition in the worse case causes the balls on the outside row to be in tension and the balls in the center to be in compression. (Opposite of "Doming (BGA).")	
Cumulative Tolerance	22.1373	杯形 (BGA)	34.2141	
The summation of the tolerances that are permitted between functionally-related features. (See also "Baseline Dimensioning," "Basic Dimension," "Chain Dimensioning" and "Direct Dimensioning.")			再流焊后, 球栅阵列 (BGA) 封装角部位向上翻起, 远离印制板表面。严重时会造成外围的焊料球被拉伸, 而中心部分的焊料球被挤压。(与“拱形 (BGA), Doming (BGA)”相反的状况。)	
累积公差	22.1373	Cure	56.0330	
功能相关的要素之间允许的公差总和。(又见“基线尺寸标注, Baseline Dimensioning”、“基准尺寸标注, Basic Dimensioning”、“链式尺寸标注, Chain Dimensioning”及“直接尺寸标注, Direct Dimensioning”。)			A chemical reaction that changes the physical properties of a substance, e.g., an adhesive.	
Cup Solder Terminal	37.0329	固化	56.0330	
A cylindrical solder terminal with a hollow opening into which one or more wires are placed prior to soldering. (See Figure C-14.)			改变物质(例如粘接剂)物理特性的化学反应。	
		Cure Time	56.0331	
		The time at which ultimate physical properties of a curing thermosetting plastic composition are reached.		
Single Wire Fill	Multiple Wire Fill	固化时间	56.0331	
IPC-50h-c-14			固化中热固性塑性组份达到最终物理性能所需时间。	
Figure C-14 Cup Solder Terminal		Curing Agent	56.0332	
焊锡杯		A chemical substance that can react with a resin in order to physically harden the resin.		
有中空开口的圆筒形焊接接线柱, 焊接前一根或多根导线可放于中空开口内。(见图C-14。)				
		固化剂	56.0332	
		能与树脂反应, 使树脂物理硬化的化学物质。		
单股线填充	多股线填充	Current	21.1795	
IPC-50h-c-14-cn			The flow or movement of electrons in a conductor as the result of a voltage difference between the ends of the conductive path.	
图C-14 焊锡杯		电流	21.1795	
由于导电通路两端的电压差, 导致电子在导体中流动或移动。				
图C-14 焊锡杯		Current-Carrying Capacity	21.1374	
The maximum electrical current that can be carried continuously by a conductor, under specified conditions, without causing objectionable degradation of electrical and mechanical properties of the product.				
图C-14 焊锡杯		载流量	21.1374	
在规定条件下, 一个导体能够连续地承载, 而不会造成产品的电气和机械性能明显降低的最大电流。				

Customer Detail Specification (CDS)	26.1779	D曲线	24.0347
A document that establishes the specific requirements, noted in a detailed specification, in order to tailor these to meet the needs of a custom product, material, or service.		见“特性曲线，Characteristic Curve”。	
客户详细规范 (CDS)	26.1779	Damage	94.1665
为满足定制的产品、材料或服务的需要，建立具体要求并在详细规范中注明的文件。		The result of an event that degrades a product, e.g., component, printed board, module, etc., beyond the form, fit and function limits of the governing document.	
Customer Test Data	92.1664	损坏	94.1665
Normal performance data generated at incoming inspection by the customer.		导致产品（例如元器件、印制板、模块等）受到损害，超出有关控制文件规定的形状、配合和功能要求的一个事件的结果。	
客户测试数据	92.1664	Dambar	36.1666
用户在来料检验时所产生的常规性能数据。		A portion of the lead frame that prevents mold compound from flowing to the end of the lead frame.	
Cusum Chart	91.0333	挡条	36.1666
A diagram that depicts cumulative deviation from a target.		引线框架的一部分，可阻止封装料流向引线框架的末端。	
累积和图	91.0333	Data Capture	25.0340
描述对目标值的累积偏差的图表。		The automatic collection of information from a given machine or other information source.	
Cut-and-Peel	24.0334	数据获取	25.0340
See “Cut-and-Strip.”		从给定的设备或其它的信息来源自动收集信息。	
切割剥离	24.0334	Data File	11.0341
见“切割剥除，Cut-and-Strip”。		A database organized in a specific manner for a specific application.	
Cut-and-Strip	24.0335	数据文件	11.0341
The making of artwork by cutting a pattern in a resist and stripping away the unwanted areas or resist.		为特定的应用以特定的方式构成的数据库。	
切割剥除	24.0335	Data Layer	25.0342
制作照相底图的方法，在抗蚀膜上切割图形，并将不需要的区域或抗蚀膜剥除。		A specific group of related records that are within any individual data-information module.	
Cut-Off	74.0336	数据层	25.0342
The operation that follows the final bonding step that separates the bond from the source of the wire.		位于任何单独数据信息模块内的一组特定的相关记录。	
切断	74.0336	Data Logging	11.0343
在键合的最后一道工序之后，将键合点与键合金属线分离的操作。		The ability of a host computer or test analyzer to store analyzed data along with statistical data.	
Cylindrical Components	30.1738	数据记录	11.0343
A part having the shape of a cylinder.		计算机主机或测试分析仪存储已分析数据与统计数据的能力。	
圆柱形元器件	30.1738	Data-Entry Device	25.0337
具有圆柱形状的元器件。		A device terminal used to enter information into a computer system. (See also “Control Console.”)	
D			
D Curve	24.0347		
See “Characteristic Curve.”			

数据输入设备	25.0337	Datum Reference	22.0346
用于向计算机系统输入信息的设备终端。(又见“操作台, Control Console”。)		A defined point, line or plane that is used to locate a pattern or layer for manufacturing purposes, inspection purposes, or both.	
Data-Information Module (DIM)	25.0338	基准参考	22.0346
A group of records that contain related data that describe a specific function or task.		为了制造、检验, 用于定位图形或层的规定点、线或面。	
数据信息模块 (DIM)	25.0338	Datum Target	22.1668
包含描述特定功能或任务的相关数据的一组记录。		A specified point or area on a printed board used to establish a datum.	
Database	11.0339	基准目标	22.1668
A comprehensive collection of information that is so structured that some or all of its data may be used to create queries about related items contained within it.		印制板上用于建立基准的规定点或区域。	
数据库	11.0339	Daughter Board	81.1669
信息的全面集合, 其结构是使其中部分或全部数据可以从其有关所含项目进行查询。		A printed board that is fastened to a mother board and electrically connected.	
Date Code	30.1739	子板	81.1669
Marking of products to indicate their date of manufacture.		固定于母板上并与之实现电气连接的印制板。	
日期码	30.1739	Decomposition Temperature (TD)	55.2085
显示产品制造日期的标志。		The temperature at which a base laminate material experiences an established percentage of weight loss using Thermogravimetric Analysis (TGA).	
Datum	22.0344	分解温度 (TD)	55.2085
The theoretically-exact point, axis or plane that is the origin from which the location of geometric characteristics of features of a part are established.		采用热重分析法使层压板基材的重量损失达到规定百分比时的温度。	
基准	22.0344	Decoupling	21.1375
以理论上准确的点、线或面为原点, 由此建立零件要素几何特征的位置。		The absorbing of noise pulses in power supply lines, that was generated by switching logic devices, so as to prevent the lines from disturbing other logic devices in the same power-supply circuit.	
Datum Axis	22.1667	退耦	21.1375
The theoretical axis derived from the true geometric counterpart of a specified feature (i.e., tooling hole, fiducial) as established by the extremities of contacting points of the actual datum feature.		In power supply circuits, absorbing noise pulses generated by switching logic devices, so as to prevent the lines from disturbing other logic devices in the same power-supply circuit.	
基准轴	22.1667	Defect	90.0348
由表示具体要素(例如: 定位孔、基准)的实际几何对应物导出的理论轴, 是通过实际基准要素的接触点端部确定的。		Nonfulfillment of a requirement related to an intended or specified use.	
Datum Feature	22.0345	缺陷	90.0348
An actual feature of a part that is used to establish a datum.		无法满足预期或规定使用要求的情况。	
基准要素	22.0345	Defect Identification	90.0349
用于建立基准的部件实际要素。		The provision for recording the location of a detected anomaly.	
		缺陷标识	90.0349
		记录已检出异常的位置的规定。	

Definition	52.1701	Dendritic Growth	90.0353
Degree of conformity of the pattern edges with the production master.		Metallic filaments that grow between conductors in the presence of condensed moisture and an electric bias. (See also "Whiskers.")	
逼真度	52.1701	树枝状生长	90.0353
图形边缘与生产底版的一致程度。		有冷凝湿气及存在电偏压时，导体间生长的金属细丝。(又见“晶须， Whiskers”。)	
Definition (Phototool)	24.0350	Dendritic Migration	90.0354
The clarity of detail in an optically-produced image.		Migration that proceeds through an insulator in a "treeing" fashion.	
清晰度（底片）	24.0350	树枝状迁移	90.0354
光学形成的图像细节的清晰程度。		以“树枝状结晶”形式发生的穿过绝缘体的迁移。	
Degradation	90.0351	Denier	44.0355
A decrease in the performance characteristics or service life of a product.		The weight, in grams, of 9000 meters of fiber, filament or yarn.	
退化	90.0351	丹尼尔	44.0355
产品的性能特性或服务寿命的减少。		长度为9000米的纤维、细线或纱的重量，以克为单位。	
Degrees of Freedom (df)	94.0352	Densitometer	24.0356
The number of comparisons that are available in order to learn about an event.		An instrument that is used to measure the amount of light that has been absorbed by a photographic film.	
自由度 (df)	94.0352	显像密度计	24.0356
为了了解一个事件，所能得到的比较量的数目。		用于测量被照相底片所吸收光的量的仪器。	
Delamination	55.1376	Density (Material)	40.1675
A separation between plies within a base material, between a base material and a conductive foil, or any other planar separation within a printed board. (See also "Blister.")		The mass of a substance per unit volume.	
分层	55.1376	密度（材料）	40.1675
印制板上绝缘基材层间、基材与导电箔间或内部任何平面间的分离现象。(又见“起泡， Blister”。)		物质单位体积的质量。	
Delivered Panel (DP)	50.1788	Density (Phototool)	24.0357
A production or prototype panel, or portion of either, intended to contain one or more printed boards in a specific arrangement or cluster, in order to facilitate economic assembly and testing in the next level of manufacturing. (See also "Pallet (Printed Board).")		The logarithm of the value of opacity.	
交付拼板 (DP)	50.1788	光密度（底片）	24.0357
生产拼板或原型拼板，或其中一种的一部分，设计含有以特定形式排列的一组一种或多种印制板，以便在下一级生产中降低组装与测试成本。(又见“托盘 (印制板)， Pallet (Printed Board)”。)		遮光率的对数。	
Delivery Inspection	92.1670	Dent	45.0358
See "Final Inspection."		A smooth depression in conductive foil that does not significantly reduce the foil's thickness.	
交付检验	92.1670	压痕	45.0358
见“最终检验， Final Inspection”。		箔厚度未明显减少的导电箔内的平滑凹陷。	
Dentrices		Dentrices	90.0359
		See "Dendritic Migration."	
树枝状物		树枝状物	90.0359
		见“树枝状迁移， Dendritic Migration”。	

Dependent of Feature Size	22.0360	Design Rule	22.0363
The concept that permits tolerances of form or position to vary in proportion to, and dependent on, a feature's size.		Guidelines that determine automatic conductor routing behavior with respect to specified design parameters.	
要素尺寸相关原则	22.0360	设计规则	22.0363
允许外形或定位公差与要素尺寸成比例变化，即其取决于要素尺寸的概念。		根据特定设计参数确定导体自动布设过程的准则。	
Depth of Field (Optical)	24.0361	Design-Rule Checking	22.0362
The range of distances along the axis of an optical instrument, usually a camera lens, through which an object will produce a relatively distinct image.		The use of a computer-aided design program to perform continuity verification of all conductor routing in accordance with appropriate design rules.	
景深（光学）	24.0361	设计规则检查	22.0362
为使物体保持相对清晰的图像，沿光学仪器的（通常指照相机镜头）轴向的距离范围。		使用计算机辅助设计程序，按照适当的设计规则，对所有导体布线的连通性进行验证。	
Desiccant	30.1679	Desmear	57.0366
An absorbent material used to maintain a low relative humidity.		The removal of friction-melted resin and drilling debris from a hole wall.	
干燥剂	30.1679	去钻污	57.0366
用于维持低相对湿度的吸收材料。		去除孔壁上的摩擦熔融树脂和钻屑。	
Design Automation	20.1377	Destructive Physical Analysis (DPA)	92.1680
The use of computer systems, programs, and procedures in the design process wherein, the computer is responsible for the decision-making activity and data manipulation function.		A process of determination of device construction or failure modes.	
设计自动化	20.1377	破坏性物理分析 (DPA)	92.1680
设计过程中计算机系统、程序及步骤的使用，由计算机负责决策行为及数据处理功能。		确定元器件结构或失效模式的过程。	
Design Spacing of Conductor Traces or Planes	22.0364	Detail Specification	26.1740
The spacing between conductors as delineated or otherwise noted on the master drawing. (See also "Conductor Base Spacing.")		A detailed written description of a part or a process.	
导体线条或导体面的设计间距	22.0364	详细规范	26.1740
布设总图上绘制或注明的相邻导体之间的距离(又见“导体基底间距，Conductor Base Spacing”。)		对一个零件或一个过程的书面详细描述。	
Design Width of Conductor Trace or Plane	22.0365	Detailed Specification (DS)	26.1781
The width of conductors as delineated or otherwise noted on the master drawing. (See also "Conductor Base Width" and "Conductor Width.")		A document that describes the exact requirements for a specific product, material, or service.	
导体线条或导体面的设计宽度	22.0365	详细规范 (DS)	26.1781
布设总图上绘制或注明的导体宽度(又见“导体基底宽度，Conductor Base Width”和“导体宽度，Conductor Width”。)		描述特定产品、材料或服务精确要求的文件。	
Detection		Detection	91.0367
		A strategy that attempts to identify and separate acceptable and unacceptable outputs from a process.	
检测		检测	91.0367
		力图识别和区分一个过程的可接受输出与不可接受输出的策略。	
Developing (Phototool)		Developing (Phototool)	24.0368
		The chemical treatment of radiation-modified photosensitive material in order to produce an image.	

显影 (底片)

24.0368

对已感光的光敏材料进行的化学处理以显出影像。

Development (Resist)

52.1682

The process of exposing a photoresist to a chemical solution which dissolves unwanted material and without affecting wanted material. The standard method of distinguishing between wanted and unwanted material is by polymerizing the resist so as to make it less soluble in the development solvent.

显影 (抗蚀剂)

52.1682

将光致抗蚀剂暴露于化学溶液中，溶解不需要的材料，保留需要的材料的工艺过程。区别需要及不需要材料的标准方法是让抗蚀剂聚合，使其在显影溶剂中不易溶解。

Device

30.0369

An individual electrical circuit element that cannot be further reduced without destroying its stated function.

器件

30.0369

一个独立的电路元器件，如不损坏其原有功能则无法再作分割。

Dewetting

97.0370

A condition that results when molten solder coats a surface and then recedes to leave irregularly-shaped mounds of solder that are separated by areas that are covered with a thin film of solder and with the basis metal not exposed. (See Figure D-1.)

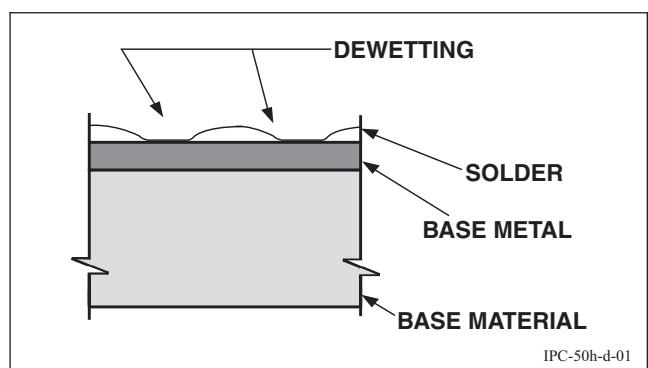


Figure D-1 Dewetting

退润湿

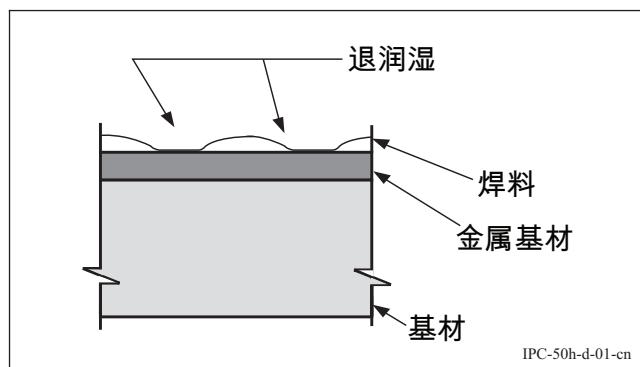
97.0370

熔融焊料涂覆在金属表面上然后焊料回缩，导致形成由焊料薄膜覆盖且未暴露金属基材的区域分隔开的不规则焊料堆的一种状况。(见图D-1。)

Dewetting (Base Materials)

40.1684

A loss or reduction of resin coverage from localized or large areas of reinforcement.



图D-1 退润湿

半润湿 (基材)

40.1684

局部或大面积的增强材料所涂覆树脂的缺失或减少。

Diazo Material

24.0371

A nonsilver, room-light handling, ultraviolet-sensitive material, used as a coating film for creating phototools.

重氮材料

24.0371

不含银盐且可在室内光线下处置的紫外光敏感材料，可用作生成底片的涂层膜。

Dibasic Acid

76.0372

An acid containing two atoms of acidic hydrogen in a molecule.

二元酸

76.0372

一个分子中含有两个酸性氢原子的一种酸。

Dice

35.0373

Two or more die.

芯片群

35.0373

两个或多个芯片。

Dicing

35.1685

The separating of semiconductor wafers into individual die.

切片

35.1685

将半导体晶圆分割成单个芯片。

Dicyandiamide

41.0374

A solid curing agent for epoxy resins.

双氰胺

41.0374

环氧树脂用固体固化剂。

Die

35.0375

The uncased and normally leadless form of an electronic component that is either active or passive, discrete or integrated. (See also "Dice.")

芯片	35.0375	Dielectric	40.0377
无外壳的电子元器件，通常为无引线形式，可以是有源的或无源的，分立的或集成的。(又见“芯片群，Dice”。)		A material with a high resistance to the flow of direct current, and which is capable of being polarized by an electrical field.	
Die Attached Pad	35.1688	电介质	40.0377
See “Die Pad.”		对直流电流有高阻抗，且能够被电场极化的材料。	
芯片连接盘	35.1688	Dielectric Breakdown	21.1378
见“芯片焊盘， Die Pad”。		The complete failure of a dielectric material that is characterized by a disruptive electrical discharge through the material that is due to deterioration of material or due to an excessive sudden increase in applied voltage.	
Die Bonding	74.0376	介电击穿	21.1378
The attachment of a die to base material.		由于材料老化或施加的电压过度骤增而引起绝缘材料的完全失效，表现为贯穿材料的击穿放电。	
芯片键合	74.0376	Dielectric Constant	21.1379
将芯片连接到基材上。		The ratio of the capacitance of a configuration of electrodes with a specific material as the dielectric between them to the capacitance of the same electrode configuration with a vacuum or air as the dielectric. See “Permittivity.”	
Die Mount Pad	35.1689	介电常数	21.1379
See “Die Pad.”		规定结构的电极间，以某种材料作为介质时的电容量与相同结构电极间以真空或空气作介质时的电容量之比。(又见“电容率， Permittivity”。)	
芯片安装盘	35.1689	Dielectric Fluid	21.0378
见“芯片焊盘， Die Pad”。		A fluid that has excellent dielectric strength, excellent volume resistivity, a low dielectric constant, and a low dissipation factor.	
Die Pad	35.1687	绝缘液	21.0378
A land on which the integrated circuit die is mounted during the assembly process.		具有极佳介电强度、极佳体积电阻率、低介电常数及低损耗因数的液体。	
芯片焊盘	35.1687	Dielectric Strength	21.1380
组装过程中集成电路芯片贴装在其上的连接盘。		The maximum voltage that a dielectric can withstand under specified conditions without resulting in a voltage breakdown, usually expressed as volts per unit dimension.	
Die Paddle	35.1686	介电强度	21.1380
The central portion of the lead frame on which the die and adhesive are placed during the attachment process.		介电质在规定条件下能承受且不会造成电压击穿的最大电压，通常以每单位面积上的伏特表示。	
芯片座	35.1686	Differential Etching	54.1692
引线框架的中心部分，连接过程中粘接剂和芯片放置于其上。		The process of removing copper from a conductive pattern that has been plated on a starting thin copper foil such that the portions of the thin starting foil are completely removed and the thicker plated portions are slightly reduced by the etchant.	
Die Shrink	35.1690		
Method of reducing silicon area used for the same circuitry by reducing layout feature size by a common percentage for all levels.			
芯片缩小	35.1690		
通过按照相同比例减小同一电路各层布局要素尺寸的大小，减小同一电路所用硅片面积的方法。			
Die Stamping (Conductor)	53.1691		
A process to make a conductive circuit in which the patterns are stamped out of a metal sheet.			
模具压印法（导体）	53.1691		
制造导电电路的一种工艺，导电图形是从金属薄片上冲压出来的。			

差分蚀刻法	54.1692	尺寸孔	22.0382
一种从导电图形上除去铜的过程。因导电图形的原有薄铜箔已被电镀增厚，以致在蚀刻过程中，原有的薄铜箔部分被完全除去，而电镀增厚的导电图形部分蚀刻后稍微减薄。		印制板中由物理尺寸或坐标值确定位置的孔，它不必与规定的网格重合。	
Diffusion Bond	74.0379	Dimorphism	40.0383
A bond formed in the absence of any liquid phase at any time prior to or during the joining process.		The existence of a substance in two different crystalline forms.	
扩散键合	74.0379	双晶现象	40.0383
在键合工艺前或键合工艺中任何时间均无液相所形成的键合。		物质结构中存在两种不同晶形。	
Digital Circuit	21.0380	Dip Soldering	75.1382
An electrical circuit that provides two (binary) or three distinct relationships (states) between its input and output.		The making of soldered terminations simultaneously by bringing the solder side of a printed board with through-hole mounted components into contact with the surface of a static pool of molten solder. (See also "Drag Soldering.")	
数字电路	21.0380	浸焊	75.1382
在其输入与输出间提供两种(二进制)或三种明显关系(状态)的电路。		将装有通孔插装器件的印制板焊接面与静止的熔融焊料槽表面接触，同时形成焊接端接。(又见“拖焊，Drag Soldering”。)	
Digitizing (CAD)	25.0381	Diphase Cleaning	76.0384
The converting of feature locations on a flat plane to its digital representation in X-Y coordinates.		Cleaning by means of solutions that contain a solvent layer and an aqueous layer.	
数字化 (CAD)	25.0381	双相清洗	76.0384
将平面上的要素位置转换成用X-Y坐标数字表示。		利用含有溶剂层及水层的溶液进行清洗。	
Dilution Ratio	76.1221	Dipole (Electronic)	21.0385
The maximum number of unit volumes of hydrocarbons that can be added per unit volume of active solvent in order to cause the first trace of gelation to occur when the concentration of nitrocellulose in the solution is 8-grams per 100-milliliters.		An assemblage of atoms or subatomic particles, separated by a finite distance, that have equal electric charges of opposite sign.	
稀释比	76.1221	偶极 (电子)	21.0385
当溶液中硝化纤维素的浓度为8g / 100ml时，为了产生最初的胶凝迹象，每单位体积活性溶剂中可以加入烃的最大单位体积数。		电荷相等但电性相反且相隔一定距离的原子或亚原子粒子集合。	
Dimensional Stability	21.1381	Dipole Moment	21.1383
A measure of the dimensional change of material that is caused by factors such as temperature changes, humidity changes, chemical treatment (aging), and stress exposure.		Molecules in which the atoms, their electrons, and their nuclei, are so arranged that one part of the molecule has a positive electrical charge while the other part is negatively charged	
尺寸稳定性	21.1381	偶极矩	21.1383
由于温度变化、湿度变化、化学处理(老化)及经受的应力等因素导致的材料尺寸变化的量度。		分子中原子、电子及其原子核的排列方式，使分子的一部分具有正电荷，而另一部分具有负电荷。	
Dimensioned Hole	22.0382	Direct Cleaning	76.0386
A hole in a printed board whose location is determined by physical dimensions or coordinate values that do not necessarily coincide with the stated grid.		See "Cathodic Cleaning."	
		直接清洗	76.0386
		见“阴极清洗，Cathodic Cleaning”。	

Direct Current (DC)	21.1796	Discrete Wiring Board Assembly	64.0391
A current produced by a voltage source that does not vary with time and is normally provided by power supplies, transformers or batteries to power electronic circuits.		An assembly that uses a discrete wiring board for component mounting and interconnecting purposes.	
直流电 (DC)	21.1796	分立布线板组件	64.0391
由电压源产生的不随时间变化的电流，通常由电源、变压器或电池向电子电路供电。		用分立布线板实现元器件安装及互连的组件。	
Direct Current Cleaning	76.0387	Dispersant (Organosol)	41.0393
See "Cathodic Cleaning."		A liquid component that has a solvating or peptizing action on a resin so as to aid in dispersing and spreading it.	
直流电清洗	76.0387	分散剂 (有机溶剂)	41.0393
见“阴极清洗， Cathodic Cleaning”。		对树脂有溶解或胶溶作用的液体组分，以帮助分散及涂布树脂。	
Direct Dimensioning	22.0388	Disperse Phase (Suspension)	41.0394
The maximum variation between two features that is controlled by the tolerance on the dimension between the features.		The particles of solid material dispersed in a liquid medium.	
直接尺寸标注	22.0388	分散相 (悬浮)	41.0394
由两要素间尺寸公差所控制的两要素间最大变差。		分散在液体介质中的固体材料颗粒。	
Discrepant Material	92.0389	Dispersing Agent	41.0395
Material that does not conform to specification.		A surface-active agent added to a suspending medium to promote uniform separation of extremely-fine solid particles.	
不合格材料	92.0389	分散剂	41.0395
不符合规范的材料。		加在悬浮介质中以促进超细固体颗粒的均匀分散的表面活性剂。	
Discrete Component	30.0392	Disposition (Defects)	91.1694
A separate part of a printed board assembly that performs a circuit function, e.g., a resistor, a capacitor, a transistor, etc.		The determination of how defects should be treated. Dispositions include, but are not limited to, rework, use as is, scrap or repair.	
分立元器件	30.0392	处置 (缺陷)	91.1694
印制板组件中执行一项电路功能的独立部件，如电阻、电容、晶体管。		如何处理缺陷的决定。处置包括但并不只限于返工、照样使用、报废或维修。	
Discrete Wiring	64.1693	Dissipation Factor	21.0396
A conductive pattern established by techniques other than printing, plating, and/or etching, that provides point-to-point connections in a predetermined arrangement on a common base.		The ratio of loss current to charging current. The dissipation factor or loss tangent, $\tan\delta$, is given by ϵ_0/ϵ_N , where ϵ_N and ϵ_0 are the real and imaginary parts of the permittivity. (See "Permittivity.") The loss tangent is a parameter used to express the tendency of insulators or dielectrics to absorb some of the energy in an ac signal.	
分立线路	64.1693	损耗因子	21.0396
通过印刷、电镀和/或蚀刻以外的技术建立的导电图形，在共同的基材上按照预先确定的布局实现点到点的连接。		损耗电流与充电电流之比。损耗因数或损耗正切 ($\tan\delta$) 由 ϵ_0/ϵ_N 得出， ϵ_N 和 ϵ_0 分别为电容率的实部和虚部（见“电容率， Permittivity”）。损耗正切是用以表示绝缘体或介质吸收交流信号能量趋势的参数。	
Discrete Wiring Board	64.0390		
A base material upon which discrete wiring techniques are used to obtain electrical interconnections.			
分立布线板	64.0390		
采用分立线路技术实现电气互连的基材。			

Dissolution of Metallization	36.1741	Don't Care Area	22.0399
The process of dissolving metal, usually by the introduction of chemicals. (See also "Leaching, Metallization.")		See "Exclusion Area."	
金属层溶蚀	36.1741	忽略区	22.0399
通常由于采用化学品引起的溶解金属的过程。(又见“金属层浸析， Leaching, Metallization”。)		见“免检区， Exclusion Area”。	
Dissolution of Termination Metallization (Leaching)	75.1695	Doping	35.0400
See "Leaching, Metallization."		The addition of an impurity to alter the conductivity of a semiconductor die.	
端子金属层溶蚀（浸析）	75.1695	掺杂质	35.0400
见“金属层浸析， Leaching, Metallization”。		为改变半导体芯片的导电率而加入一种杂质。	
Distance to Neutral Point (DNP)	35.1696	Double-Sided Assembly	80.0401
The linear separation of a joint from the neutral point on a chip. This dimension controls the strain on the joint imposed by expansion mismatch between chip and substrate.		A packaging and interconnecting structure with components mounted on both the primary and secondary sides. (See also "Single-Sided Assembly".)	
距中点距离 (DNP)	35.1696	双面组件	80.0401
焊点距芯片中点的直线距离。这个尺寸可控制由芯片与基板之间膨胀错位导致的焊点张力。		主面及其次面都安装元器件的封装与互联结构。(又见“单面组件， Single-Sided Assembly”。)	
Distributed Numerical Control (DNC)	25.0398	Double-Sided Printed Board	60.0402
A network that links computer programs or computer-aided systems to numerically-controlled machine tools.		A printed board with a conductive pattern on both of its sides.	
分布式数控 (DNC)	25.0398	双面印制板	60.0402
连接计算机程序或计算机辅助系统到数控设备的网络。		两面均有导电图形的印制版。	
Disturbed Solder Connection	97.1384	Double-Sided Flexible Printed Wiring Board	62.1697
A solder connection that is characterized by the appearance that there was motion between the metals being joined when the solder was solidifying.		See "Flexible Double-Sided Printed Board."	
受扰焊接连接	97.1384	双面挠性印制线路板	62.1697
焊料凝固时，由于被连接金属之间有移动而在外观上表现出来的焊接连接。		见“挠性双面印制板， Flexible Double-Sided Printed Board”。	
Doming (BGA)	34.2142	Double-Sided Printed Wiring Board	60.1698
A condition of a ball grid array (BGA) package after reflow where the corners turn down and toward the printed board laminate surface. This condition in the worse case causes the balls on the outside row to be in compression and the balls in the center to be in tension. (Opposite of "Cupping (BGA).")		See "Double-Sided Printed Board."	
拱形 (BGA)	34.2142	双面印制线路板	60.1698
再流焊后，球栅陈列 (BGA) 封装角部位向下弯曲，朝向印制板表面。严重时会造成位于外围的焊料球被挤压，而中心部分的焊料球被拉伸。(与“杯形 (BGA)， Cupping (BGA)”相反的状况。)		见“双面印制板， Double-Sided Printed Board”。	
Doubled-Treated Foil (DTF)		Doubled-Treated Foil (DTF)	45.1700
		Application of a chemical adhesion promoter treatment that is placed on both surfaces of the copper (matte and drum sides).	
双面处理金属箔 (DTF)		双面处理金属箔 (DTF)	45.1700
		采用化学附着催化剂处理铜箔的两个表面 (粗面和鼓面)。	
Download, Computer		Download, Computer	11.1385
		The transfer of computer programs or data from a computer to a lower-level computer.	

计算机下载	11.1385	钻头	51.1702
将计算机程序或数据从一台计算机传输至低级别的计算机。		带有螺旋凹槽（沟）的杆，头部为带有刃口的钝角尖，通过旋转运动制作孔。	
Download, Tester	92.0403	Drill Body Length	51.0407
The ability of a test analyzer to provide failure analysis and data logging information to a host computer.		The distance from the drill point to the intersection of the drill diameter and shoulder angle.	
测试仪下载	92.0403	钻体长度	51.0407
测试分析仪向计算机主机提供失效分析和数据记录信息的能力。		从钻尖至钻头直径与肩角部交线处的距离。	
Drafting Image	26.0404	Drill Diameter	51.0408
An image that is part of a master drawing or layout.		The actual size of the drill body.	
绘制图像	26.0404	钻头直径	51.0408
部分布设总图或电路图的图像。		钻体的实际尺寸。	
Drag Soldering	75.1386	Drill Point Concentricity	51.0409
The making of soldered terminations by moving the solder side of a supported printed board with through-hole mounted components through the surface of a static pool of molten solder. (See also "Dip Soldering.")		The total variation of the location of the chisel point of a rotated drill shank.	
拖焊	75.1386	钻尖同心度	51.0409
移动受支撑的装有通孔插装元器件的印制板组件焊接面通过静止的熔融焊料槽表面形成焊接端接。（又见“浸焊， Dip Soldering”。）		旋转钻柄的钻尖位置总变差。	
Drain Wire	37.0405	Dross	75.0410
An uninsulated wire that is used for the electrical termination of a shield or ground plane.		Oxide and other contaminants that form on the surface of molten solder.	
加蔽线	37.0405	焊渣	75.0410
用作屏蔽层或接地层电气端接的非绝缘导线。		熔融焊料表面形成的氧化物及其它污染物。	
Drawbridged Component	73.0406	Drying (Solder Paste)	75.1708
See "Tombstoned Component."		Ambient or heating process to evaporate volatile components from solder paste which may or may not result in melting of rosin/resin.	
吊桥元器件	73.0406	烘干（焊膏）	75.1708
见“墓碑状元器件， Tombstoned Component”。		蒸发焊膏中挥发性组分的室温或加热过程，这些组分可能会、也可能不会导致松香/树脂熔融。	
Drilling	51.1703	Dry Film Resist	52.1705
A process for making holes using a drill bit or laser.		A composite material where a photosensitive emulsion that is sensitive to portions of the light spectrum and is either carried by or sandwiched between polymer release films and is used to expose imagery on printed boards.	
钻孔	51.1703	干膜抗蚀剂	52.1705
采用钻头或激光制作孔的工艺。		均匀掺有或夹有感应光谱的感光乳剂聚合薄膜，是用于印制板曝光成像的合成材料。	
Drill Bit	51.1702		
A rod with spiral flutes (grooves) and an obtuse angled point with sharpened cutting edges used to make holes by rotary action.			

Dry Glass (Clad Laminate)	41.1706	边缘精度	92.0415
A general reference to the appearance of a laminate where the reinforcement is highly visible, due to low/lost resin content or poor wetting/encapsulation of the resin to the reinforcement, although the resin coverage is acceptable.		从生产底版制成图形时其边缘的再现精度。	
干玻 (覆箔层压板)	41.1706	Edge Detection	92.0416
明显可见增强材料的层压板外观的通称，原因是树脂含量低/缺失或树脂对增强材料的润湿/密封不佳，尽管树脂涂覆可接收。		The ability to recognize (differentiate) the location of an edge.	
Dual Fixture	92.0411	边缘检查	92.0416
A test fixture with two separate bed-of-nails units.		判别（区别）边缘位置的能力。	
双组夹具	92.0411	Edge Rate	21.0417
具有两套分离的针床单元的测试夹具。		The rate of change in voltage with time of a logic signal transition.	
Dual-Inline Package (DIP)	31.1387	前沿速率	21.0417
An electronic device package with a rectangular housing and two parallel rows of electrical connecting pins, usually protruding from the longer sides of the package and bent downward.		逻辑信号跳变时电压随时间的变化率。	
双列直插封装 (DIP)	31.1387	Edge Short	74.0418
具有矩形壳体的电子元器件封装，通常其两列平行的电子连接插针从封装本体的长边向外引出，再向下弯曲。		An electrical short caused by carrier tape leads making contact with the edge of a semiconductor die.	
Dual-Strip Line	21.1797	边缘短路	74.0418
A balanced stripline configuration (See "Stripline" and "Balanced Transmission Line.") This structure consists of two layers of signal lines located between two reference planes.		由于载带引线与半导体芯片边缘相接触引起的电气短路。	
双带状线	21.1797	Edge Spacing	22.0419
一种平衡带状线构造。(见“带状线，Stripline”和“平衡传输线，Balanced Transmission Line”。)该结构由位于两个基准面之间的两层信号线组成。		The distance of a pattern or component body from the edges of a printed board. (See also "Margin.")	
E		边缘间距	22.0419
E Glass	44.0423	导电图形或元器件本体到印制板边缘的距离。(又见“边距，Margin”。)	
A low alkali lime alumina borosilicate glass with good electrical properties.		Edge-Board Connector	37.0412
E玻璃	44.0423	A connector that is used specifically for making nonpermanent interconnections with the edge-board contacts on a printed board.	
具有良好电气性能的低碱石灰氧化铝硼硅酸盐玻璃。		板边连接器	37.0412
Edge Definition	92.0415	专门用于实现与印制板板边接触片非永久性互连的连接器。	
The reproduction fidelity of a pattern's edge relative to the production master.		Edge-Board Contact(s)	22.0413
		Printed contact(s) on or near any edge of a printed board, that are used specifically for mating with edge-board connectors.	
		板边接触片	22.0413
		印制板任意边缘或附近的印制接触片，专用于与板边连接器配接。	
		Edge-to-Edge Spacing	22.0414
		See "Conductor Spacing."	

边至边间距	22.0414	Elastomeric Connector	36.0424
见“导体间距，Conductor Spacing”。		A pliant strip of flexible material with insulating and conductive elements intended for providing electrical interconnections.	
Edge-Transmission Attenuation	21.1388	弹性连接器	36.0424
The loss of a logic signal's switching-edge sharpness that has been caused by the absorption of the highest-frequency components by the transmission line.		具有用以实现电气互连的绝缘和导电部件的易弯曲挠性材料片。	
边沿传输衰减	21.1388	Electrical Characteristics	21.1742
由于传输线对高频成分的吸收而引起的逻辑信号转换边沿尖锐度的损耗。		The distinguishing electrical traits or properties of a component or assembly.	
Effective Color Temperature	24.0420	电气特性	21.1742
A color temperature based on an approximation of an equivalent continuous spectrum resultant source, expressed in degrees Kelvin (K).		元器件或组件的显著的电气特性或属性。	
有效色温	24.0420	Electrical Clearance	21.2079
基于等效连续光谱合成源的近似值的色温，以开氏度数（K）表示。		The shortest distance between two conductors, which includes traces, terminals and structures, measured through air.	
Effective Focal Length	24.0421	电气间隙	21.2079
A measure of the distance from the principal point of a magnification device's optical system to the corresponding focal point.		两个导体（包括导体线条、接线柱和导体构件）之间的最小直线距离。	
有效焦距	24.0421	Electrical Resistance	21.1712
放大设备的光学系统的主点到其相应焦点距离的量度。		See “Resistance.”	
Effective Permittivity	21.0422	电气阻抗	21.1712
The permittivity of a mixed media configuration, such as air and the solid dielectrics used in microstrip, that has the equivalent electromagnetic wave propagation characteristics of a single dielectric medium.		见“电阻，Resistance”。	
有效电容率	21.0422	Electrodeposited Foil	45.0425
混合电介质结构的电容率，例如用于微带线内的空气和固体电介质，相当于电磁波在单一电介质的传输特性。		A metal foil that is produced by electrodeposition of the metal onto a material acting as a cathode.	
Effective Relative Dielectric Constant	21.1798	电沉积金属箔	45.0425
The relative permittivity (see “Dielectric Constant”) of a mixed media configuration, such as air and the solid dielectrics used in microstrip, that has the equivalent electromagnetic wave propagation characteristics of a single dielectric medium.		将金属电沉积在材料上作为阴极而形成的金属箔。	
有效相对介电常数	21.1798	Electrodeposition	53.0426
混合介质结构的相对介电常数（见“介电常数，Dielectric Constant”），例如用于微波传送带内的气体和固体电介质，相当于电磁波在单一电介质的传输特性。		The deposition of a conductive material from a plating solution by the application of electrical current.	
电沉积	53.0426	电沉积	53.0426
通过施加电流，电镀溶液中导电材料的沉积。		通过施加电流，电镀溶液中导电材料的沉积。	
Electroless Deposition	53.0427	无电沉积	53.0427
The deposition of conductive material from an autocatalytic plating solution without the application of electrical current.		不施加电流，自动催化电镀溶液中导电材料的沉积。	
Electroless Plating	53.0428	See “Electroless Deposition.”	
See “Electroless Deposition.”			

无电电镀	53.0428	电子束键合	74.0432
见“无电沉积, Electroless Deposition”。		通过真空装置中的电子射流加热形成端接。	
Electrolytic Cleaning	76.0429	Electroplating	53.0433
Cleaning in which a current is passed through an alkaline solution with the part to be cleaned being one of the electrodes.		See “Electrodeposition.”	
电解清洗	76.0429	电镀	53.0433
以被清洗件作为电极之一，在碱性溶液中通以电流而进行的清洗。		见“电沉积, Electrodeposition”。	
Electrolytic Corrosion	76.1713	Electrostatic Discharge (ESD)	21.1716
Corrosion caused by an electrochemical reaction.		The rapid spontaneous transfer of electrostatic charge, induced by a high electrostatic field.	
电解腐蚀	76.1713	静电放电 (ESD)	21.1716
电化学反应造成的腐蚀。		由高静电场引发的静电荷快速自发的转移。	
Electrolytic Corrosion Factor		Element (Bar Code)	70.1717
(Pressure Sensitive Tape)	75.1714	In a bar code, a generic term referring to a bar or space.	
A measure of the pressure sensitive adhesive tape's corrosive effect on a copper conductor.		元素 (条码)	70.1717
电解腐蚀因子 (压敏胶带)	75.1714	条码中关于条或空的通称。	
压敏胶带对铜导体的腐蚀作用的量度。		Elementary Diagram	26.0434
Electrolytic Deposition	53.0430	A computer-generated schematic diagram with annotations.	
See “Electrodeposition.”		接线原理图	26.0434
电解沉积	53.0430	计算机生成的具有注解的原理图。	
见“电沉积, Electrodeposition”。		Elongation	70.0435
Electromagnetic Interference (EMI)	21.0431	The increase in length of a material that is caused by a tensile load.	
Unwanted electromagnetic energy that may couple into electrical circuits and adversely affect their performance.		延伸	70.0435
电磁干扰 (EMI)	21.0431	拉伸负荷引起的材料长度的增加。	
可能耦合于电路中且对电路性能起反作用的不需要的电磁能。		Embedded Active Component (Device)	49.2167
Electromigration	96.1715	An active device that is inserted or formed between the layers of the primary interconnect substrate. It should have terminals which can connect with the layers of the substrate.	
An undesirable phenomenon in which metal ions migrate through a suitable medium under the influence of an electrical field.		埋入式主动 (有源) 元器件 (器件)	49.2167
电迁移	96.1715	插入或成形于主互连基板的层之间的主动 (有源) 器件。这类元器件应该有能与基板的层连接的端子。	
在电场的影响下，不希望发生的金属离子迁移穿过适当介质的现象。		Embedded Component	30.0436
Electron-Beam Bonding	74.0432	A discrete component that is fabricated as an integral part of a printed board. (See Figure E-1.)	
Terminations made by heating with a stream of electrons in a vacuum.		埋入式元器件	30.0436
		被制作为印制板中不可分割部分的分立或有源元器件。(见图E-1。)	

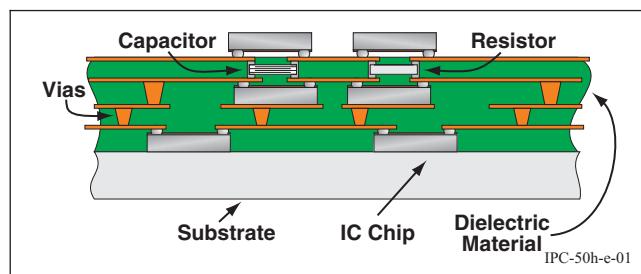
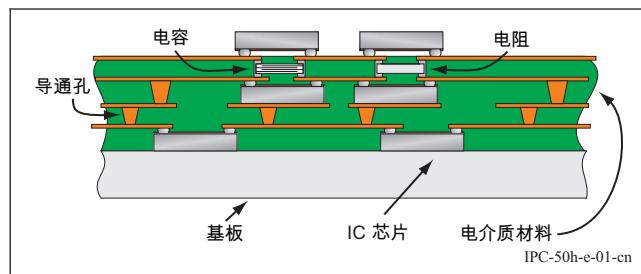


Figure E-1 Embedded Component



图E-1 埋入式元器件

Embedded Component (Inserted) 49.2165

A functional component that is inserted between the layers of the primary interconnect substrate, as opposed to being on the surface.

埋入式元器件（插入） 49.2165

与位于PCB表面的元器件不同，此类元器件为插入互连基板的层之间的功能元器件。

Embedded Component (Formed) 49.2166

A component that is created, from raw materials, inside the primary interconnect substrate, as opposed to being on the surface.

埋入式元器件（成形） 49.2166

与位于PCB表面的元器件不同，此类元器件是由原材料成形于主互连基板内的元器件。

Embedded Copper (Base Materials) 45.1718

An inclusion which is composed of copper and sourced from the cladding, and may be particles from treatment transfer, broken away copper tooth, or spurious copper.

埋铜（基材） 45.1718

源于覆层的由铜组成的夹杂物，可能是处理转移的铜颗粒、断裂的铜刺，也可能不是铜。

Embedded Fiber (Base Materials) 44.1825

An inclusion which has an insignificant width or diameter but has significant length, usually but not always in a curly or twisted configuration, generally from organic sources such as clothing or packaging materials.

埋纤（基材）

44.1825

一种宽度或直径可忽略、但长度较明显的夹杂物，通常为但不总是弯曲或扭曲外形，一般源于有机物，如布料或包装材料。

Embedded Passive

49.0096

A sheet of resistive, capacitive or inductive material which is laminated onto a dielectric, and either etched or laser cut to define individual resistors, capacitors or inductors.

埋入式被动（无源）材料片

49.0096

电阻性、电容性或电感性材料片层压在电介质上，通过蚀刻或激光方法确定单个电阻、电容或电感。

Embedded Passive Component (Device)

49.2161

A passive component that may be formed or placed inside the primary interconnect substrate, as opposed to being mounted on the surface. Formed embedded passive components may be singulated (embedded discrete) or embedded distributed (planar) structures. (See Figure E-2.)

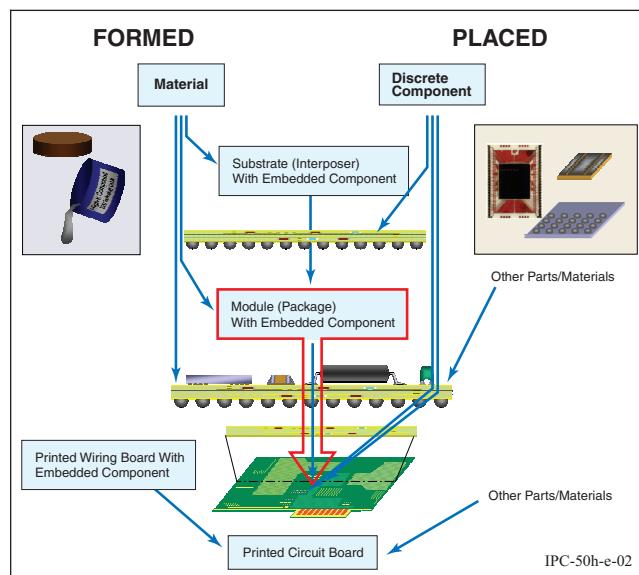


Figure E-2 Embedded Passive Component (Device)

埋入式被动（无源）元器件（器件）

49.2161

与贴装在表面的元器件不同，此类元器件为可成形于或放置在主互连基板内的无源器件。成形后的埋入式无源器件可以是单件式（埋入分立）或埋入分布（平面）结构。（见图E-2。）

Emulsifying Agent

76.0437

A substance that increases the stability of an emulsion.

乳化剂

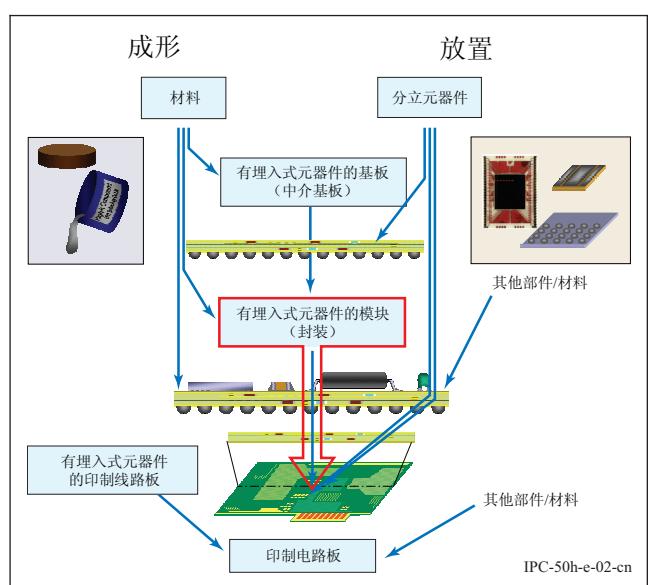
76.0437

能增加乳液稳定性的物质。

Emulsion

76.0439

A stable mixture of two or more immiscible liquids held in suspension by small percentages of emulsifiers.



图E-2 埋入式被动（无源）元器件（器件）

乳液

76.0439

由少量乳化剂保持两种以上不相溶液体悬浮的稳定混合物。

Encapsulant

76.0440

See "Potting Compound."

封装剂

76.0440

见“灌封化合物，Potting Compound”。

End Item

20.0441

See "End Product."

最终成品

20.0441

见“最终产品，End Product”。

End Missing

44.0442

A very small portion of the warp in a fabric that may have been broken in the pick-out of waste material.

断经

44.0442

织物中可能因摘除废纱，而引起很小一段经纱断裂。

End Product

20.0443

An individual part or assembly in its final completed state.

最终产品

20.0443

处于最终完成状态的独立零部件或组件。

End Mill

51.1719

A rod with straight or spiral flutes (grooves) sharpened as a cutting surface(s) and a flat or shaped end with cutting teeth, used for surface or side milling by rotary action.

端铣刀

51.1719

带有垂直或螺旋状凹槽的滚筒，被削尖成锋利的表面和平的或某种形状的端部，带有锋利的牙齿，通过旋转运动用作表面或侧面研磨。

Engineering Drawing

26.0444

A document that discloses the physical and functional end-product requirements of an item by means of pictorial and/or textual presentations.

工程图

26.0444

用图示和/或文字来表示说明一项最终产品的物理要求和功能要求的文件。

Entry/Backup Material

51.1720

A material which when placed on the top (entry) and/or bottom (backup) of a stack of printed boards being drilled or routed, supports the edges of drilled holes or routed profile such that the presence of burrs is minimized.

盖板/垫板

51.1720

钻孔或外形加工时，放在一叠印制板顶部的盖板（进刀板）和/或底部的垫板，用于支撑钻孔或铣外形的材料，其目的是为了减少毛刺产生。

Epoxy Glass Substrate

41.1743

A two-part epoxy resin that polymerizes spontaneously when the two components are mixed and combined with glass fiber to form a substrate.

环氧玻璃基板

41.1743

双组分环氧树脂，当两组分混合时可自发地聚合并与玻璃纤维结合形成基板。

Epoxy Novolac

41.0445

A multifunctional resin having epoxy groups attached to a novolac group(s).

环氧酚醛

41.0445

一种附有酚醛基团的环氧基团多官能树脂。

Epoxy Resin

40.1721

A thermosetting resin containing at least two reactive oxirane rings that is made by the reaction of epichlorohydrine and bis-phenol A.

环氧树脂

40.1721

由环氧氯丙烷和双酚A缩聚反应而制成的至少含有两个活性环氧基团的热固树脂。

Epoxy Smear

51.0446

See "Resin Smear."

环氧钻污 51.0446

见“树脂钻污，Resin Smear”。

Equilibrium Wetting 75.1722

The degree of wetting in which the forces of wetting are in equilibrium with the forces of gravity. The visible indication of this is that the wetting balance curve describing the wetting action when the rate of change approaches zero.

润湿平衡 75.1722

润湿力与重力处于平衡状态下的润湿程度。可用变化率趋近于零时的润湿称量曲线直观表示润湿作用大小。

Equivalent Series Resistance (ESR) 21.0447

A loss parameter used to compare two capacitors of equal value in order to determine their relative effectiveness as filters.

等效串联电阻 (ESR) 21.0447

用于比较两等值电容器的损耗参数，以确定其作为滤波器的相对有效性。

Escape Rate 94.0448

The ratio of the number of defective items not detected to the total number inspected, expressed as a percentage.

漏失率 94.0448

以百分率表示在被检总数中未检出的有缺陷部品数量的比率。

Escapes 94.0449

Critical defects that are missed by an inspection system.

漏失 94.0449

被检验系统遗漏的致命缺陷。

Etch Factor 54.0452

The ratio of the depth of etch to the amount of lateral etch, i.e., the ratio of conductor thickness to the amount of undercut. (See Figure E-3.)

蚀刻因子 54.0452

蚀刻深度与侧蚀刻量之比，即导体厚度与侧蚀量之比。(见图E-3。)

Etchant 54.0450

A solution used to remove the unwanted portion of material from a printed board by a chemical reaction.

蚀刻剂 54.0450

通过化学反应从印制板上去除不需要部分材料的溶液。

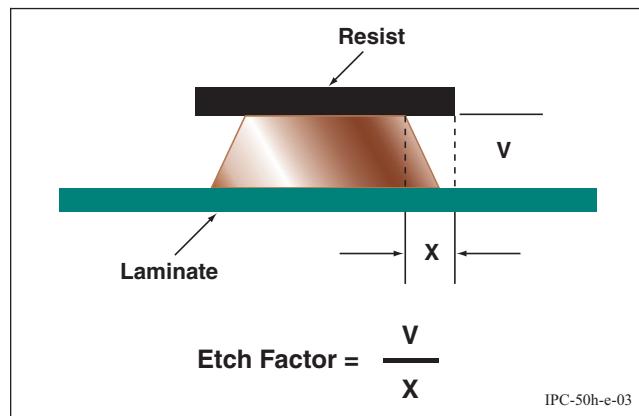
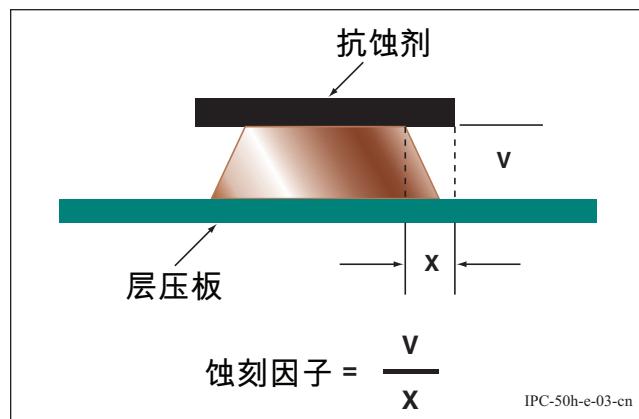


Figure E-3 Etch Factor



图E-3 蚀刻因子

Etchback 54.1389

The controlled removal of nonmetallic materials from the sidewalls of holes in order to remove resin smear and to expose additional internal conductor surfaces. (See Figure E-4.)

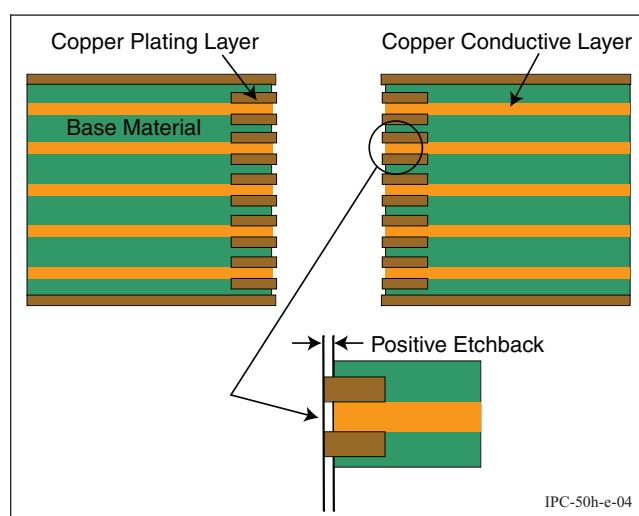
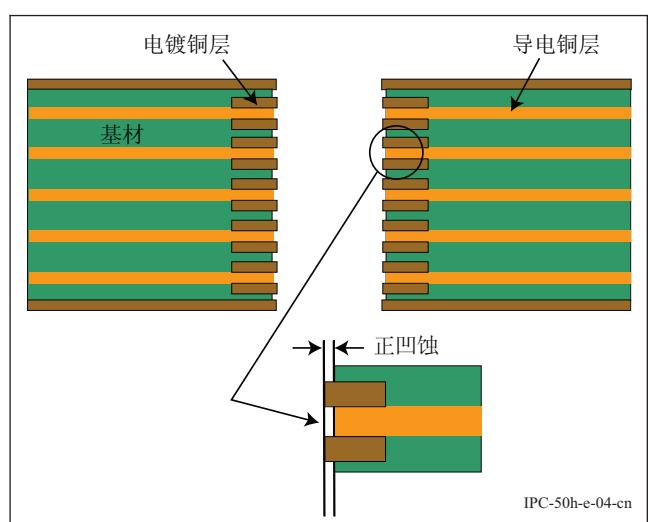


Figure E-4 Etchback

凹蚀 54.1389

为了去除树脂钻污及进一步暴露内层导体表面，而有控制的除去孔壁的非金属材料。(见图E-4。)



图E-4 凹蚀

Etched Printed Boards**60.0451**

A printed board having a conductive pattern that was formed by the chemical removal of unwanted portions of a conductive foil.

已蚀刻印制板**60.0451**

已用化学方法去除导电箔的不需要部分而形成的具有导电图形的板子。

Etching**54.0453**

The chemical, or chemical and electrolytic, removal of unwanted portions of conductive or resistive material.

蚀刻**54.0453**

用化学或电化学方法去除导电或抗蚀材料的不需要部分。

Etching Indicator**54.1390**

A wedge-shaped or other specified pattern that is affixed to a conductive foil in order to indicate the quality of etching. (See Figure E-5.)

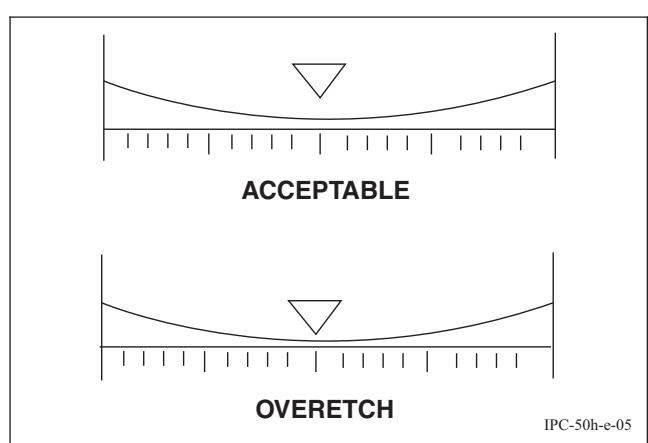
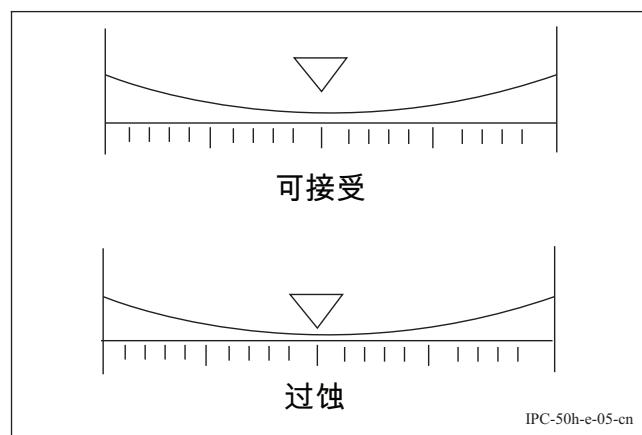


Figure E-5 Etching Indicator

蚀刻指示图**54.1390**

附加在导电箔上用以显示蚀刻质量的楔形图或其他规定形状的图形。(见图E-5。)



图E-5 蚀刻指示图

Etch Resist**54.1723**

An organic or metal plated material used to protect the conductive pattern image from the etching chemistry. The organic material may be photosensitive.

抗蚀剂**54.1723**

用于保护导电图形图像避免化学物质蚀刻的有机物或金属电镀材料。有机材料可以是感光的。

Ethanol**76.1744**

A solvent used in cleaning electrical assemblies (Ethyl alcohol).

乙醇**76.1744**

用于清洗电子组件的溶剂(乙基酒精)。

Eutectic (Solder)**75.1391**

The alloy composition at which a solder alloy melts/freezes completely without going through a pasty (partially solid) phase.

共晶 (焊料)**75.1391**

焊料合金不经过糊状相(部分固体)就完全熔融或凝固的合金组成。

Eutectic**75.1392**

An isothermal reversible reaction in which on cooling a liquid solution is converted into two or more intimately-mixed solids, with the number of solids formed being the same as the number of components in the system.

共晶**75.1392**

一种等温可逆反应，其中冷却时，液相溶液转化为两种以上紧密混合固相，形成的固相数与系统中组分数相同。

Eutectic Die Attach	74.0454	免检区	92.0459
The mounting of a semiconductor die to a base material with a preform of a eutectic metal alloy that is brought to its eutectic melting temperature.		预定不作检查操作的区域。	
共晶芯片连接	74.0454	Exfoliation	76.0460
采用达到共晶熔融温度的预成型共晶金属合金将半导体芯片安装到基材上的过程。		Scaling from a surface in flakes or layers as a result of corrosion.	
Eutrophication	76.0455	麟皮	76.0460
The enrichment of either fresh or salt water by a chemical element or compound.		腐蚀造成的表面片状或层状剥落。	
富营养化	76.0455	Experimental Error	93.0461
由于化学元素或化合物使新鲜水或含盐水增浓。		A variation that is due to a measurement error, a chance occurrence, or other factors.	
Excess Solder Connection	75.1393	实验误差	93.0461
A solder connection that is characterized by the complete obscuring of the surfaces of the connected metals and/or by the presence of solder beyond the connection area.		由于测量误差、偶然因素及其它因素引起的变异。	
过量焊接连接	75.1393	Exposure	52.1724
其特征表现为被连接金属表面被完全遮蔽和/或焊料超出连接区的焊接连接。		The process of generating a pattern within a photosensitive material through a chemical reaction using either laser direct imaging or conventional imaging with a working phototool.	
Exchange Reaction	76.1317	曝光	52.1724
A chemical reaction in which atoms of the same element in two different molecules, or in two different positions in the same molecule, transfer places.		采用激光直接成像或带有工作照相底版常规成像技术，通过化学反应在感光材料上产生图形的过程。	
交换反应	76.1317	Exposure Time (Component)	30.1914
两个不同分子中或同一分子的两个不同位置中相同元素的原子交换位置的化学反应。		The compensation factor which accounts for the time after bake that the component manufacturer requires to process the components prior to bag seal.	
Excising	73.0457	暴露时间（元器件）	30.1914
The cutting of the unterminated (outer) leads of an inner-lead bonded die in order to separate it from the carrier tape subsequent to further assembly processing.		元器件制造商需要在烘焙后至装袋密封前对元器件进行处理所用时间的补偿因素。	
切割	73.0457	External Layer	22.0462
将内引线键合芯片的末端接（外部）的引线切断，以使其与芯片载带分开，进行后续的组装加工。		A conductive pattern on the surface of a printed board.	
Excitation Current	21.0458	外层	22.0462
The root-mean-square (RMS) current flowing in a selected winding when the rated voltage and frequency is applied.		印制板表面的导电图形。	
励磁电流	21.0458	Extraction, Liquid-Liquid	76.0463
选定的绕组中施以额定电压及频率时所流过电流的均方根值。		See "Solvent Extraction."	
Exclusion Area	92.0459	液液萃取	76.0463
A predetermined region where inspection is excluded.		见“溶剂萃取， Solvent Extraction”。	
		Extraction Tool	77.0464
		A device used for removing a contact from a connector body or insert, a component from a socket, or a printed board from its enclosure.	

取出工具	77.0464	Fabrication Allowance	26.1725
用于从连接器本体或插入物中取出接触件、从插座中取出元器件、或从壳体中取出印制板的装置。		A dimensional value added to a printed board feature or feature location intended to assure that manufacturing variations can maintain certain physical or performance characteristics of the end product.	
Extraneous Copper (Base Materials)	92.2072	制作余量	26.1725
A portion of the copper cladding which could not be etched off. Usually due to a contaminant stuck to the clad laminate which acts as a barrier to etching.		印刷板特征或特征位置尺寸的增加值，以确保制造变异后仍能保证终端产品的一些物理或性能特性。	
残余铜（基材）	92.2072	Fabrication Panel	41.2148
不能被蚀刻掉的一部分铜覆层。通常是由污物粘附于覆箔层压板上而阻碍了蚀刻。		See “Panel.”	
Extraneous Metal	92.0465	制作在制板	41.2148
Unwanted metal, usually copper, that remains on a base material after chemical processing.		见“在制板， Panel”。	
残余金属	92.0465	Face Bonding	74.0469
化学处理后基材上残留的多余金属，通常指铜。		Attaching a die to a base material with its circuitry facing the base material.	
Eyelet	37.0466	面键合	74.0469
A short metallic tube, the ends of which can be formed outward in order to fasten it within a hole in material such as a printed board.		使芯片电路面向基板而实现芯片与基板的连接。	
空心铆钉	37.0466	Face Down Bonding	74.1753
其两端能成形为向外翻的金属短管，以便固定在材料如印刷板的孔内。		A method of attaching a component or circuit chip to a substrate by inverting the chip and bonding chip contacts to the mirror-image contact points on the substrate.	
F			
F (Fisher) Test	94.0468	面向下键合	74.1753
A test that attempts to determine if two populations have the same variance.		将元器件或电路芯片连接到基板上的邦定方法，它通过反转芯片并将芯片键合到基板上的镜像连接点来实现。	
F (费歇尔) 测试	94.0468	Face up Bonding	74.1799
确定二个总体是否具有相同方差的测试。		A type of integrated circuit bonding wherein the back of the die is attached to a base material.	
F Ratio	93.0552	面向上键合	74.1799
The ratio of one variance value to another.		一种集成电路键合方式，其中芯片的背面与基板连接。	
F比率	93.0552	Factorial Experiment	94.0470
一个方差值与另一个方差值之比。		An experimental design that evaluates every possible combination of events.	
FCC System	37.0486	析因实验	94.0470
A complete flat-conductor cabling system that is suitable for installation under carpet squares. (See “Flat Cable.”)		评价事件每种可能组合的实验设计。	
FCC 系统	37.0486	False Alarm	92.0471
适合安装在地毯下的全扁平半导体电缆敷设系统。(又见“扁平电缆， Flat Cable”。)		An anomaly identified by an inspection system that is not a critical defect.	
假警报		92.0471	
		检验系统将非致命缺陷识别为异常。	

False Alarm Rate	92.0472	Fatty Acid	76.0476
The ratio of the number of acceptable items detected to the total number inspected, expressed as a percentage.		A carboxylic acid derived from, or contained in, an animal or vegetable fat or oil.	
假警报率	92.0472	脂肪酸	76.0476
有缺陷的可接受部品数与检验总数之比，以百分比表示。		动物或植物脂肪或油中存在的或衍生出的羧基酸。	
Farad	21.1808	Fatty Ester	76.0477
A unit of electrical capacitance.		A fatty acid with the active hydrogen replaced by the alkyl group of a monohydric alcohol.	
法拉	21.1808	脂肪脂	76.0477
电容的单位。		其活性氢被单羟基醇的烃基所取代的脂肪酸。	
Far-End Crosstalk	21.0473	Fault	90.0478
See "Forward Crosstalk."		Any condition that causes a device or circuit to fail to operate in a proper manner.	
远端串扰	21.0473	故障	90.0478
见“正向串扰， Forward Crosstalk”。		任何导致设备或电路不能以正常方式工作的状况。	
Fatigue Life	96.0474	Fault Dictionary	90.0479
The number of cycles of stress that can be sustained prior to failure for a stated test condition.		A list of elements in which each element consists of a fault signature that can be used to detect a fault.	
疲劳寿命	96.0474	故障表	90.0479
规定测试条件下，材料在失效之前，所能经受的应力循环次数。		可用于检测故障的要素表，其中每个要素包括一个故障表征。	
Fatigue Limit	96.0475	Fault Isolation	92.0480
The maximum stress below which a material can presumably endure an infinite number of stress cycles.		The identification process used to determine the location of a fault to within a small number of replaceable components.	
疲劳极限	96.0475	故障隔离	92.0480
当最大应力小于某一数值时，材料可经受无限次应力循环，而不发生失效，此应力值即为疲劳极限。		用于确定在少量可替换元器件范围内故障位置的鉴别过程。	
Fatigue Strength	96.1394	Fault Localization	91.0481
The maximum strength that can be sustained for a specific number of cycles without failure, with the stress being completely reversed within each cycle unless otherwise stated.		The identification process used to determine the location of a fault to within a general area of a circuit.	
疲劳强度	96.1394	故障定位	91.0481
材料能经受一定次数的应力循环而不发生失效的最大强度，除非另有规定，每个循环中应力完全反向。		用于确定在电路整个区域内故障位置的鉴别过程。	
Fatigue-Strength Reduction Factor (Kf)	96.1395	Fault Masking	92.0482
The ratio of the fatigue strength of a member or specimen with no stress concentration to the fatigue strength with stress concentration.		A condition that occurs when one fault conceals the existence of another.	
疲劳强度降低系数 (Kf)	96.1395	故障屏蔽	92.0482
构件或试样在没有应力集中时的疲劳强度与有应力集中时的疲劳强度之比。		一个故障掩盖另一个故障的存在时所发生的状况。	
		Fault Modes	92.0483
		The various ways faults may occur.	

故障模式	92.0483	Feature-Location Record	25.0490
故障可能发生的各种方式。		A type of record that defines lines, points, and annotations.	
Fault Resolution	92.0484	要素位置记录	25.0490
A measure of the capability of a test process to perform failure isolation.		定义线、点及注解的记录形式。	
故障分辨率	92.0484	Fiber Exposure	91.0492
测试过程实现故障隔离的能力量度。		The exposure of reinforcing fibers that are within machined, abraded, or chemical-attacked areas of a base material. (See also "Weave Exposure.")	
Fault Signature	92.0485	露纤维	91.0492
The characteristic, unique erroneous response produced by a specific fault.		基材因机械加工、磨损、或化学侵蚀而露出增强纤维。(又见“露织物，Weave Exposure”。)	
故障表征	92.0485	Fiducial (Mark)	22.0493
特定故障产生的唯一的错误反应特征。		A printed board feature (or features) that is (are) created in the same process as the conductive pattern and that provides a common measurable point for component mounting with respect to a land pattern or land patterns.	
Fault Simulation	92.1396	基准 (标记)	22.0493
A process that allows for the prediction or observation of a system's behavior in the presence of a specific fault without actually having that fault occur.		与导电图形同时生成的印制板要素，为根据焊盘图形安装元器件提供了公共可测点。	
故障模拟	92.1396	Field Trimming	77.0494
预测或观察系统在发生特定故障时的运转状态的过程，实际上并没有真正发生故障。		The adjusting of the value of a resistor in order to modify a circuit output voltage or current.	
Feather Length	44.0487	现场修整	77.0494
The distance from the last warp end of a fabric to the end of the pick.		调整电阻值以修改电路输出电压或输出电流。	
毛边长度	44.0487	Filiform Corrosion	76.0495
织物最边上一根经纱末端到纬纱末端之间的距离。		Corrosion that develops under organic coatings on metals in the form of randomly distributed fine hairlines that are usually curved, wavy, or coiled.	
Feature	22.0488	线状腐蚀	76.0495
The general term that is applied to a physical portion of a part, such as a surface, hole or slot.		发生在有机涂层下的金属腐蚀，通常为曲线状、波状、或卷曲状的不规则分布细线。	
要素	22.0488	Fill	44.0496
零件实体部分，如表面、孔或槽的通用术语。		Yarns that are woven in a crosswise direction of a fabric.	
Feature Window	74.0491	纬线	44.0496
An opening in the insulation material of a carrier tape that allows for the creation and bonding of separated leads.		横向织入织物的纱线。	
要素窗	74.0491	Filler	44.0497
载带绝缘材料中的开口，用于分立引线的形成和键合。		A substance that is added to a material to improve its solidity, bulk, or other properties.	
Feature-Based Modeling	21.0489	填料	44.0497
A computer-based modeling method that is based on the use of part features instead of geometric entities.		加入材料中以改善材料的硬度、体积或其他特性的物质。	
基于要素建模	21.0489		
采用部件要素代替几何实体的计算机建模方法。			

Fillet, Adhesive 75.0498

The portion of an adhesive that fills the corner, or the angle formed, where two adherends are joined. (See Figure F-1.)

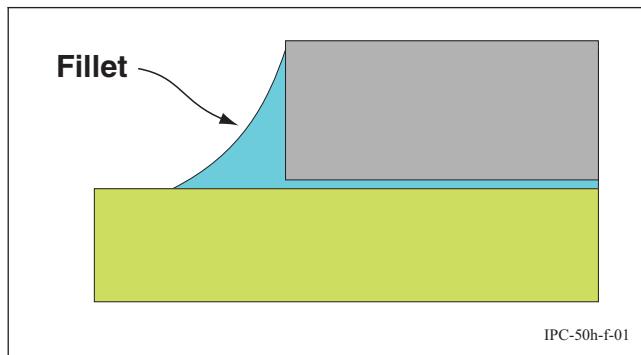
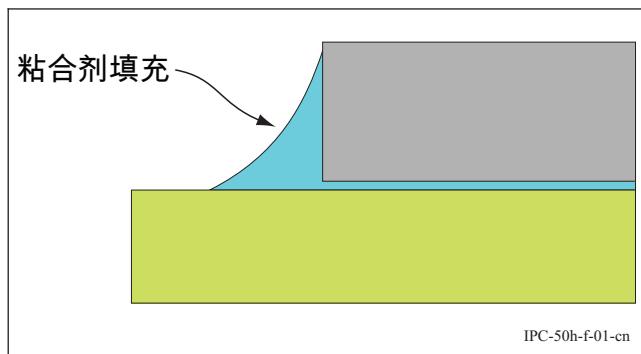


Figure F-1 Fillet, Adhesive

粘合剂填充 75.0498

粘合剂的一部分，填充在二个粘合体结合的角落或形成的角。(见图F-1。)



图F-1 粘合剂填充

Fillet, Solder 75.0499

See "Solder Fillet."

焊料填充 75.0499

见“焊料填充， Solder Fillet”。

Film 45.0500

Single or multiple layers of material used to form hybrid circuit elements, interconnections, and crossovers. (See also "Thin Film" and "Thick Film.")

膜 45.0500

用于形成混合电路元器件、互连和跨接的单层或多层材料。(又见“薄膜， Thin Film” 和 “厚膜， Thick Film”。)

Film Conductor 45.0501

A conductor formed in place on a base material by depositing a conductive material using screening, plating or evaporating techniques.

膜导体

45.0501

采用网印、电镀或蒸镀技术在基材上沉积导电材料所形成的导体。

Film Network

53.0502

An electrical network composed of thin-film and/or thick-film components on a base material.

膜网络

53.0502

由基材上的薄膜和/或厚膜元器件组成的电气网络。

Final Inspection

92.1671

An evaluation of quality characteristics relating to a standard, specification, or design drawing prior to shipping to the customer.

最终检验

92.1671

产品交付客户之前，根据标准、规范或设计图纸对其质量特征的评价。

Final Seal

76.1397

The manufacturing process that completes the enclosure of a microcircuit so that further internal processing cannot be performed without removing a lid or otherwise disassembling the package.

最终密封

76.1397

将微电路封入罩内的制造过程，之后如不去除罩或将封装解体就无法对其内部进行进一步的加工。

Fine Leak

95.0504

A leak in a sealed package that is less than 0.00001 cubic centimeters per second at one atmosphere of differential air pressure.

细泄漏

95.0504

压力差为一个大气压时，已密封封装中小于0.00001 cm³/s的泄漏。

Fine Pitch QFP

33.1837

A quad flat pack (QFP) package with the lead pitch at or less than 0.65 mm [0.025 in] centers.

细间距QFP

33.1837

引线中心间距小于等于0.65mm[0.025in]的方形扁平 (QFP) 封装。

Fine-Pitch BGA/Chip Scale Package (CSP)

33.1838

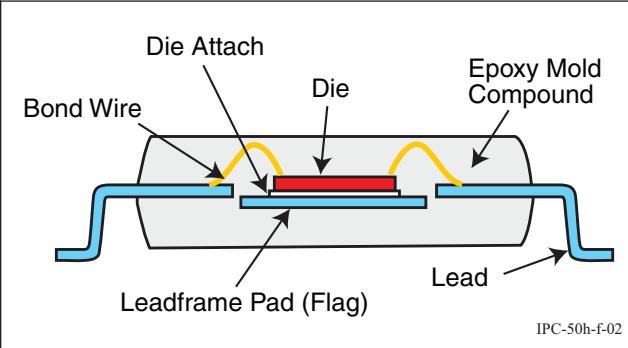
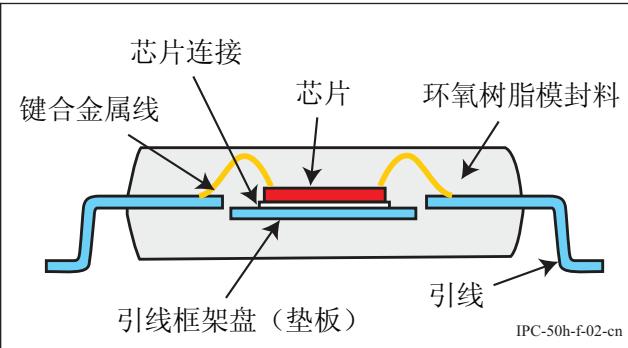
Ball grid array with less than 1 mm [0.039 in] pitch. This is also known as Chip Scale Package (CSP).

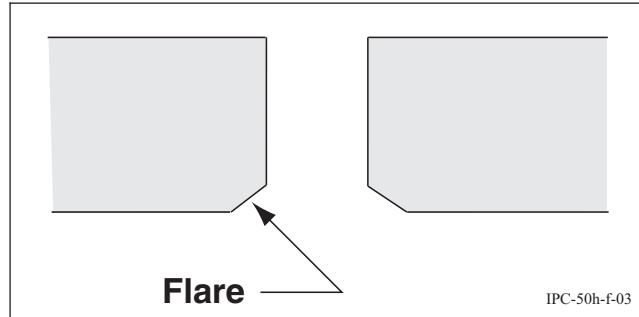
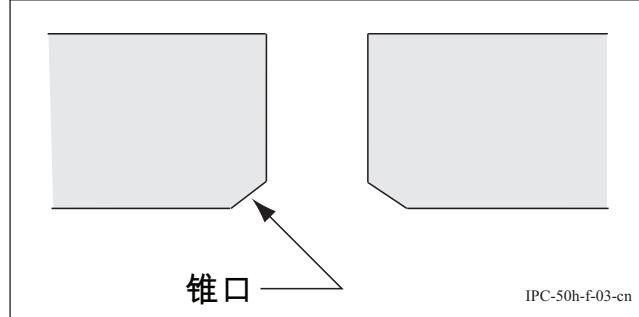
细间距BGA/芯片规模封装 (CSP)

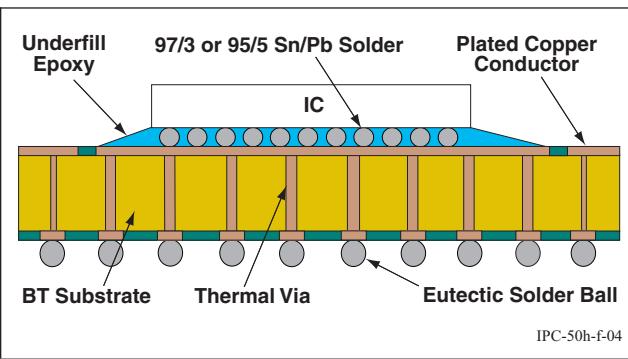
33.1838

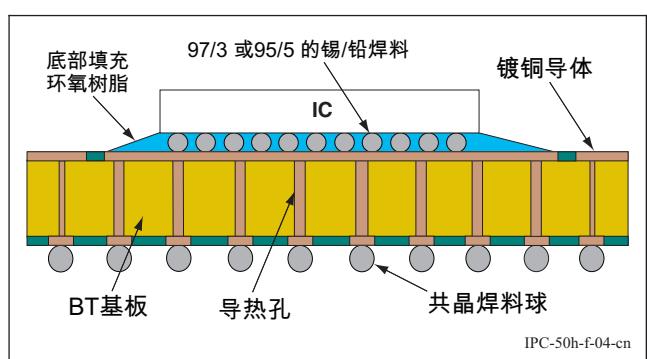
间距小于1mm[0.039in]的球栅阵列，也称为芯片规模封装 (CSP)。

Fine-Pitch Technology (FPT)	80.0503	Firing Sensitivity	56.0509
A surface-mount assembly technology with component terminations on less than 0.65 mm [0.025 in] centers.		The percentage change of film component characteristics caused by a change in peak firing temperature, expressed as percent per degree centigrade.	
精细化距技术 (FPT)	80.0503	烧结敏感度	56.0509
元器件端子中心距小于0.65mm[0.025in]的表面组装技术。		烧结峰值温度变化引起的膜元器件特性变化百分率，用每摄氏度百分比表示。	
Fingers	22.0505	First Article	91.0511
See "Edge-Board Contacts."		A part or assembly that has been manufactured prior to the start of a production run for the purpose of ascertaining whether or not the manufacturing processes used to fabricate it are capable of making items that will meet all applicable end-product requirements.	
手指	22.0505	首件	91.0511
见“板边接触片， Edge-Board Contacts”。		在正式生产前所制造出的部件或组件，以确认所采用的制造工艺是否能制造出满足所有适用的终端产品要求的部品。	
Finished Fabric	44.0506	First Bond	74.0512
A fabric that has been treated in order to aid its compatibility with resins.		The initial termination in a sequence of bonds made to form a conductive path. (See also "Second Bond.")	
经处理织物	44.0506	首键合	74.0512
已经处理的织物，以提高其与树脂的兼容性。		形成导电通路的一系列键合中的首端接。(又见“第二键合， Second Bond”。)	
Finished Board	60.2149	First Radius	74.0513
See "Printed Board."		The radius of the front edge of a bonding-tool foot.	
成品板	60.2149	第一半径	74.0513
见“印制板， Printed Board”。		键合工具底座的前缘半径。	
Finite-Element Analysis (FEA)	21.1398	First Search	74.0514
A computer-based analysis method that subdivides geometric entities into successively smaller elements and links a series of equations to each element so that they can then be analyzed simultaneously.		The moment at which the final adjustment is made in the location of the bonding area under the bonding tool prior to making the first bond.	
有限元分析 (FEA)	21.1398	首次搜索	74.0514
基于计算机的分析方法，将几何实体分为连续的更小单元，并将一系列公式与每个单元链接，从而可以对这些单元同时进行分析。		完成首键合前，定位接合工具下的键合区时所进行的最后调整时刻。	
Finite-Element Modeling (FEM)	21.0507	First-Pass Yield	91.0510
The use of a model to represent a problem that can be evaluated by finite-element analysis.		The statistical average of the number of finished units in a group that pass all tests without any rework, expressed in percent.	
有限元建模 (FEM)	21.0507	直通率	91.0510
使用模型表示能用有限元分析法进行评定的问题。		一组成品中通过所有测试而无需任何返工的产品数量的统计平均值，用百分数表示。	
Fire (v.)	56.0508		
To heat a circuit so that its thick-film components are transformed into their final form.			
烧结 (动词)	56.0508		
加热电路使其厚膜元器件转变成最终形式。			

Fish Eye	44.0516	Fixed-Effect Model	91.1399
A small area of a fabric that resists resin wetting that can be caused by the resin system, fabric and treating.		A specific experimental treatment whereby the conclusions reached apply only to the factor levels considered in the analysis and the interferences are restricted to the experimental levels. (See also "Random-Effects Model.")	
鱼眼	44.0516	固定效应模式	91.1399
可能因树脂系统、织物或处理造成的阻碍树脂浸润小区域织物。		特殊的实验处理模式，由此获得的结论仅用于分析中所考虑的因素，干扰也只限于实验水平。(又见“随机效应模式，Random-Effects Model”。)	
Fish Eye (Adhesive)	46.1839	Fixture, Test	92.0519
Relatively small deformations (pock marks) in the adhesive coating.		A device that interfaces between test equipment and the unit under test.	
鱼眼 (粘合剂)	46.1839	测试夹具	92.0519
粘合涂层内相对小的变形(麻点)。		将测试设备与待测试单元连接起来的装置。	
Fishbone Diagram	91.0515	Flag	74.0520
See "Cause-and-Effect Diagram."		The support area on a die or lead frame. (See Figure F-2.)	
鱼骨图	91.0515		
见“因果图，Cause-and-Effect Diagram”。			
Fisheye (Prepreg)	44.1840		
A localized area of the reinforcement where the resin coverage is significantly diminished although intact, forming a circular depression, much like a shallow volcano.		Die Attach Bond Wire Die Epoxy Mold Compound Lead Leadframe Pad (Flag) IPC-50h-f-02	
鱼眼 (预浸材料)	44.1840		
增强材料局部区域虽有树脂覆盖，但明显减少，形成一个圆凹陷区，很像一个浅火山。			
Fisheyes (Pressure Sensitive Tape)	46.1841	Figure F-2 Flag	
In pressure sensitive tape, relatively small deformations or pockmarks within the adhesive coating.		垫板	74.0520
鱼眼 (压敏胶带)	46.1841		
压敏胶粘带中粘接涂覆层内相对小的变形或麻点。		芯片或引线框架上的支撑区域。(见图F-2。)	
Fissuring	56.0517		
The cracking of a conductor or dielectric material caused by stresses occurring during firing.		芯片连接 键合金属线 芯片 环氧树脂模封料 引线框架盘(垫板) 引线 IPC-50h-f-02-cn	
裂隙	56.0517		
烧结期间由应力引起的导体或电介质材料开裂。			
Fixed Contact	37.0518	Flame-Off	74.0521
A type of connector contact that is permanently retained within the connector body or insert.		The use of a flame to sever a wire and to form a ball for the next ball-bonding termination.	
固定接触件	37.0518	烧断	74.0521
永久性地保留在连接器本体或嵌入物中的连接器接触件。		用火焰烧断金属线，并形成下一个球键合端接点用球。	

Flame Resistance	40.1842	Flash Distillation	76.1401
The degree to which a given substance will resist being ignited when exposed to a flame.		Distillation in which an appreciable proportion of liquid is quickly converted to a vapor in such a way that the final vapor is in equilibrium with the final liquid.	
耐燃性	40.1842	急骤蒸馏	76.1401
给定物质暴露于火焰中时，能抵抗被点燃的能力。		可估比例的液体很快转化为蒸汽而最终蒸汽与最终液体相平衡的蒸馏。	
Flame Retardance	40.1843	Flashover	21.1845
The tendency of the material, when burning, to self-extinguish once the source of ignition is removed.		An electric discharge that takes place around or on the surface of an insulator between conductors with different potentials when a path becomes sufficiently ionized to sustain an electric arc.	
阻燃性	40.1843	飞弧	21.1845
材料燃烧时，撤走点火源后，材料自身熄灭的趋势。		当通路足以电离维持电弧时，不同电势导体之间的绝缘体表面或周围发生的放电。	
Flammability	40.1844	Flat Cable	37.0522
The tendency of the material to ignite and burn when subjected to an ignition source.		Two or more parallel, round or flat, conductors that are contained in the same plane of a flat insulating base material.	
可燃性	40.1844	扁平电缆	37.0522
材料接触到点火源时，点燃和燃烧的趋势。		包含在扁平绝缘基材相同平面内的两个或两个以上平行的、圆或扁平导体。	
Flare	51.1400	Flat Conductor	40.1800
The undesirable enlarged and tapered area around a punched hole that is on the side of the material through which the punch exited during hole formation. (See Figure F-3.)		A rectangular conductor that is wider than it is high.	
	IPC-50h-f-03	扁平导体	40.1800
Figure F-3 Flare		宽度大于厚度的矩形导体。	
锥口	51.1400	Flat Pack	33.0523
冲孔成型时，在冲床退出的材料面冲压孔周围形成了不需要的扩大和锥形区域。(见图F-3。)		A rectangular component package that has a row of leads extending from each of the longer sides of its body that are parallel to the base of its body.	
	IPC-50h-f-03-cn	扁平封装	33.0523
图F-3 锥口		其本体两个长边均伸出一排与其本体基底相平行的引线的矩形元器件封装。	
Flex-Rigid Double-Sided Printed Board	63.1570	Flex-Rigid Double-Sided Printed Board	63.1570
See "Rigid-Flex Double-sided Printed Board."		See "Rigid-Flex Double-sided Printed Board."	
挠刚性双面印制板	63.1570	挠刚性双面印制板	63.1570
见“刚挠性双面印制板，Rigid-Flex Double-Sided Printed Board”。		见“刚挠性双面印制板，Rigid-Flex Double-Sided Printed Board”。	
Flex-Rigid Printed Board	63.0524	Flex-Rigid Printed Board	63.0524
See "Rigid-Flex Printed Board."		See "Rigid-Flex Printed Board."	
挠刚性印制板	63.0524	挠刚性印制板	63.0524
见“刚挠性印制板，Rigid-Flex Printed Board”。		见“刚挠性印制板，Rigid-Flex Printed Board”。	

Flex-Rigid Printed Wiring Board See "Rigid-Flex Printed Board."	63.1847	Flexible Printed Wiring	62.0526
挠刚性印制线路板 见“刚挠性印制板，Rigid-Flex Printed Board”。	63.1847	A patterned arrangement of printed wiring that utilizes flexible base material with or without flexible overlay.	
Flexible Double-Sided Printed Board Double-sided printed board, either printed circuit or printed wiring, using a flexible base material only.	62.1581	挠性印制线路	62.0526
挠性双面印制板 只采用挠性基材制作的印制线路或印制电路双面印制板。	62.1581	采用带有或没有挠性覆盖层的挠性基材的印制线路图形排列。	
Flexible Material Interconnect Construction (FMIC) The integration of passive and active components with mechanical components (including switches and connectors) on a flexible or thin base material, i.e., flexible printed board, in order to produce an electronic assembly.	70.1846	Flexible Single-Sided Printed Board Single-sided printed board, either printed circuit or printed wiring, using flexible base materials only.	62.1580
挠性材料互连结构 (FMIC) 为了形成电子组件，在挠性或薄基材上即挠性印制板上无源及有源元器件与机械元器件（包括开关和连接器）的集成。	70.1846	挠性单面印制板	62.1580
Flexible Multilayer Printed Board Multilayer printed board, either printed circuit or printed wiring, using flexible base materials only. Different areas of the flexible multilayer printed board may have different number of layers and thicknesses.	62.1582	Flexural Failure A failure that is caused by the repeated flexing of a material.	91.0527
挠性多层印制板 只采用挠性基材的印制电路或印制线路多层印制板。挠性多层印制板的不同区域可以有不同的层数和不同的厚度。	62.1582	挠曲破坏 材料经受重复挠曲而导致的失效。	91.0527
Flexible Printed Board A printed board using a flexible base material only. May be partially provided with electrically nonfunctional stiffeners and/or overlay.	62.1579	Flexural Strength The tensile strength of the outermost fiber of a material that is being bent.	44.0528
挠性印制板 只采用挠性基材的印制板。其部分区域可能有非电气功能增强板和/或覆盖层。	62.1579	弯曲强度 材料被弯曲时，最外层纤维的拉伸强度。	44.0528
Flexible Printed Circuit A patterned arrangement of printed circuitry and components that utilizes flexible base material with or without flexible overlay.	62.0525	Flip Chip A leadless monolithic, circuit element structure that electrically and mechanically interconnects to a base material through the use of conductive bumps. (See Figure F-4.)	74.0530
挠性印制电路 采用带有或没有挠性覆盖层的挠性基材的印制电路和元器件图形排列。	62.0525	 Figure F-4 illustrates a flip chip assembly. An integrated circuit (IC) chip is shown at the top, connected to a blue layer of 97/3 or 95/5 Sn/Pb solder. This solder is attached to a series of vertical thermal vias that penetrate a green BT substrate. The substrate has several circular eutectic solder balls at its bottom edge. A blue layer of underfill epoxy covers the solder joints. Plated copper conductors are visible on the right side of the diagram. Underfill Epoxy 97/3 or 95/5 Sn/Pb Solder Plated Copper Conductor IC BT Substrate Thermal Via Eutectic Solder Ball IPC-50h-f-04	
倒装芯片 通过导电凸点实现与基材的电气和机械互连的无引线单片电路元器件结构。(见图F-4。)	74.0530	Flip-Chip Mounting The mounting and interconnecting of a flip chip component to a base material.	74.0529



图F-4 倒装芯片

倒装芯片安装 74.0529

倒装芯片元器件在基材上的安装及与其基材的互连。

Float 44.0531

A warp or fill yarn that does not interlace with the next designated yarn, but passes over or under two or more adjacent yarns.

跳线 44.0531

经纱或纬纱，其未与下一根纱线相交织，而从上面或下面跳过二根以上的纱线。

Floating Bushing 37.0533

A connector mounting device that allows for connector body movement in order to facilitate its alignment with a mating part or mating assembly.

浮动衬套 37.0533

可使连接器本体移动以使本体与相配接的部件或组件易于对准的连接器安装装置。

Floating-Annulus Tape-Automated Bonding 74.0532

A carrier tape format that uses a free-floating annulus ring to separate suspended leads.

浮动环载带自动键合 74.0532

采用自由浮动圆环分离悬浮引线的载带形式。

Flocculant 76.0534

A substance that induces flocculation.

絮凝剂 76.0534

诱发絮凝作用的物质。

Flocculation 76.0535

The combination or aggregation of suspended solid particles in such a way that they form small clumps or tufts that resemble wool.

絮凝作用 76.0535

悬浮固体颗粒结合或聚集成絮状的小凝块或团簇。

Floor Life**30.1848**

The allowable time period for a moisture-sensitive device to be exposed to normal room environment after removal from a moisture barrier bag and before a solder reflow process.

现场寿命**30.1848**

湿敏器件拆除防潮袋后，在再流焊工艺前，暴露在正常室内环境下所允许的时间周期。

Flow Soldering**75.0536**

A wave, drag or dip soldering process where the product is brought into contact with molten solder in order to attach electronic components to the interconnecting surface.

流动焊接**75.0536**

波峰焊接、拖焊或浸焊工艺，产品与熔融焊料相接触，实现电子元器件与互连表面的连接。

Flow Soldering (Nitrogen Process)**75.1934**

A flow soldering process, carried out in a nitrogen atmosphere, intended to retard oxidation of solder and board conductive surfaces and improve solder wetting.

流动焊接（氮气工艺）**75.1934**

在氮气中完成的流动焊接工艺，目的是阻止焊料和板子导体表面的氧化且改善焊料润湿。

Flush Conductor**22.0537**

A conductor whose outer surface is in the same plane as is the surface of the insulating material adjacent to the conductor.

齐平导体**22.0537**

导体外表面与其相邻的绝缘基材表面处于同一平面的导体。

Flux**75.0538**

A chemically and physically active compound that, when heated, promotes the wetting of a base metal surface by molten solder by removing minor surface oxidation and other surface films and by protecting the surfaces from reoxidation during a soldering operation.

助焊剂**75.0538**

化学和物理活性混合物，加热时能除去表面少量氧化物和其他表面薄膜，同时防止被焊接表面在焊接过程中再次氧化，以促进熔融焊料对金属基材的润湿。

Flux Activation Temperature**75.0540**

The temperature at which flux becomes active enough to remove oxides from the metals being joined.

助焊剂活化温度	75.0540	Foil Burr	51.0544
助焊剂达到足够活性以除去被连接金属氧化物的温度。		A rough edge or area that remains on the surface of a foil after it has been cut, pierced, or drilled.	
Flux Activity	75.0541	金属箔毛刺	51.0544
The degree or efficiency with which a flux promotes wetting of a surface with molten solder. (See also "Solder-Spread Test," "Wetting Balance.")		经过切割、冲切或钻孔后在箔表面上留有的粗糙边缘或区域。	
助焊剂活性	75.0541	Foil Lamination	55.0545
助焊剂促进熔融焊料润湿金属表面的程度或效率。 (又见“焊料铺展测试， Solder-Spread Test”和“润湿平衡， Wetting Balance”。)		A process for making multilayer printed boards with surface layer(s) of metal foil bonded in a single operation. (See also "Cap Lamination.")	
Flux Characterization	76.0542	覆箔层压	55.0545
A series of tests that determines the basic corrosive and conductive properties of fluxes and flux residues.		制作多层印制板的工艺，在一次层压中粘合金属箔作表面层。(又见“覆盖层压， Cap Lamination”。)	
助焊剂性能鉴定	76.0542	Foil Profile	45.0546
确定助焊剂及其残留物的基本腐蚀性和导电性能的一系列测试。		The roughness of a foil surface that results from the manufacture of the foil and/or from a bond-enhancement treatment.	
Flux Residue	76.0543	箔轮廓	45.0546
A flux-related contaminant that is present on or near the surface of a solder connection.		由箔的制造过程和/或粘合增强处理形成的金属箔表面粗糙度。	
助焊剂残留物	76.0543	Foot Length	74.0547
出现在焊接连接表面或其附近，与助焊剂有关的污染物。		The longer dimension of the bonding surface of a wedge-type bonding tool.	
Flux-Cored Solder	46.0539	底座长度	74.0547
A wire or ribbon of solder that contains one or more continuous flux-filled cavities along its length.		楔型键合工具的键合表面的长方向尺寸。	
助焊剂芯焊料	46.0539	Footprint	22.0548
沿长度方向含有一条或多条连续助焊剂芯的线状或带装焊料。		See "Land Pattern."	
Flux-Spatter Test	76.1402	印制焊脚	22.0548
A semiquantitative test that characterizes the ability of flux and flux residues, upon rapid heating of the flux, to remain in one area rather than form a dispersion of fine droplets.		见“连接盘图形， Land Pattern”。	
助焊剂飞溅测试	76.1402	Forced Gas Convection Soldering	75.1746
确定助焊剂受到快速加热时，助焊剂及其残留物维持在一个区域内而不是形成分散的细颗粒的半定量测试。		Reflow soldering using forced hot air or nitrogen gas as the primary source of heat.	
Fluxing	75.1745	强制热风对流焊接	75.1746
The efficiency with which a flux promotes wetting of a surface with molten solder.		采用强制热风或氮气作为主要加热源的再流焊接。	
助焊	75.1745	Forced-Field Analysis	93.1403
助焊剂促进熔融焊料润湿表面的效率。		A technique that is used to help solve a problem by identifying those forces that are preventing improvement (restraints) and those forces that affect improvement (drives).	

强力场分析	93.1403	Frame Pitch	74.0551
通过识别哪些力阻止改进（遏制作用）和哪些力有利于改进（推动作用）来帮助解决问题的一种方法。		The distance from the centerline of one tape-automated bonding frame to the centerline on the next frame site on a reel of carrier tape.	
Foreign Material	90.1854	框节距	74.0551
See "Inclusion."		成卷的载带上一个载带自动键合框的中心线到另一个框中心线的距离。	
外来物	90.1854	Frequency, Electrical Current	21.1856
见“夹杂物， Inclusion”。		The number of cycles (hertz) or completed alterations per unit of time.	
Foreign Material (Soldering)	75.1404	电流频率	21.1856
A lumpy, irregular coating that has covered, or partially covered, particles of material that are located on, but are different than, the material or coating of the items to be soldered.		单位时间的循环次数（赫兹）或单位时间完成的交变次数。	
外来物（焊接）	75.1404	Frit (Semiconductor)	35.1857
覆盖或部分覆盖于被焊接对象的材料或涂层上且与之不同的粗糙不规则材料涂层。		A glass composition with a relatively low softening point.	
Fork Contact	37.1405	玻璃料（半导体）	35.1857
A type of female connector contact that consists of flat spring metal that has been formed into a two tine "fork-like" shape so that it mates with a spade contact.		软化点相对低的玻璃组分。（译者注：添加在浆料中，用于增加贵金属的凝聚和附着效果；使空白陶瓷基板上的金属粉和金属化合物在高温烧结后，形成牢固的贵金属电路系统。）	
叉形接触件	37.1405	From-To List	21.0553
一种凹形连接器接触件，它由加工成双叉形状的扁金属弹簧组成，以便与铲形接触件配接。		Written instructions in the form of a list that indicates the locations of wiring terminations.	
Form	22.0549	接线表	21.0553
The shape of a feature.		以表格形式表示接线端接点位置的书面指令。	
外形	22.0549	Fully Additive Process	53.1407
要素的形状。		An additive process wherein the entire thickness of electrically isolated conductors is obtained by the use of electroless deposition. (See also "Semi-Additive Process.")	
Forward Crosstalk	21.1406	全加成法工艺	53.1407
Noise induced into a quiet line, as seen at the end of the quiet line that is the farthest from the signal source, because the quiet line has been placed next to an active line. (See also "Backward Crosstalk.")		用无电沉积方法形成有完整厚度电隔离导体的加成法工艺。（又见“半加成法工艺， Semi-Additive Process”。）	
正向串扰	21.1406	Fully Electroless Process	53.0554
由于无信号线置于有信号线附近，在无信号线远离信号源的一端可见到的无信号线感应到的噪声。（参见“反向串扰， Backward Crosstalk”。）		See "Fully Additive Process."	
Fractional-Factorial Experiment	91.0550	全无电工艺	53.0554
An experiment whereby only a portion of the complete factorial is run.		见“全加成法工艺， Fully-Additive Process”。	
部分因子实验	91.0550	Functional Tester	92.0556
全部因子中仅部分因子在运行的实验。		Equipment that analyzes the unit under test as a complete functional entity by applying inputs and sensing outputs.	

功能测试仪	92.0556	G	
通过施加输入并感应输出，分析作为完整功能整体的被测试单元的测试设备。			
Functionality, Resin or Curing Agent	41.0555	76.1410	
The number of reactive groups per molecule.		Corrosion associated with the current of a galvanic cell consisting of two dissimilar conductors in an electrolyte or two similar conductors in dissimilar electrolytes.	
树脂或固化剂官能数	41.0555	76.1410	
每个分子的反应性基团数量。		由一种电解质内两种不同导体或不同电解质内二种相同导体组成的原电池的电流引起的腐蚀。	
Fused Coating	56.0557	Galvanic Deposition	53.0560
A metallic coating, usually a tin or solder alloy, that has been melted and solidified to form a metallurgical bond to a basis metal.		See "Electrodeposition."	
热熔涂覆层	56.0557	电镀沉积	53.0560
通常为锡或焊料合金的金属涂覆层，经熔融及固化后形成与金属基材的冶金接合。		见“电沉积， Electrodeposition”。	
Fusing	56.1676	Galvanic Displacement	53.0561
Melting of a metallic coating (usually electrodeposited tin or tin-lead) on a conductive pattern, followed by solidification.		See "Immersion Plating."	
热熔	56.1676	电镀置换	53.0561
金属涂覆层在导电图形上（通常是电镀锡或锡铅）熔融，然后固化。		见“浸镀， Immersion Plating”。	
Fusing Fluid	56.0467	Gang Bonding	74.0562
The heat-transfer medium used to attain a fused coating.		The making of several terminations simultaneously. (See also "Single-Point Bonding.")	
热熔液	56.0467	群点键合	74.0562
用于获得热熔涂覆层的传热介质。		同时形成几个端接点的键合。(又见“单点键合， Single-Point Bonding”。)	
Fusing Flux	56.1408	Gas Blanket	75.0564
An activated organic fluid that is used in the fusing of a tin-lead plating on a basis metal. (The application of these predominantly water-soluble fluids is usually followed by the use of a fusing oil.)		A flowing inert gas atmosphere used to keep metallization from oxidizing.	
热熔助焊剂	56.1408	气层	75.0564
用于在金属基材上热熔锡铅镀层的活性有机液体。 (通常应用这些起主要作用的水溶性液体后，再使用热熔油。)		用于防止金属化层氧化的惰性气流。	
Fusing Oil	56.1409	Gas-Tight Area	97.0563
A thermally-stable, nonactivated, fluid that is used in the fusing of tin lead plating on a basis metal. (The application of these predominantly water-soluble fluids is usually preceded by the use of a fusing flux.)		The common area between mated metal surfaces from which gas vapors and impurities are excluded.	
热熔油	56.1409	气密区	97.0563
一种热稳定非活性液体，用于在金属基材上热熔锡铅镀层。(通常先使用热熔助焊剂后，再应用这些起主要作用的水溶性液体。)		相配接金属面之间排除气体蒸汽和杂质进入的公共区域。	
Gauge Precision	22.0559	Gauge Precision	22.0559
		The absolute precision achieved in measuring feature size or feature location.	
量具精密度	22.0559		
		测量要素尺寸或要素位置时达到的绝对精度。	

Gaussian Distribution	94.1807	格柏数据	25.1411
See "Normal Distribution."		由孔径选择、操作指令及X、Y坐标尺寸组成的数据类型。(这种数据可直接用于光绘机而产生光绘底片。)	
高斯分布	94.1807		
见“正态分布， Normal Distribution”。			
Gel Time	55.0566	Glass Binder	44.0569
The time in seconds required for prepreg to change its physical state from that of a solid material to a liquid, and then back to a solid material.		Glass powder added to a thick-film resistive or conductive ink in order to bind together the metallic particles after firing.	
胶凝时间	55.0566		
半固化片物理状态的改变，即从固体经液体再变为固态所需的时间，以秒为单位。			
Gelation Particle	44.0565	玻璃粘合剂	44.0569
Microparticles of precured, usually translucent, resin in a laminate system.		使金属颗粒在烧结后粘接在一起，添加到厚膜电阻或导电油墨中的玻璃粉。	
胶化颗粒	44.0565		
层压板中预固化的通常为半透明的树脂颗粒。			
Generative Process Planning	91.0567	Glass Cloth	44.1858
A computer-based method whereby new process plans are created that are based on part or product information and manufacturing capabilities.		A pliable material made by weaving glass fiber bundles into a fabric layer.	
生成过程规划	91.0567	玻璃布	44.1858
根据零件或产品信息及生产能力，使用计算机生成新工艺计划的方法。		通过把玻璃纤维束编织为织布层而制成的柔软材料。	
Generic Specification (GS)	26.1782	Glass Fabric	44.1859
A document that describes as many general requirements as possible, pertaining to a set, family or group of products, materials, or service.		Fabric woven with glass yarns.	
总规范 (GS)	26.1782	玻璃织物	44.1859
描述一套、一族或一组产品、材料或服务的尽可能齐全的通用要求文件。		用玻璃纱织成的织物。	
Geometric Tolerance	22.0568	Glass Distortion (Base Materials)	44.1860
A tolerance that is used to control form, profile, orientation, location and runout.		A localized variance in the linearity of the yarns of the reinforcement.	
几何公差	22.0568	玻璃扭曲 (基材)	44.1860
用于控制外形、形状、定向、位置和偏心的公差。		增强材料中纱线直线性的局部变化。	
Gerber Data	25.1411	Glass Transition Temperature (T_g)	55.1412
A type of data that consists of aperture selection and operation commands and dimensions in X- and Y-coordinates. (The data is generally used to direct a photoplotter in generating photoplotted artwork.)		The temperature at which an amorphous polymer, or the amorphous regions in a partially-crystalline polymer, changes from being in a hard and relatively-brittle condition to being in a viscous or rubbery condition.	
		玻璃化温度	55.1412
		非晶态聚合物或部分结晶但仍属非晶态的聚合物，从硬而相对脆性的玻璃态转变为粘流态或高弹态时的温度。	
		Glass Yarn	44.1861
		A generic term for a continuous strand (collection) of twisted glass filaments (fibers) in a form suitable for weaving.	
		玻璃纱	44.1861
		以适合编织的方式形成的一股（组）连续绞合的玻璃丝（纤维）的总称。	

Globule Method	97.1862	Greige	44.0578
A test method that evaluates the solderability of a surface using a small ball of solder.		Fabric in a loom state that has no finish.	
焊球测试法	97.1862	生坯布	44.0578
采用小焊料球评定表面可焊性的测试方法。		处于织布状态还未完工的织物。	
Go/No-Go Test	92.0570	Grey-Scale Processing	92.0576
A testing process that yields only a pass or a fail condition.		The utilizing of more than one level of signal strength, intensity or amplitude to perform an inspection operation.	
通过/不通过测试	92.0570	灰度处理	92.0576
仅产生通过或失效状态的测试过程。		采用多个等级信号强度、亮度或幅度完成检验操作。	
Golden Assembly	92.0571	Grid	22.1812
See "Known Good Assembly."		An orthogonal network of two sets of parallel equidistant lines that is used for locating points on a printed board.	
黄金组件	92.0571	网格	22.1812
见“确认好组件， Known Good Assembly”。		两组等距离平行直线正交而成的网络，用于定位印制板上的点。	
Golden Board	92.0572	Gross Leak	95.0580
See "Known Good Board."		A leak in a sealed package that is greater than 0.00001 cubic centimeters per second at one atmosphere of differential air pressure.	
黄金板	92.0572	重泄漏	95.0580
见“确认好板， Known Good Board”。		压力差为一个大气压时，已密封封装中大于0.00001 cm ³ /s的泄漏。	
Gouge	92.0573	Ground	20.0581
A form of wear that consists of a wide groove deformation, accompanied by material removal, that penetrates a considerable distance below a surface.		A common reference point for electrical circuit returns, shielding, or heat sinking.	
凿槽	92.0573	接地	20.0581
磨损的外形，即伴随有材料去除的宽沟槽变形，穿透表面且低于表面相当距离。		电气电路回路、屏蔽层或散热片的公共基准点。	
Graded Wedge	54.0574	Ground Plane	20.1413
See "Etching Indicator."		A conductor layer, or portion thereof, that serves as a common reference for electrical circuit returns, shielding, or heat sinking. (See also "Signal Plane" and "Voltage Plane.")	
定级楔形图	54.0574	接地层	20.1413
见“蚀刻指示图， Etching Indicator”。		用作电气电路回路、屏蔽层或散热片的公共基准导体层或部分导体层。(参见“信号层， Signal Plane”和“电压层， Voltage Plane”。)	
Grading Frame	44.0575	Ground Plane Clearance	22.1414
Equipment used to continuously inspect fabric by the use of backlighting.		Removed portions of a ground plane that isolate it from a hole in the base material to which the plane is attached. (See Figure G-1.) (See also "Signal Plane" and "Voltage Plane.")	
分级系统	44.0575		
采用背光连续检查织物所用设备。			
Green Strength	56.0577		
The strength of substance, joint, or assembly before it has been cured (set).			
未固化强度	56.0577		
物质、接合点或组件在固化前的强度。			

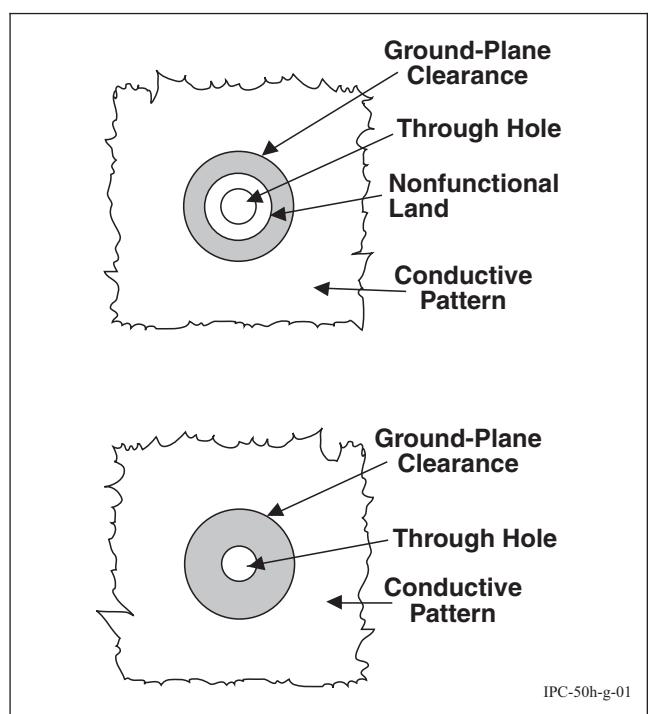
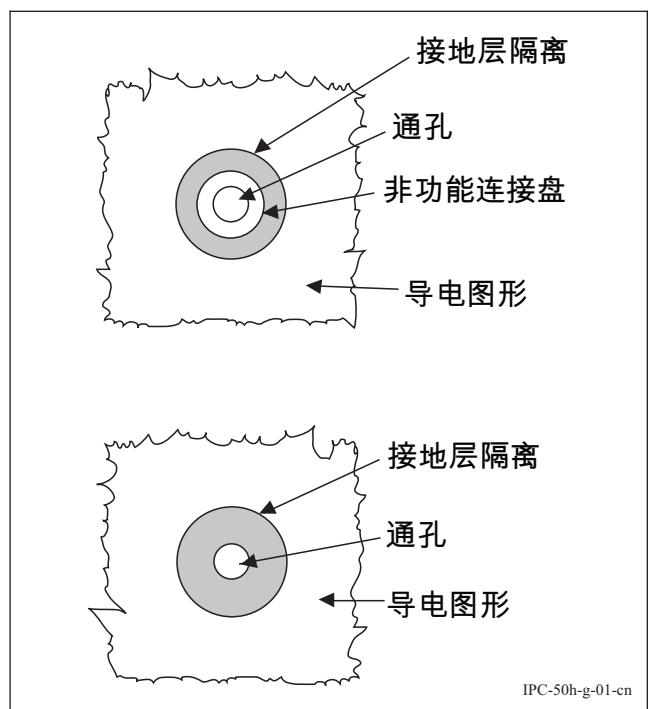


Figure G-1 Ground (or Voltage) Plane Clearance

接地层隔离

22.1414

从基材内孔周围蚀刻去除的部分接地层，可使接地层与同基材内的孔连接的层相隔离。（见图G-1。）
(又见“信号层，Signal Plane”和“电压层，Voltage Plane”。)



图G-1 接地层（或电压层）隔离

Guarding

92.0582

The in-circuit testing process of ensuring that a shunt path does not interfere with the testing of a device.

保护

92.0582

确保分路不会干扰器件测试的在线测试过程。

Guide Pin

37.0583

A connector interfacing device that allows for connector body movement in order to facilitate contact alignment prior to contact engagement.

引导销

37.0583

允许连接器本体移动的连接器接口装置，以便于接触件在啮合前的对准。

Gull Wing Leads

36.1747

An SMT lead form. Leads extending horizontally from the component body centerline, bent downward immediately past the body and then bent outward just below the bottom of the body, thus forming the shape of a gull's wing.

翼形引线

36.1747

SMT引线的一种形式，引线从元器件本体中心线水平向外延伸，沿元器件体边缘垂直向下至元器件本体时，再向外弯曲，因而形成鸥翼形状的引线。

H**Halide Content (Flux)**

76.0584

The ratio of the mass of free halides to the mass of solids in a flux expressed in mass percent of free chloride ion.

卤化物含量（助焊剂）

76.0584

助焊剂中游离卤化物质量与固体物质量之比，表示为游离氯离子的质量百分比。

Haloing

51.1415

Mechanically-induced fracturing or delamination, on or below the surface of a base material, that is usually exhibited by a light area around holes or other machined features.

晕圈

51.1415

由于机械加工引起的基材表面上或表面下的破裂或分层，通常表现为在孔周围或其它机械加工部位的四周呈现泛白区域。

Hand Soldering

75.0585

Soldering using a soldering iron or other hand-held, operator-controllable apparatus.

手工焊接

75.0585

用烙铁或其它操作者可以控制的手持装置进行的焊接。

Hard Wiring

75.0587

Electrical wiring that is inseparable from an assembly without the use of special tools and processes.

硬连线	75.0587	熔化热	56.0593
不采用特殊工具或工艺就无法将其与组件分开的电气连线。		将一个单位重量的固态材料转变为液态所需要的热量。	
Hardeners	56.0586	Heat Resistance	21.1864
See "Curing Agent."		The degree to which a material resists changes in its physical properties when subjected to changes in temperature.	
硬化剂	56.0586	耐热性	21.1864
见“固化剂， Curing Agent”。		当经受温度变化时，材料抵抗物理属性变化的能力。	
Header (Connector)	37.0589	Heatsink	30.0594
A pin field that is positioned in a 3- or 4-sided plastic housing that mounts directly onto a printed board.		A mechanical device that is made of a high thermal-conductivity and low specific-heat material that dissipates heat generated by a component or assembly.	
接插件（连接器）	37.0589	散热片	30.0594
定位在直接安装在印制板上的3面或4面塑料外壳内的插针区。		用高导热性和低比热材料制成的机械装置，可散发元器件或组件所产生的热量。	
Header (Module)	36.0590	Heatsink Plane	22.0595
The base of an electronic component package that contains leads.		A continuous sheet of metal on or in a printed board that functions to dissipate heat away from heat generating components.	
基座（模块）	36.0590	散热层	22.0595
含有引线的电子元器件封装基体。		印制板内或印制板上的一种连续金属片，其作用是消散元器件产生的热量。	
Heat Absorption Coefficient	21.1863	Heatsink Tool	75.1416
The degree to which various materials absorb heat or radiant energy when compared to each other.		A heatsink that is temporarily attached to a heat-sensitive component in order to minimize the transfer of heat from the component lead to the component body during a soldering operation.	
吸热系数	21.1863	散热工具	75.1416
衡量不同材料吸收热量或辐射能量的程度的物理量。		焊接操作过程中，一种暂时连接于对热敏感元器件的散热片，使元器件引线传到元器件本体的热量达到最小。	
Heat Cleaning	44.0591	Heavy Mark (Fabric)	44.0596
A process in which organic yarn binder (size) is removed from a fabric. (See also "Sizing.")		A filling defect that extends across the width of a fabric containing in excess of two picks per inch from nominal.	
热清洗	44.0591	厚段（织物）	44.0596
从织物上除去纱线有机粘接剂（浆料）的过程。（又见“上浆， Sizing”。）		贯穿织物宽度的纬线缺陷，每英寸长度内的纬纱数比标称值多2根以上。	
Heat Column	75.0592	Heel, Bonding	74.0598
The heating element in a eutectic die bonder or wire bonder that is used to bring the base material up to its bonding temperature.		The part of a lead adjacent to a termination that has been deformed by the edge of the bonding tool.	
热杆	75.0592		
在共晶芯片键合机或金属线键合机中用来升高基材到键合温度的加热元器件。			
Heat of Fusion	56.0593		
The quantity of heat required to convert a unit weight of solid material to its liquid state.			

键合倾斜	74.0598
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由于键接工具的边棱造成的靠近端接点的引线部分变形。

Heel Break	97.0599
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The rupture of a lead at the heel of a bond.

跟部断裂	97.0599
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引线在键合跟部发生的断裂。

Heel Crack	97.0600
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A crack across the width of a lead at the heel of a bond.

跟部裂缝	97.0600
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在键合跟部发生的横跨引线宽度的裂缝。

Heel (Drill)	51.0597
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The trailing edge of a drill land.

后棱（钻头）	51.0597
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钻头刃带的后缘。

Heel Fillet	73.1866
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The solder fillet formed in the land area behind the lead. (See Figure H-1.)

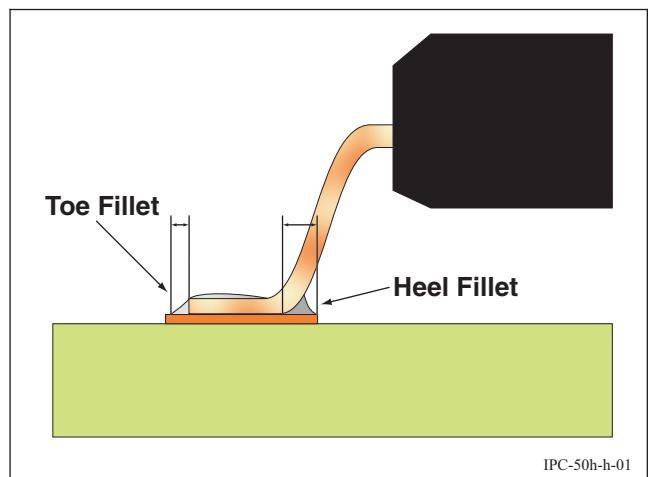


Figure H-1 Heel Fillet

跟部填充	73.1866
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在引线后的连接盘区域所形成的焊料填充。(见图H-1。)

Helix Angle	51.0601
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The angle of the spiral generated by the flute of a drill with respect to the axis of the drill.

螺旋角	51.0601
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钻头排屑槽与钻头轴线形成的螺旋形角。

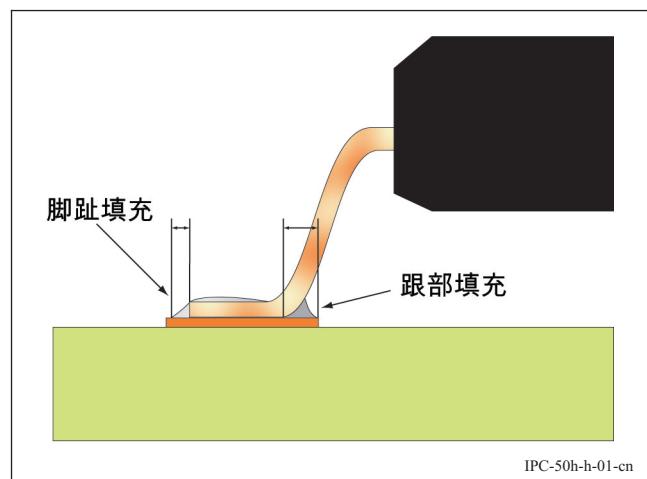


Figure H-1 Heel Fillet

Hermaphroditic Contact	37.0602
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A type of connector contact that mates with a contact that is identical to itself.

等同接合接触件	37.0602
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可与其相同的接触件配接的连接器接触件。

Hermetic (Sealed)	30.1867
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The condition of sealing a component from incoming gases to a specific of inward diffusion normally less than 1×10^{-6} cubic cm per second.

密封	30.1867
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气体向元器件内扩散的速度通常小于 $1 \times 10^{-6}\text{cm}^3/\text{s}$ 的元器件密封状况。

Heterocyclic	76.0603
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A cyclic or ring structure, often in the shape of a pentagon, in which one or more of the atoms in the ring is an element other than carbon.

杂环化合物	76.0603
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一般为五边形的环状结构，在该结构中有一个或多个原子不是碳原子。

Hierarchical Database	11.0604
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A database that is arranged in a tree-like structure of logic.

分级数据库	11.0604
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以树型逻辑结构排列的数据库。

High Density Interconnect (HDI)	22.2182
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A generic term for substrates or boards with a higher circuit density per unit area than conventional printed boards.

高密度互连 (HDI)**22.2182**

单位面积电路密度比传统印制板的电路密度高的基板或电路板通用术语。

High Density Plastic Quad Flat Pack**33.1868**

A QFP with greater than 196 leads at a pitch of 0.4 millimeters.

高密度塑料方形扁平封装**33.1868**

引线数大于196根，间距为0.4mm的QFP封装。

High-Impedance State**21.0605**

See "Tri-State."

高阻抗状态**21.0605**

见“三态， Tri-State”。

High-Voltage Wire**37.0606**

Insulated wire, with an insulation thickness that is determined by corona-related factors, that is used for voltages over 240 Vac RMS or over 340 Vdc.

高压线**37.0606**

由电晕放电相关因子确定绝缘厚度的一种绝缘线，用于超过240的交流电压（均方根）或超过340V的直流电压（DC）。

Hipot Test**92.0607**

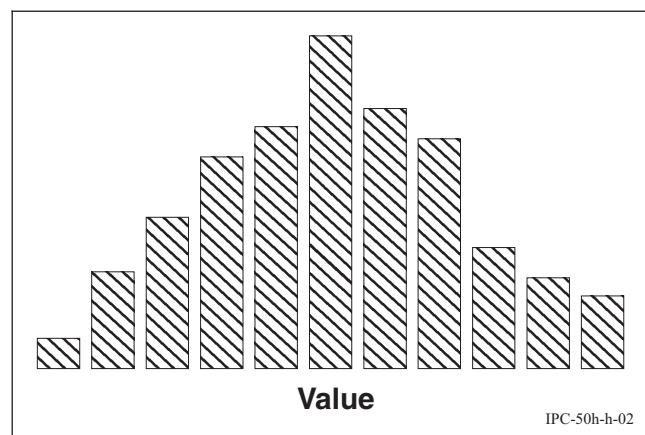
A method in which the unit under test is subjected to a high alternating current (AC) voltage.

高压测试**92.0607**

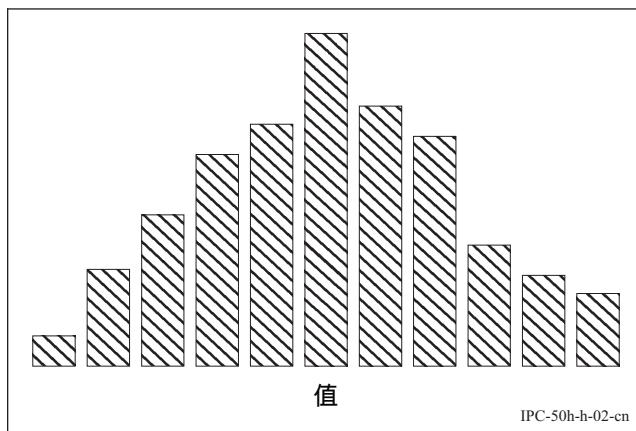
待测单元经受高交流电压测试的方法。

Histogram**91.0608**

A graph that depicts values that were obtained by dividing the range of a data set into equal intervals and that plots the number of data points in each interval. (See Figure H-2.)

**直方图****91.0608**

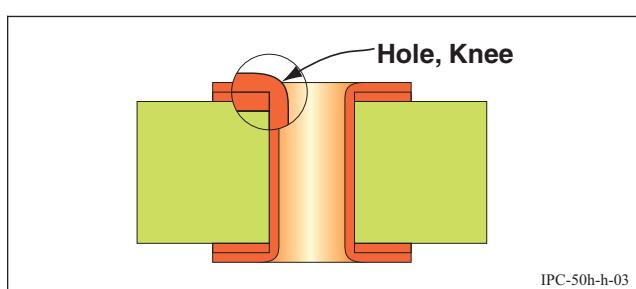
将数据范围设置成等间距并以每个间距内的数据点数来绘制数据值而得到的图。(见图H-2。)



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Hole, Knee**53.1711**

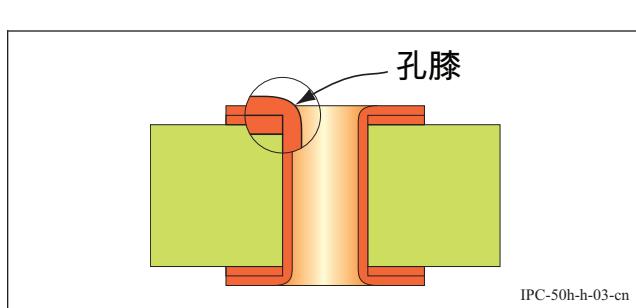
The intersection of the wall of a hole at the outermost surface of the printed board. (See Figure H-3.)



IPC-50h-h-03

孔膝**53.1711**

PCB最外层表面与孔壁的交叉部分。(见图H-3。)



IPC-50h-h-03-cn

Hole Base Positioning**51.1870**

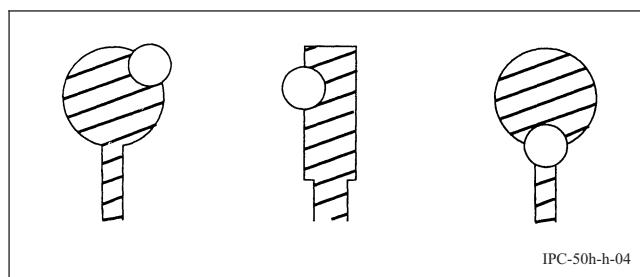
The positioning of a printed board/panel or board assembly/array using tooling holes on the board to facilitate further manufacturing.

孔基准定位**51.1870**

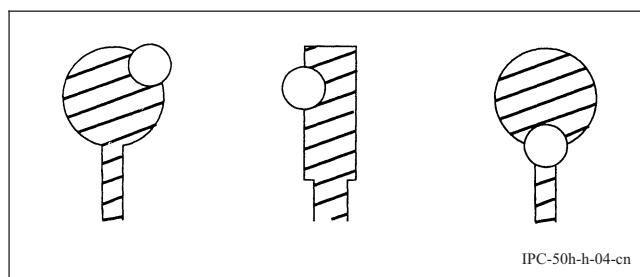
为便于后续的生产，使用板上的定位孔定位印制板/在制板或板组件/排列。

Hole Breakout**60.1699**

A condition in which a hole is not completely surrounded by the land. (See Figure H-4.)

**Figure H-4 Hole Breakout****孔破出****60.1699**

孔未完全被连接盘包围的状况。(见图H-4。)

**图H-4 孔破出****Hole Density****22.0610**

The quantity of holes in a unit area of printed board.

孔密度**22.0610**

单位面积印制板中孔的数量。

Hole Edge Roughness**51.1709**

Unevenness of the edge of a hole formed by drilling or punching.

孔边粗糙度**51.1709**

由于钻孔或冲压孔所形成的孔边缘不平整的情况。

Hole Filling Process**52.1979**

A process of adding a conductive or nonconductive fill material to a plated through-hole, followed by adding an etch resist that covers the hole and its land. The process also includes etching away of the unwanted copper and subsequent stripping of the etch resist.

填孔工艺**52.1979**

将导电或非导电填充材料填加到镀覆孔内，再填加抗蚀剂覆盖孔及其连接盘的过程。该过程还包括蚀刻去除不需要的铜，再剥除抗蚀剂的步骤。

Hole Plugging Process**52.1980**

A process of plugging a plated through-hole with liquid solder mask material after the circuit configuration has been completed in order to prevent chemistry from entering the hole during the assembly process.

塞孔工艺**52.1980**

在电路结构完成之后，为了阻止组装工艺期间化学物质进入孔中，用液体阻焊油墨将镀覆孔堵塞的过程。

Hole Location**22.0611**

The dimensional position of the center of a hole.

孔位**22.0611**

孔中心的位置尺寸。

Hole Pattern**22.1621**

The arrangement of all the holes in a printed board or production board.

孔图**22.1621**

印制板或在制板中所有孔的排列。

Hole Pull Strength**53.0613**

The load or pull force along the axis of a plated-through hole that will rupture the hole.

孔拉出强度**53.0613**

沿镀覆孔的轴向可使孔破裂的负载或拉力。

Hole Roughness**51.1710**

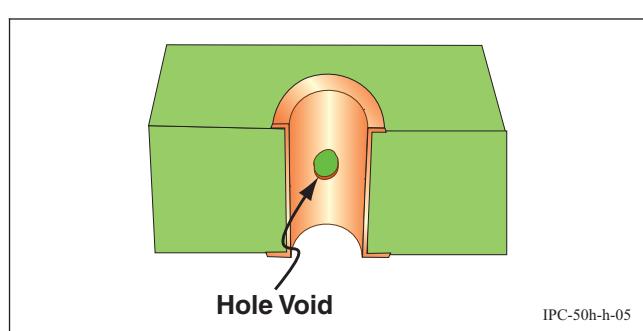
The coarseness of a hole (at the knee of the hole) or on the wall (barrel) of the hole caused by drilling or punching.

孔粗糙度**51.1710**

由于钻孔或冲压孔而导致孔(孔膝处)或孔壁粗糙。

Hole Void**53.0614**

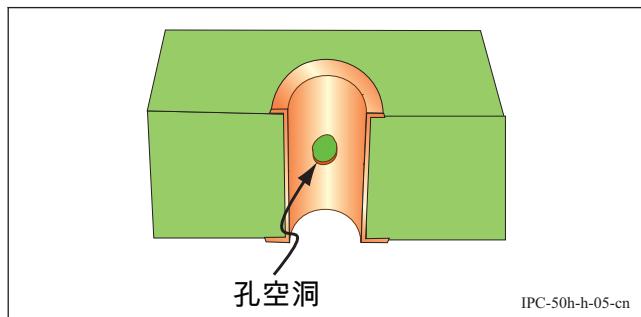
A void in the metallic deposit of a plated-through hole that exposes the base material. (See Figure H-5.)

**Figure H-5 Hole Void**

孔空洞

53.0614

导致镀覆孔金属沉积内暴露出基材的空洞。(见图H-5。)



图H-5 孔空洞

Homocyclic

76.0615

A ring compound containing only one kind of atom in its ring structure.

同素环化合物

76.0615

在环形结构中只含有一种原子的环形化合物。

Homologous Series

76.0616

A series of organic compounds in which each successive member has one more CH₂ group in its molecule than the preceding member.

同源系列

76.0616

其每个后续分子较前一个分子增加一个CH₂基团的有机化合物系列。

Homopolymer

76.0617

A polymer derived from a single monomer with the aid of initiators that act in the manner of catalysts.

均聚物

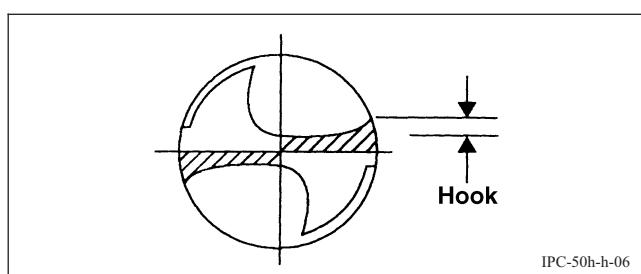
76.0617

在引发剂作用下，以催化的方法单一的单体所形成的聚合物。

Hook

51.0618

The rake condition in the flute face of a drill. (See Figure H-6.)

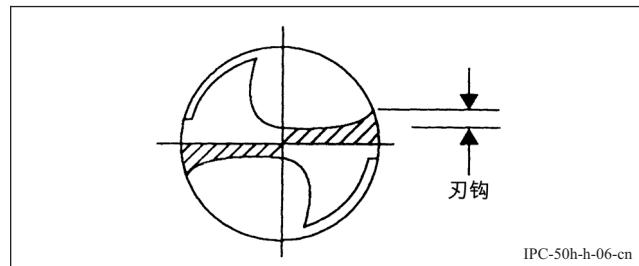


图H-6 Hook

刃钩

51.0618

钻头排屑面的倾斜状态。(见图H-6。)



图H-6 刃钩

Hook Solder Terminal

37.0619

A solder terminal with a curved feature around which one or more wires are wrapped prior to soldering. (See Figure H-7.)

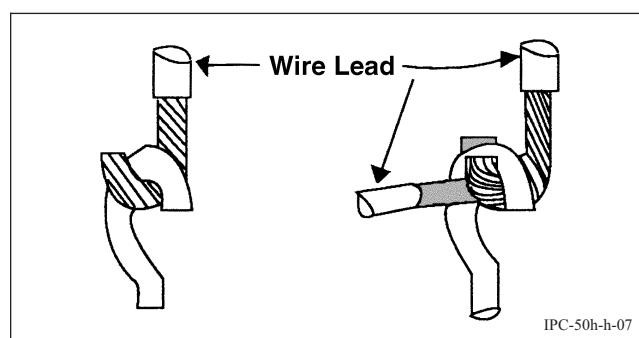
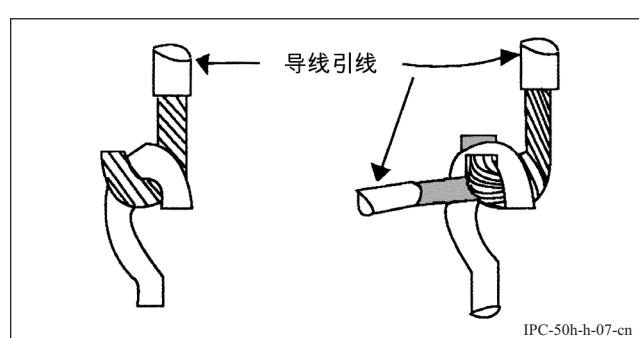


Figure H-7 Hook Solder Terminal

钩形焊接接线柱

37.0619

焊接前可缠绕一条或多条导线的弯曲形状焊接接线柱。(见图H-7。)



图H-7 钩形焊接接线柱

Horn

74.0620

A cone-shaped object that transmits ultrasonic energy from a transducer to a bonding tool.

喇叭

74.0620

将超声波能量从振子传送到键接工具的锥形物体。

Hot Air (Solder) Leveling (HASL)

53.1871

A physical deposition process using a solder bath into which the printed board is immersed into a molten solder bath and withdrawn across a set of hot air knives (forced hot air flow) used to remove excess solder.

热风（焊料）整平（HASL）	53.1871	混合电路	83.1417
物理沉积工艺，即将印制板浸入熔融的焊料槽中，取出后采用一组热风刀（强制热风流）去除印制板上多余的焊料。		在绝缘基材上由薄膜导体、薄膜元器件、半导体芯片、无源元器件和键合金属线等不同互连组合而成的电路。	
Hot Air Reflow Soldering	75.1872	Hybrid Integrated Circuit	83.1418
A method of reflow soldering where heated air is circulated in a reflow chamber.		A circuit comprising insulating base material with various combinations of interconnected film conductors, film components, semiconductor dice, passive components and bonding wire that perform the same function as a monolithic semiconductor integrated circuit.	
热风再流焊接	75.1872	混合集成电路	83.1418
热风在再流焊炉膛内循环加热的再流焊接方法。		在绝缘基材上由薄膜导体、薄膜元器件、半导体芯片、无源元器件和键合金属线等不同互连组合而组成的电路，其能执行与单块半导体集成电路相同的功能。	
Hot Bar	75.1873	Hybrid Microcircuit	83.1419
A bonding tool for soldering leads of TAB of QFP to substrate using local heat and pressure.		A circuit comprising insulating base material with various combinations of interconnected film conductors, film components, semiconductor dice, passive components and bonding wire.	
加热棒	75.1873	混合微电路	83.1419
用局部热量和压力将QFP的TAB引线焊接到基板上的键合工具。		在绝缘基材上由薄膜导体、薄膜元器件、半导体芯片、无源元器件和键合金属线等不同互连组合而成的电路。	
Hot Plate Reflow Soldering	75.1748	Hydrocarbon Tolerance	76.0621
Reflow soldering using direct contact or close proximity to a hot plate as the primary source of heat.		See “Dilution Ratio.”	
热板再流焊接	75.1748	碳氢化合物容限	76.0621
利用发热板的直接接触或紧密作为主要热源而进行的再流焊接。		见“稀释比， Dilution Ratio”。	
Humidity Aging	92.1874	Hydrolytic Stability	76.0622
The exposure to a humid environment as a preconditioning step before a test for component reliability.		The degree of resistance of a polymer to permanent property changes from hydrolytical effects.	
潮湿老化	92.1874	水解稳定性	76.0622
在元器件可靠性测试之前，将其暴露在潮湿环境下进行预处理。		聚合物受水解作用引起永久性的性能变化的耐受程度。	
Humidity Indicator Card (HIC)	92.1875	Hydrophilic Matter	76.0623
A card on which a moisture sensitive chemical is printed such that it will change color from blue to pink when the indicated relative humidity is exceeded.		See “Polar Matter.”	
湿度指示卡 (HIC)	92.1875	亲水物质	76.0623
印有湿敏化学药物质的卡片，当指示卡的颜色由蓝色变为红色时则表示相对湿度超标。		见“极性物质， Polar Matter”。	
Hybrid Circuit	83.1417	Hydrophilic Solvent	76.0624
A circuit comprising insulating base material with various combinations of interconnected film conductors, film components, semiconductor dice, passive components and bonding wire.		See “Polar Solvent.”	
		亲水溶剂	76.0624
		见“极性溶剂， Polar Solvent”。	

Hydrophobic Matter	76.0625	Identical Processing	91.0632
See "Nonpolar Matter."		Fabrication that is conducted under conditions that have demonstrated the capability to produce measurable attributes within a narrow band of variability.	
疏水物质	76.0625	等同加工	91.0632
见“非极性物质， Nonpolar Matter”。		证明能够在很小变化范围内生产可测量特征的条件下进行的生产加工。	
Hydrophobic Solvent	76.0626	Illuminance	24.0633
See "Nonpolar Solvent."		Luminous flux striking a surface.	
疏水溶剂	76.0626	照度	24.0633
见“非极性溶剂， Nonpolar Solvent”。		照射于一个表面的光通量。	
Hydrotrope	76.0627	Illumination	24.0634
A chemical that can increase the aqueous solubility of slightly-soluble organic chemicals.		See "Illuminance."	
水溶助剂	76.0627	照明度	24.0634
能增加难溶有机化学物在水中溶解度的化学物。		见“照度， Illuminance”。	
Hydrotrophe	76.0628	Image Blur	52.1575
See "Hydrotrope."		The state that a part of an image of the original film is not reproduced on the resist or in the pattern transfer.	
水溶助长性	76.0628	图像模糊	52.1575
见“水溶助剂， Hydrotrope”。		原始底片的部分图象不能再现于阻焊剂上或不能形成图形转移的状态。	
Hypersorption	76.0629	Immersion Attitude	75.1749
The process by which activated carbon selectively absorbs less-volatile components from a gaseous mixture while the more-volatile components are unaffected.		The positioning of an object when immersed in a solder bath.	
超吸附	76.0629	浸入位置	75.1749
活性碳从气体混合物中选择性地吸收较低挥发性成分，而易挥发成分不受影响的过程。		物体浸入到焊接槽中的位置。	
Hypotheses Test	91.0630	Immersion Conditions	95.1750
An objective method to determine and quantify, within known levels of risk, whether or not a hypothesis is either accepted or rejected.		Test conditions resulting when surface mount device package leads are immersed into a solder bath to check resistance to soldering temperatures.	
假设测试	91.0630	浸入条件	95.1750
在已知风险水平内，无论假设是接收还是拒收，定性和定量的客观测试方法。		表面贴装器件的封装引线浸入到焊接槽中，以检查耐焊接温度而形成的测试条件。	
I		Immersion Plating	53.0635
Icicle	75.0631	The chemical deposition of a thin metallic coating over certain basis metals that is achieved by a partial displacement of the basis metal.	
See "Solder Projection."		浸镀	53.0635
焊料毛刺	75.0631	在某种金属基材上化学沉积一层薄金属涂覆层，它是通过部分置换金属基材而实现。	
见“焊料拉尖， Solder Projection”。			

Impedance	21.1801	尺寸独立原则	22.0639
The resistance to the flow of current, represented by an electrical network of combined resistance, capacitance and inductance, in a conductor as seen by an AC source of varying time voltage. The unit of measure is ohms.		形位公差要求与要素尺寸变化无关的概念。	
阻抗	21.1801	Index Edge	22.0640
电流通过时的阻力，它相当于电阻、电容和电感作用组合的电气网络，如在导体中看到的电压随时间变化的交流电那样。其计量单位为欧姆。		See “Locating Edge.”	
Impulse Current Soldering	75.1876	标志边	22.0640
See “Parallel-Gap Soldering.”		见“定位边， Locating Edge”。	
脉冲电流焊接	75.1876	Index Edge Marker	22.0641
见“双极焊接， Parallel-Gap Soldering”。		See “Locating Edge Marker.”	
In-Circuit Testing	92.0636	标志边标识	22.0641
The application of test signals directly to a device's input terminals and sensing the results directly from the device's output terminals.		见“定位边标识， Locating Edge Marker”。	
在线测试	92.0636	Indexing Hole	22.0642
直接将测试信号加在器件的输入端，并从器件的输出端检测结果的测试。		See “Tooling Hole.”	
In-Process Inspection	91.1879	标志孔	22.0642
An evaluation of quality characteristics relating to a standard, specification, or design drawing during the manufacturing cycle and prior to completion of all manufacturing processes.		见“定位孔， Tooling Hole”。	
过程检验	91.1879	Indexing Notch	22.0643
在制作过程中和所有制作过程完成之前，根据标准、规范或设计图纸对质量特征的评定。		See “Locating Notch.”	
Inclusions	90.0637	标志口	22.0643
Foreign particles, metallic or nonmetallic, that may be entrapped in an insulating material, conductive layer, plating, base material, or solder connection.		见“定位切口， Locating Notch”。	
夹杂物	90.0637	Indexing Slot	22.0644
夹裹在绝缘材料、导体层、镀层、基材、或焊接连接中的金属或非金属外来颗粒。		See “Locating Slot.”	
Indentation	45.0638	标志槽	22.0644
See “Dent.”		见“定位槽， Locating Slot”。	
凹痕	45.0638	Individual Test Pattern (ITP)	24.1791
见“压痕， Dent”。		A single test pattern designed and intended to serve a specific evaluation technique for determining a particular aspect(s) of a manufacturer or manufacturing process capability.	
Independent of Size	22.0639	单独测试图形 (ITP)	24.1791
The concept that requires the tolerance of form or position to vary independent of, and without regard to, feature size.		为了确定制造商或制造过程在某一方面的能力而设计并用于特定评估的单独测试图形。	
Individual Test Specimen (ITS)		Individual Test Specimen (ITS)	92.1790
		A single test specimen that contains an individual test pattern (ITP) and is used to determine a particular aspect(s) of a manufacturer or manufacturing process capability.	
单独试样 (ITS)		单独试样 (ITS)	92.1790
		含有一个单独测试图形 (ITP) 的单个试样，用于测定制造商或制作过程在某一方面的能力。	

Inductance	21.1802	Inorganic Flux	75.0647
The property of a conductor that allows it to store energy in a magnetic field induced by a current flowing through it. The unit of measure is henry (H).		An aqueous flux solution of inorganic acids and halides. (See also "Acid Flux.")	
电感	21.1802	无机助焊剂	75.0647
由于电流流过导线而产生磁场，使导体储存能量的特性。其计量单位是亨利 (H)。		含有无机酸和卤化物的水溶性助焊剂溶液。(又见“酸性助焊剂， Acid Flux”。)	
Infrared Reflow (IR)	75.1751	Input Vector	92.0648
Remelting of solder using infrared heating as the primary source of energy.		A set of logic values to be applied to the complete set of input test points at any one point in time.	
红外再流 (IR)	75.1751	输入矢量	92.0648
利用红外加热作为主要能源使焊料重熔。		被及时施加到整组输入测试点中任意点的一组逻辑值。	
Infrared Soldering	75.1877	Insert (Connector)	37.1420
A reflow soldering using infrared energy as the source of heat. (See "Infrared Reflow.")		The element that holds connector contacts in their proper arrangement and electrically insulates the contacts from one another and from the connector shell.	
红外焊接	75.1877	嵌入物 (连接器)	37.1420
利用红外能量作为热源的再流焊接。(又见“红外再流， Infrared Reflow”。)		可保持连接器接触件正确排列，并使接触件相互绝缘，且与连接器外壳绝缘的零件。	
Initiating	53.0645	Insertion Loss	21.1880
See "Activating."		The ratio of transmitted electromagnetic power to incident power, usually expressed in decibel (dB) units. This loss of power includes losses by conversion to heat in the dielectric and in the conductors.	
引发	53.0645	插入损耗	21.1880
见“活化， Activating”。		输出的电磁功率与入射波功率之比，通常用单位分贝 (dB) 表示。功率的损耗包括在电介质和导体内转换成热的损耗。	
Inner Layer	22.1878	Inspection Facility	92.1421
See "Internal Layer."		The combination of equipment, personnel, and procedure resources that perform inspection measurements and evaluations for the purpose of ascertaining the conformance of a product to applicable specifications.	
内层	22.1878	检验设施	92.1421
见“内层， Internal Layer”。		为确定产品与适用技术规范的符合性而完成检验测量和评定的设备、人员与程序资源的组合。	
Inner-Lead Bond (ILB)	74.0646	Inspection Lot	92.1422
The connection between a conductor on a bonding tape and a bare die. (See also "Outer-Lead Bond.")		A collection of units of product that are identified and treated as a unique entity from which a sample is drawn and inspected in order to determine conformance with acceptability criteria.	
内引线键合 (ILB)	74.0646		
键合带上的导体与裸芯片之间的连接。(又见“外引线键合， Outer-Lead Bond”。)			
Innerlayer Connection	22.1427		
A conductor that connects conductive patterns on internal layers of a multilayer printed board, e.g., a plated-through hole. (See also "Interfacial Connection.")			
层间连接	22.1427		
连接多层印制板内层上导电图形的导体，如镀覆孔。(又见“面间连接， Interfacial Connection”。)			

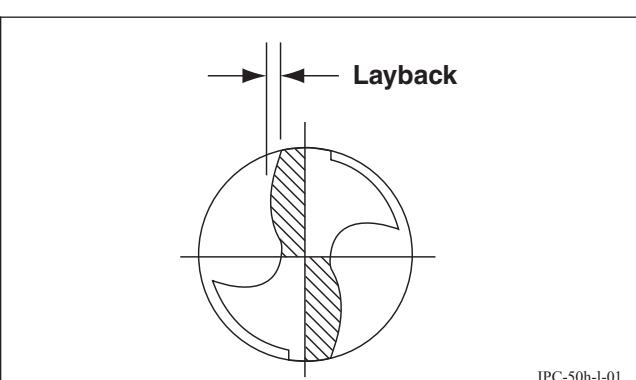
检验批	92.1422	绝缘体	40.1813
作为特定的整体鉴别和处理的产品单元集合，从中抽取一个样品检验来确定其与所适用可接受性准则的符合性。		对电流流动具有高阻抗的材料。(又见“电介质，Dielectric”。)	
Inspection Overlay	91.0649	Insulation Resistance	21.1425
A positive or negative transparency that is made from the production master and that is used as an inspection aid.		The electrical resistance of an insulating material that is determined under specific conditions between any pair of contacts, conductors, or grounding devices in various combinations.	
覆盖检验板	91.0649	绝缘电阻	21.1425
由生产底版制成的正相或反相透明底片，用作检验的辅助工具。		在规定条件下，任何一对各种组合的接触件、导体、或接地装置之间测得的绝缘材料的电阻。	
Inspection Personnel	92.0650	Integrated Circuit	30.1426
Those individuals that inspect products for the purpose of ascertaining the conformance of a product to applicable specifications.		A combination of inseparable associated circuit elements that are formed in place and interconnected on or within a single base material to perform a particular electrical function.	
检验人员	92.0650	集成电路	30.1426
为确定产品与适用规范的符合性而检验产品的人员。		为执行特定的电气功能，在单一的基材上面或内部形成并实现互连的一种不可分割的电路元器件组合。	
Inspection Rate	92.0651	Integrated Passive Component	30.2162
The number of features per unit of time that can be evaluated at specified false-alarm and escape-rate settings.		A passive electrical component (resistor, capacitor, etc.) that is embedded and integrated within the cross section, or layers, of a printed board.	
检验速率	92.0651	集成被动（无源）元器件	30.2162
在规定的假警报和漏失率的设定下，单位时间内能被评定的要素的数量。		埋入或集成入印制板横截面内或多层内的被动（无源）电气元器件（电阻、电容等）。	
Instrument Bus	21.1423	Inter-Test Time (ITT)	92.0652
Four common lines or channels to which any analog test instrument can be connected via a multiplexer and any unit under test circuit mode that can be connected via a scanner.		The duration between two successive driver strobes.	
测试仪器总线	21.1423	测试间隔时间 (ITT)	92.0652
四条公共线路或通道，可通过多路转换器与任何模拟测试仪器连接，也可通过扫描仪与待测试电路模型的任一单元连接。		驱动器两个连续选通脉冲之间的持续时间。	
Insufficient Solder Connection	97.1424	Interconnection Density	22.1822
A solder connection that is characterized by the incomplete coverage of one or more of the surfaces of the connected metals and/or by the presence of incomplete solder fillets.		The average number of conductors, based on conductor width and clearance, that may be routed in a prescribed unit area, e.g., cm^2 , considering that there is no restriction within the area to the routing condition and that the conductor length is equal to the unit length of the prescribed area.	
焊接连接不充分	97.1424	互连密度	22.1822
被连接金属出现一个或多个表面未被完全覆盖和/或焊料填充不完整的焊接连接。		基于导体宽度和间隔，在规定的单位面积内如 cm^2 可以布局的导体平均数，考虑到布局状况区域没有限制，导体长度等于规定面积的单位长度。	
Insulation	40.1813	Interface Resistance	37.0653
A material with a high resistance to the flow of electrical current. (See also “Dielectric.”)		See “Contact Resistance.”	

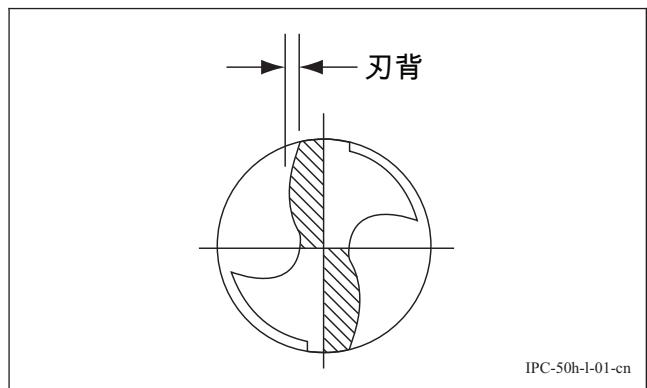
界面电阻	37.0653	Internal Capability Assessment	91.1881
见“接触电阻， Contact Resistance”。		Periodic supplier verification of data captured through process control and analyzed for variation that exceeds the performance limits desired by the manufacturing processes.	
Interfacial Connection	22.0654	内部能力评估	91.1881
A conductor that connects conductive patterns on both sides of a printed board, e.g., a plated-through hole. (See also “Interlayer Connection.”)		通过获取供应商过程控制的数据并分析超出制造过程所希望的性能极限的变异，对其进行周期性验证。	
面间连接	22.0654	Internal Layer	22.0658
连接印制板两面导电图形的导体，如镀覆孔。(又见“层间连接， Interlayer Connection”。)		A conductive pattern that is contained entirely within a multilayer printed board.	
Intergranular Corrosion	76.0655	内层	22.0658
Corrosion that occurs preferentially at grain boundaries.		完全包含在多层印制板内部的导电图形。	
晶间腐蚀	76.0655	Interposer	30.2153
首先在晶粒分界处发生的腐蚀。		A material placed between two surfaces giving electrical insulation, redistribution of electrical connections, mechanical strength and/or controlled mechanical and thermal separation between the two surfaces.	
Interlaminar Metallization	53.0656	中介基板	30.2153
Metal through-migration that is the result of metal deposition or migration along delaminated areas of the interior of a laminate.		介于两个表面之间的一种材料，可实现两个表面的电气绝缘、重新分布电气连接、并可提高机械强度、控制两个表面的机械和热分离。	
层内金属化	53.0656	Interstitial Via	22.0659
沿着层压板内部分层部位发生金属沉积或迁移，导致金属贯穿迁移。		See “Blind Via” and “Buried Via.”	
Interlayer Connection	22.1614	中间孔	22.0659
An electrical connection between two or more layers of conductive patterns on or in a printed board.		见“盲孔， Blind Via” 和“埋孔， Buried Via”。	
层间连接	22.1614	Intrusive Soldering	75.1882
印制板上或内部不同层导电图形之间的电气连接。		A process in which the solder paste for the through-hole components is applied using a stencil or syringe to accommodate through-hole components that are inserted and reflow-soldered together with the surface-mount components.	
Intermetallic Compound, Solder	75.1428	通孔再流焊接	75.1882
An intermediate layer in a wetted solder connection between the wetted surface and the solder, consisting of the solution of at least one constituent of the wetted surface and at least one constituent of the solder.		采用漏印模板或注射器给通孔插装元器件施加焊膏，使通孔插装元器件与表面贴装元器件一起完成再流焊接的工艺。	
焊料金属间化合物	75.1428	Intumescence	56.0660
由被润湿表面的至少一种成分与焊料的至少一种成分所组成的位于润湿表面与焊料之间的润湿焊点内的中间层。		The foaming or swelling of a material when it is exposed to high surface temperatures or flames.	
Intermittent Fault	97.0657	膨胀	56.0660
A fault whose effect on a circuit appears and disappears at irregular intervals.		材料暴露于高表面温度或火焰时发生的起泡和膨胀。	
间歇故障	97.0657		
以不规则的间隔出现和消失而影响电路的故障。			

Ion Exchange	76.0661	喷射波峰焊接	75.1886
A reversible chemical reaction between a solid and a fluid by means of which ions are interchanged from one substance to another.		采用泵强制焊料向上通过一个窄缝形成焊料喷射的波峰焊接。	
离子交换	76.0661	Job Set	25.0664
利用一种固体和一种液体之间离子从一种物质到另一种物质之间的交换而进行的可逆化学反应。		A group of one or more data-information modules.	
Ionic Cleanliness	76.0663	作业包	25.0664
The degree of surface cleanliness with respect to the number of ions or weight of ionic matter per unit square of surface.		一个或多个数据信息模块组合。	
离子清洁度	76.0663	Jumper Wire	37.0665
用单位表面积内所含有的离子数量或离子物质重量来表示表面清洁的程度。		A discrete electrical connection that is part of the original design and is used to bridge portions of the basic conductive pattern formed on a printed board.	
Ionizable (Ionic) Contamination	76.1222	跳线	37.0665
A polar (ionic) compound, usually a processing residue, that dissolves in water as free ions. (This includes flux activators, finger prints, etching or plating salts, etc., that decrease the resistivity of water when they are dissolved in it.)		一种分立的电气连接，是原始设计的一部分，用于跨接印制板上形成的部分基本导电图形。	
可电离（离子）污染物	76.1222	Junction Temperature	35.0666
一种极性（离子）混合物，通常是加工后的残留物，溶于水中成为自由离子（包括助焊剂的活化剂、手指印、蚀刻或电镀盐等，它们溶于水时，能降低水的电阻率。）		The temperature of the region of a transition between the p-type and n-type semiconductor material in a transistor or diode element.	
Isotropy	40.1885	结温度	35.0666
The condition for a substance having a value for a property that is the same in all directions.		晶体管或二极管元器件中P型和N型半导体材料之间过渡区的温度。	
各向同性	40.1885	Just-in-Time (JIT)	17.1429
物质在所有方向上都有相同特性值的状态。		Production control techniques that minimize inventory by delivering parts and material to a manufacturing facility just before they are incorporated into a product.	
J		即时管理 (JIT)	17.1429
J-Leads	36.1752	使库存量保持最少的生产控制技术，即就在产品开始生产之前，才将其所需的零部件和材料送至制造车间。	
The preferred surface mount lead form used on PLCCs, so named because the lead departs the package body near its Z axis centerline, is formed down and then rolled under the package. Leads so formed are shaped like the letter "J."		K	
J型引线	36.1752	Kerf	77.0667
首选用于PLCC的表面贴装引线形式，引线从靠近封装本体的Z轴中心线向外伸出，并向下延伸，然后再向内弯曲至封装体底部，这样成型的引线类似字母“J”，因此得名。		A laser-beam or abrasive-jet cut (slit) in a film component as a part of the trimming operation.	
Jet Wave Soldering	75.1886	切口	77.0667
A type of wave soldering that uses a pump to force solder up through a narrow slit to form a solder jet.		膜元器件内激光束或磨削射流的切口，作为修整操作的一部分。	
Key	37.0668	Key	37.0668
A device that assures that the coupling of two components can occur in only one position.			
锁键	37.0668	确保两个元器件接合仅处于唯一位置的装置。	

Keying (n.)	37.1430	Known Good Assembly (KGA)	92.0670
A device that is used in addition to, or in lieu of, a polarization feature to assure that the coupling of identical mating components can occur in only one position.			A correctly operating printed board assembly that serves as a standard unit by which others can be compared.
锁定键 (名词)	37.1430	已知好组件 (KGA)	92.0670
用于补充或代替极性要素的装置，确保相同配接组件的接合处于唯一位置。			运行正常的印制板组件，可作为其它组件与之对比的标准组件。
Keying	37.1431	Known Good Die (KGD)	35.0846
The use of a device in addition to, or in lieu of, a polarizing feature to assure that the coupling of identical mating components can occur in only one direction.			A die-form semiconductor product that provides assurance of equivalent quality and reliability as its conventionally packaged counterparts.
键锁定 (动词)	37.1431	已知良好芯片 (KGD)	35.0846
使用补充或代替极性要素的装置，确保相同配接元器件的接合仅处于唯一位置。			芯片形式的半导体产品，同其按惯例封装的对应物一样可提供同样的品质和可靠性保证。
Keying Slot	22.1432	Known Tested Die (KTD)	92.2150
A slot in a printed board that permits the printed board assembly to be plugged into its mating connector and prevents the board from being plugged into any other connector. (See also "Polarizing Slot.")			A die-form semiconductor product functionally verified by probing tests equal to the expected performance of the packaged product, without full quality assurance by supplier(s). The requirements for testing are AABUS.
键槽	22.1432	已测试合格芯片 (KTD)	92.2150
只能使印制板组件插入与之配接的连接器中，并防止板插入到其它连接器中的印制板内的槽。(又见“极性槽，Polarizing Slot”。)			通过探针测试验证其功能与封装产品的预期性能相同的芯片形式的半导体产品，但无供应商的完全质量保证。测试要求由供需双方协商确定。
Keyway	37.0669	Kovar	45.1888
A general term that encompasses both keying slots and polarizing slots.			An alloy of 53% iron, 17% cobalt, 29% nickel and trace elements, with a thermal expansion approximately matching that of alumina ceramics and sealing glasses.
键销槽	37.0669	科瓦铁镍钴合金	45.1888
包括键槽和极性槽的通用术语。			由53%的铁，17%的钴，29%的镍和其他微量元素组成的合金，其热膨胀与氧化铝陶瓷及密封玻璃相匹配。
Knot (Base Materials)	44.1887	L	
A clump of reinforcement material formed either by the yarn within the web of the fabric or which was deposited onto the web during the treating process.			
节瘤 (基材)	44.1887	L Cut	77.1433
由纤维布网中纱线或者在处理过程中沉积在布网上的纱线形成的增强材料块。			A trim notch in a film component that is created by a cut that starts perpendicular to the component's major axis and then turns ninety degrees to complete the trimming operation.
Known Good Board (KGB)	92.0671	L形切割	77.1433
A correctly fabricated printed board that serves as a standard unit by which others can be compared.			膜元器件内的修整槽，从垂直于元器件主轴开始切割，然后转90°而完成修整操作。
已知好板 (KGB)	92.0671	Laminate (n.)	55.0672
制作正确的印制板，可作为其它板与之对比的标准板。			A product made by bonding together two or more layers of material.
层压板 (名词)		层压板 (名词)	55.0672
将两层以上材料粘合在一起制成的产品。			

Laminate Thickness	41.0673	盘栅阵列 (LGA)	33.1891
The thickness of single- or double-sided metal-clad base material prior to any subsequent processing. (See also "Board Thickness.")		位于封装体底部的盘状端子排成栅格阵列的矩形元器件封装。	
层压板厚度	41.0673	Land Pattern	22.0678
在任何后续加工前，单面或双面覆金属箔基材的厚度。(又见“板厚度，Board Thickness”。)		A combination of lands that is used for the mounting, interconnection and testing of a particular component.	
Laminate Void	91.0674	连接盘图形	22.0678
The absence of resin or adhesive in an area that normally contains them.		用于特定元器件安装、互连和测试的连接盘组合。	
层压板空洞	91.0674	Land Tearing	96.1892
在应正常含有树脂或粘合剂的区域未见树脂或粘合剂。		The tearing of a land from a base material during a test of land adhesion robustness.	
Lamination (Dry Film)	52.1889	连接盘撕裂	96.1892
The process of adhering a dry film photo resist or solder mask to a substrate utilizing heat and pressure.		测试连接盘粘接强度过程中，连接盘与基材撕裂。	
贴膜（干膜）	52.1889	Land Width Angle (Drill)	51.1223
利用热量和压力，将光致干膜或阻焊膜附着在基板上的过程。		The angle between the leading edge and the heel of a drill land as measured at the drill axis.	
Lamination (Multilayer)	55.1890	刃带宽度角（钻头）	51.1223
The process of bonding one or more innerlayers together with an adhesive layer or layers (such as pre-preg) utilizing a combination of heat and pressure.		在钻头轴处测量所得的钻头刃带的前缘到后棱之间的夹角。	
层压（多层）	55.1890	Land Width (Drill)	51.0679
利用热量和压力，用粘合层（如半固化片）将一个或多个内粘接在一起的过程。		The perpendicular distance from the leading edge to the heel of a drill land.	
Land	22.1622	刃带宽度（钻头）	51.0679
A portion of a conductive pattern usually used for the connection and/or attachment of components.		从钻头刃带的前缘到后棱的垂直距离。	
连接盘	22.1622	Landless Hole	22.0677
通常用于连接和/或固定元器件的导电图形部分。		A plated-through hole without land(s).	
Land (Drill)	51.0676	无连接盘孔	22.0677
The peripheral portion of the drill body that is between adjacent drill flutes.		没有连接盘的镀覆孔。	
刃带（钻头）	51.0676	Landless Via	22.1893
钻头的相邻排屑槽之间的周边部分。		A via in which the land diameter is designed to be less than or equal to the via diameter.	
Land Grid Array (LGA)	33.1891	无连接盘导通孔	22.1893
A generic rectangular component package with termination lands located in a grid pattern on the bottom of the package.		连接盘直径设计为小于或等于导通孔直径的导通孔。	
		Lap Shear Strength	74.0680
		The shearing pressure at which an adhesive-bonded (and cured) lap joint fails. (See also "Shear Strength" and "Torsional Strength.")	

搭接剪切强度	74.0680	激光焊接	75.1897
使粘合剂粘合（并已固化）的搭接点失效的切剪压力。（又见“剪切强度，Shear Strength”和“抗扭强度，Torsional Strength”。）		通过光聚中并将激光束施加于待焊部件或其单根引线上，实现再流焊接的方法。	
Large-Scale Integration (LSI)	30.0681	Laser Trimming	77.0682
An integrated circuit with over 100 gates.		The modification of a film component's value by the removal of film by applying heat from a focused laser source.	
大规模集成电路 (LSI)	30.0681	激光修整	77.0682
多于100个门的集成电路。		通过采用聚焦激光源的热量去除膜来改变膜元器件的值。	
Larger-the-Better Characteristic	91.1434	Laser Via	22.1898
A parameter of quality that improves performance as its value increases. (See also "Nominal-Is-Best Characteristic" and "Smaller-the-Better Characteristic.")		See "Microvia (Build-Up Via)."	
越大越好特性	91.1434	激光导通孔	22.1898
其数值增加时性能改进的质量参数。（又见“标称最佳特性，Nominal-Is-Best Characteristic”和“越小越好特性，Smaller-the-Better Characteristic”。）		见“微导通孔（叠层导通孔），Microvia (Build-Up Via)”。	
Laser Bonding	53.1894	Latch (Connector)	37.0683
A process effecting a metal-to-metal bond of two conductors by welding them together with a laser beam as a heat source.		A device at both ends of a connector header that is used to hold in place and eject a mating receptacle connector.	
激光键合	53.1894	弹簧锁（连接器）	37.0683
用激光束作为加热源将两个导体焊接在一起形成金属与金属键合的过程。		连接器的顶盖两端的装置，用于固定位置和弹出配接的连接器插座。	
Laser Direct Imaging (LDI)	52.1895	Layback	51.0684
The selective exposure of patterns onto a photosensitive material (such as dry film or liquid) without using a working phototool (artwork master).		The negative rake angle or rolled condition in the face of a drill flute. (See Figure L-1.) (See also "Hook" and "Overlap, Drill.")	
激光直接成像 (LDI)	52.1895	 IPC-50h-l-01	
不采用底片（照相底版）在光敏材料（如干膜或湿膜）上进行选择性图形曝光的方法。		Figure L-1 Layback	
Laser Scanner (Bar Code)	70.1896	刃背	51.0684
A bar code scanner that uses laser technology to read bar codes; has the ability to read from distances and on curved surfaces.		钻头排屑槽面的负倾斜角或卷曲状态。（见图L-1。）（又见“刃钩，Hook”和“钻头重叠，Overlap, Drill”。）	
激光扫描器（条码）	70.1896		
采用激光技术阅读条码的条码扫描器，其具备从远距离及从曲面上读取条码的能力。			
Laser Soldering	75.1897		
Method to reflow solder by optically concentrating and applying a laser beam to the part to be soldered or its individual leads.			



图L-1 刀背

Lay-up**55.1900**

The process of combining one or more innerlayers, and prepreg or adhesive layer(s) into a lamination package. The package may consist of innerlayers, outerlayers and copper foil.

层叠**55.1900**

将一张或多张印制板内层、半固化片或粘结层结合到一个层压包内的过程。层压包可由内层、外层和铜箔组成。

Layer**22.1624**

Stratum of a printed board. Layers are differentiated according to their function (conductor layer, insulating layer) and their location.

层**22.1624**

印制板层，可根据其功能（导体层、绝缘层）及其位置进行区分。

Layer-to Layer-Registration**55.1899**

The process of aligning circuit features (lands) on individual layers of a printed board through the use of tooling image location features (fiducials) or tooling holes.

层间对位**55.1899**

通过使用定位图像的位置特征（基准点）或定位孔，使印制板对准每个独立层的电路要素（连接盘）的过程。

Layer-to-Layer Spacing**22.0686**

The thickness of dielectric material between adjacent layers of conductive patterns in a printed board. (See Figure L-2.)

层间距**22.0686**

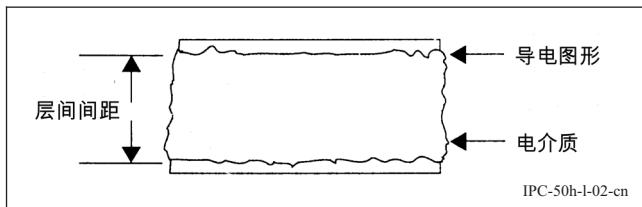
印制板中相邻导电图形之间电介质材料的厚度。（见图L-2。）

Leaching, Metallization**75.0687**

The loss or removal of a basis metal or coating during a soldering operation.



图L-2 层间距



图L-2 层间距

金属层浸析**75.0687**

焊接过程同金属基材或涂覆层的流失或转移。

Lead**36.0688**

A length of insulated or uninsulated metallic conductor that is used for electrical interconnections.

引线**36.0688**

用于电气互连的一段绝缘或非绝缘金属导体。

Lead Extension**75.0691**

That part of a lead or wire that extends beyond a solder connection.

引线延伸**75.0691**

延伸在焊点之上的导线或金属线部分。

Lead Fingers**36.1901**

The interior ends of the lead frame leads to which the bond wires are connected to complete the circuit from the integrated circuit die bond lands.

引线手指**36.1901**

与键合金属线连接的引线框架引线内端，通过金属线再与集成电路芯片键合连接形成电路。

Lead Frame**36.1902**

The metallic portion of the device package on which the integrated circuit die is mounted and connected from the die or dice bonding sites to the structure that becomes the outer leads of the package.

引线框架**36.1902**

集成电路芯片安装在其上的器件封装金属部分，它将芯片或裸芯片键合点与该结构连接起来，而成为封装的外引线。

Lead Free Plating	45.1903
A metallic plating with an alloy containing no more than 0.1% of lead.	
无铅镀层	45.1903
合金内铅含量不多于0.1%的金属镀层。	
Lead Free Solder	75.1904
An alloy that does not contain more than 0.1% lead (Pb) by weight as its constituent and is used for joining components to substrates or for coating surfaces.	
无铅焊料	75.1904
其组成成份中铅的重量百分比不大于0.1%的合金，用于将元器件连接到基板或涂覆层表面。	
Lead Mounting Hole	22.0695
See "Component Hole."	
引线安装孔	22.0695
见“元器件孔， Component Hole”。	
Lead Pin	36.0696
See "Component Pin."	
引线插针	36.0696
见“元器件插针， Component Pin”。	
Lead Projection	73.0697
The distance that a component lead protrudes through the side of a printed board that is opposite from the one upon which the component is mounted.	
引线伸出长度	73.0697
元器件引线从与元器件安装面相对的印制板面伸出的距离。	
Lead Wire	36.0698
See "Component Lead."	
引线	36.0698
见“元器件引线， Component Lead”。	
Leaded Chip Carrier	31.1224
A chip carrier whose external connections consist of leads that are around and down the side of the package. (See also "Leadless Chip Carrier.")	
有引线芯片载体	31.1224
其外部连接由围绕封装体四周并延伸至底部的引线组成的芯片载体。(又见“无引线芯片载体， Leadless Chip Carrier”。)	

Leaded Surface-Mount Component	33.1435
A surface-mount component for which external connections consist of leads that are around and down the side of the package. (See Figure L-3.) (See also "Leadless Surface-Mount Component.")	

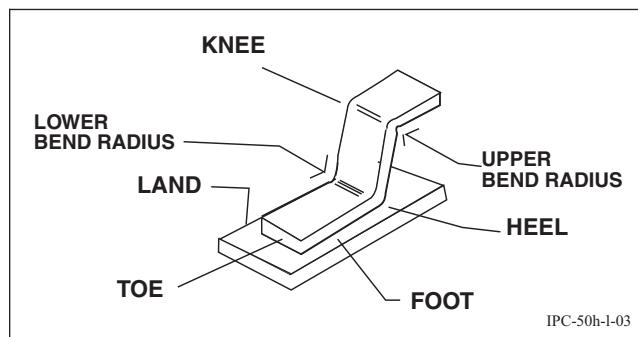
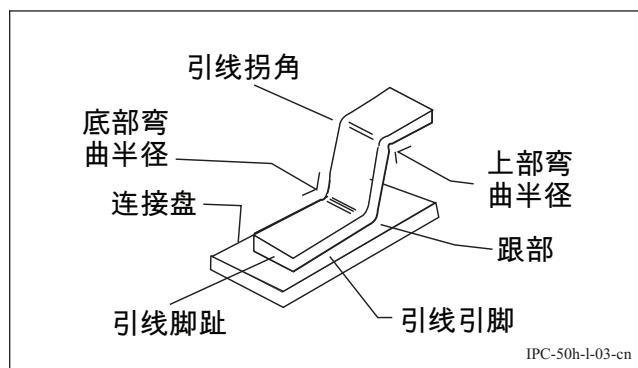


Figure L-3 Leaded-Surface Mount Component Gull-Wing Shaped Lead

有引线表面贴装元器件	33.1435
其外部连接由围绕封装体四周并延伸至底部的引线构成的表面贴装元器件。(见图L-3。)(又见“无引线表面贴装元器件， Leadless Surface Mount Components”。)	



图L-3 翼形有引线表面安装元件

Leadless Chip Carrier	33.1436
A chip carrier whose external connections consist of metallized terminations that are an integral part of the component body. (See also "Leaded Chip Carrier.")	

无引线芯片载体	33.1436
由同属元器件本体的金属化端接点构成外部连接的芯片载体。(又见“有引线芯片载体， Leadless Chip Carrier”。)	

Leadless Component	30.1754
See "Leadless Surface Mount Components."	

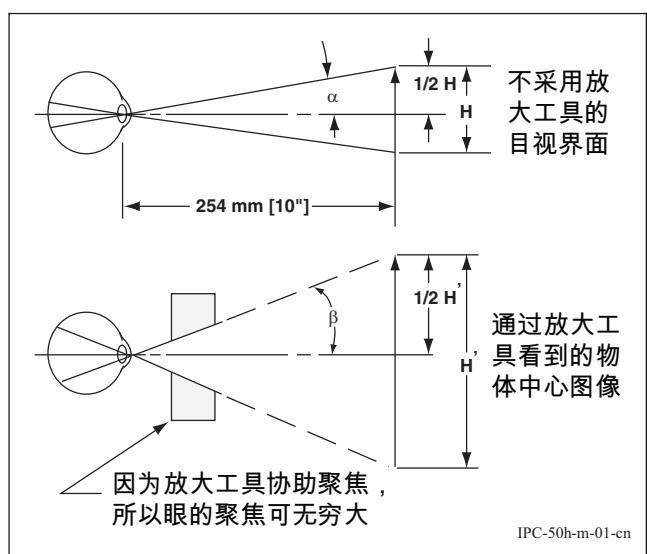
无引线元器件	30.1754
见“无引线表面贴装元器件， Leadless Surface Mount Components”。	

Leadless Device	33.0694	Legend	22.1439
See "Die" and "Leadless Surface Mount Component."		A format of letters, numbers, symbols and patterns that are used primarily to identify component locations and orientations for convenience of assembly and maintenance operations.	
无引线器件	33.0694	图例	22.1439
见“芯片， Die”和“无引线表面贴装元器件， Leadless Surface Mount Component”。		印制板上主要用来识别元器件位置和方向的字母、数字、图形和符号格式，以便于组装和维护操作。	
Leadless Inverted Device	33.1437	Leno End Out	44.0702
A single or multiple device package, where integrated circuits and/or passive devices are mounted in a cavity on the bottom of a leadless ceramic or organic carrier, which is inverted for surface mount attachment to a printed board assembly.		Warp-end wrapper that is missing from the end of a fabric.	
无引线倒置器件	33.1437	纱罗边毛边	44.0702
单个或多个器件的封装，集成电路和/或被动(无源)器件放置在无引线陶瓷或有机载体底部腔体内，将其倒置，形成与印制板组件的表面贴装连接。		织物末端由经纱作收口的纱罗边松脱。	
Leadless Surface-Mount Component	33.1438	Leveling	56.0703
A surface-mount component whose external connections consist of metallized terminations that are an integral part of the component body. (See also "Leaded Surface-Mount Component.")		See "Fusing and HASL/HAL"	
无引线表面贴装元器件	33.1438	整平	56.0703
其外部连接由已成为元器件本体整体部分的金属端子组成的表面贴装元器件，（又见“有引线表面贴装元器件， Leaded Surface-Mount Component”。）		见“熔融和HASL/HAL， Fusing and HASL/HAL”。	
Leakage Current	21.0699	Leveling Flux	56.0704
The undesired flow of electrical current over or through an insulator.		See "Fusing Flux."	
泄漏电流	21.0699	整平助焊剂	56.0704
非期望的流经绝缘体的电流。		见“热熔助焊剂， Fusing Flux”。	
Learn Time	92.0700	Leveling Oil	56.0705
The time it takes to do initial programming (teaching) to store feature coordinate locations and other data in an inspection/test machines memory.		See "Fusing Oil."	
学习时间	92.0700	整平油	56.0705
为将要素坐标位置存储在检测/测试机的存储器中进行程序初始化所需要的时间。		见“热熔油， Fusing Oil”。	
Least Material Condition (LMC)	22.0701	Library	20.0706
The condition in which a feature of size contains the least amount of material within the stated limits of size.		A catalog of related items that contains all of the information about the items that is necessary for processing by a computer program.	
最小材料条件 (LMC)	22.0701	库	20.0706
实际要素在规定的尺寸范围内含有最少量材料的状态。		指计算机程序处理所需要的全部信息内容的目录汇编。	
Lifted Land		Lifted Land	60.0707
		A land that has fully or partially separated (lifted) from the base material, regardless of whether or not any resin is lifted with the land.	
连接盘浮起		连接盘浮起	60.0707
		连接盘与基材全部或部分分离（浮起），无论树脂是否随连接盘浮起。	
Lift-off		Lift-off	97.1905
		See "Solder Fillet Lifting."	

升高	97.1905	Load Capacitance	21.0713
见“焊料填充起翘， Solder Fillet Lifting”。		The capacitance seen by the output of a logic circuit or other signal source.	
Light Mark (Fabric)	44.0708	负载电容	21.0713
A filling defect that extends across the width of a fabric containing less than one pick per 25 mm from nominal.		逻辑电路或其它信号源输出的电容量。	
薄段（织物）	44.0708	Load Time	92.0714
织物整个幅宽方向的纬向瑕疵，每25毫米长度的纬线数比标称值缺少1根以上。		The time it takes to load a unit in an inspection/test machine and to perform any necessary programming or machine alignment.	
Limits of Size	20.0709	装载时间	92.0714
The specified maximum and minimum sizes.		在检验或测试仪器上装载一个测试单元以及进行一切必要的编程或机械调整所耗费的时间。	
尺寸界限	20.0709	Loading Direction	70.1907
规定的最大和最小尺寸。		The direction of board passing through an assembly line viewed from the operator side.	
Line	20.0710	装载方向	70.1907
See “Conductor Trace.”		从操作人员的视点看电路板流经装配线的方向。	
线	20.0710	Local Fiducial	20.0715
见“导体线条， Conductor Trace”。		A fiducial mark (or marks) used to locate the position of a land pattern for an individual component on a printed board.	
Line Coupling	21.0711	局部基准点	20.0715
The interaction between two transmission lines that is caused by their mutual inductance and the capacitance between them.		印制板上用来确定印制板上个别元器件连接盘图形位置的基准点（或标记）。	
传输线耦合	21.0711	Local Intelligence	25.0716
两条传输线之间由于互感和互容所产生的交互作用。		The capability of a work station to independently process data without the use of a host or central processing unit.	
Lip Height	51.0712	局部智能	25.0716
The perpendicular distance from one primary cutting edge to another.		工作站在不使用主机或中央处理器的情况下独立处理数据的能力。	
刃缘高度	51.0712	Local Reflow Soldering	75.1908
从主切削刃到另一切削刃之间的垂直距离。		The process of reflow soldering using the heat that is directly supplied to the local area to be reflowed by an energy beam (laser), soldering iron or hot air reflow tool.	
Liquidus, Solder	75.1906	局部再流焊接	75.1908
The temperature at which a solder alloy is completely melted.		采用激光、电烙铁或热风再流焊装置对局部区域直接进行加热的再流焊接工艺。	
焊料液相线	75.1906	Locating Accuracy (Component)	73.1909
焊料合金完全熔化时的温度。		The accuracy in positioning of a component described by the amount of displacement from the desired position.	
Liquefaction (Cured Solder Mask)	47.0927	定位精度（元器件）	73.1909
When cured (solid) solder mask becomes partially to fully liquefied.		通过与理想位置的偏移量描述的元器件定位精度。	
液化（已固化阻焊膜）	47.0927		
已固化的（固态）阻焊膜部分或完全液化。			

Locating Edge	20.0028	逻辑图	21.1440
A tooling feature in the form of the edge of a printed board.		运用逻辑符号和辅助标识描述多种状态器件逻辑功能执行过程的图，可显示详细的信号流程和控制，但不必标出点到点之间的连线。	
定位边	20.0028		
以印制板的边作为定位要素。			
Locating Edge Marker	20.0717	Logic Family	21.1441
A symbol that is used to identify which edge of a printed board is the index edge.		A collection of logic functions using the same form of electronic circuit, e.g., emitter-coupled logic (ECL), transistor-transistor logic (TTL), complementary metal-oxide semiconductor logic (CMOS).	
定位边标识	20.0717		
用来确定印制板的某一边为基准边的符号。			
Locating Hole	20.0718	逻辑系列	21.1441
See “Tooling Hole.”		指使用相同形式电路的逻辑功能的集合，如：发射极耦合逻辑电路（ECL），晶体管-晶体管逻辑电路（TTL）和互补金属氧化半导体逻辑电路（CMOS）。	
定位孔	20.0718		
见“定位孔， Tooling Hole”。			
Locating Notch	20.0719	Long-Term Capability	91.0722
A tooling feature in the form of a notch in a printed board.		The capability of a process that exhibits statistical control over an extended period of time.	
定位切口	20.0719		
以印制板的切口为定要素。			
Locating Slot	20.0720	长期能力	91.0722
A tooling feature in the form of a slot in a printed board.		过程在较长时间期限内的统计控制能力。	
定位槽	20.0720		
以印制板上的槽为定要素。			
Location Hole	20.1726	Loom Beam	44.0723
A hole or notch in the panel or printed board to enable either to be positioned accurately.		A large flanged cylinder onto which all warp yarns are wound and from which the yarns enter the loom.	
定位孔	20.1726		
用于精确定位在制板或印制板的孔或槽口。			
Logic	21.0721	织机经轴	44.0723
The functional digital circuits used to perform computational functions.		大的带凸缘的圆柱体，其上缠绕所有经纱，并由此进入织布机。	
逻辑电路	21.0721		
用以完成计算功能的功能数字电路。			
Logic Diagram	21.1440	Loop Height	76.0725
A drawing that depicts the multistate device implementation of logic functions with logic symbols and supplementary notations that show the details of signal flow and control, but not necessarily the point-to-point wiring.		The magnitude of deviation of a wire from a straight path between its end attachment points.	
		线弧高度	76.0725
		金属线的弯曲顶点距其两端接点连接直线间的距离。	
		Loop, Wire	76.0724
		The curve (arc) in a bonding wire between its end attachment points.	
		线环	76.0724
		在两端连接点之间键合线中的曲线（弧线）。	
		Loss Tangent	21.0726
		See “Dissipation Factor.”	
		损耗正切	21.0726
		见“损耗因子， Dissipation Factor”。	

Lot Size	91.1442	机器语言	11.0732
A collection of units produced in one continuous, uninterrupted fabrication run.			计算机执行操作时采用的实际语言，通常为二进制代码。
批量	91.1442	Machined Contact	37.0731
连续不间断制程中生产的产品的集合。			A type of connector contact that consists of solid spring metal that has been formed by machining. (See also "Sheet-Metal Contact.")
Low Residue Solder Paste	75.1910	机械接触件	37.0731
A solder paste wherein the ionic, nonionic, and carrier residues after soldering are controlled to low level.			由加工成型的硬弹性金属组成的连接器接触件。(又见“金属片接触件，Sheet-Metal Contact”。)
低残留焊膏	75.1910	Magnification Power	92.0733
焊接后其离子、非离子以及载体残留物均控制在很低水平的焊膏。			The ratio of the tangent of one-half of the angle (β) subtended by the image of an object (H), as seen through and centered in the field of view of the magnification device, to the tangent of one-half of the angle (α) subtended by the object (H) as seen at 10 inches by the unaided eye. (See Figure M-1.)
Luminance	24.0727		
A measure of light flux reflected or emitted from a surface.			IPC-50h-m-01
亮度	24.0727	Figure M-1 Magnification Power Parameters	
从一个表面反射或发射出的光通量的度量。			
Luminous Energy	24.0728	放大率	92.0733
A measure of light flux flow rate, usually in units of lumens-seconds.			通过放大设备的中间位置正对物体影像所看上去的半角 (β) 的正切与用肉眼从距离物体10英寸的地方正看上去的半角 (α) 的正切之比值。(见图M-1。)
光能	24.0728	Major Defect	94.0734
光通量流速的度量，通常以流明秒为单位。			A defect that is likely to result in a failure of a unit or product or that materially reduces its usability for its intended purpose.
Luminous Flux	24.0729	主要缺陷	94.0734
A measure of flow of visible light energy past any given point in space.			有可能导致某一装置或产品失效或者其适用性显著降低的缺陷。
光通量	24.0729	Manhattan Distance	25.0735
可见光能通过空间内任一指定点的流通量的度量。			The orthogonal distance between two points.
Lyophilic	76.1225		
A characterization of material that readily goes into colloidal suspension in a liquid.			
亲液性	76.1225		
材料在液体中易转化为胶状悬浮体的特征。			
Lyophobic	76.0730		
A characterization of material that exists in a colloidal state with a tendency to repel liquids.			
疏液性	76.0730		
材料以胶体形式存在且排斥液体的特征。			
M			
Machine Language	11.0732		
The actual language, usually a binary code, that is used by a computer when it performs operations.			



图M-1 放大率参数

曼哈顿距离 **25.0735**

指两点间的垂直距离。

Manual Data Input **25.0736**

Computer data that is manually generated with or without the aid of a data-entry device, such as a keyboard, lightpen, mouse, etc.

人工数据输入 **25.0736**

通过人工生成的计算机数据，无论是否借助数据输入装置，如键盘、光笔以及鼠标等。

Manual Soldering **75.0737**

See "Hand Soldering."

人工焊接 **75.0737**

见“手工焊接， Hand Soldering”。

Manufacturing Drawing **26.1634**

A working document that shows the dimensional limits or grid locations that are applicable to any and all parts of a product to be fabricated, including the arrangement of conductors and nonconductive patterns or elements; the size, type, and location of holes; and all other necessary information.

加工图 **26.1634**

指描述待加工产品任何一个零件或全部零件的尺寸大小或网格位置的生产文件，包括导线、非导电图形或元器件的排列和孔的大小、形状与位置等所有其它必要信息的文件。

Manufacturing Hole **20.0738**

See "Tooling Hole."

加工孔

20.0738

见“定位孔， Tooling Hole”。

Margin (Flat Cable)

37.0739

The distance between the reference edge of a flat cable and the nearest edge of the first conductor. (See also "Edge Spacing.")

边距（扁平电缆）

37.0739

扁平线缆的基准边与其第一个导体最近边之间的距离。(又见“边缘间距， Edge Spacing”。)

Margin Width (Drill)

51.0740

The thickness of the cylindrical portion of a drill land that is perpendicular to the leading edge.

棱边宽度（钻头）

51.0740

指钻头圆柱部分的刀刃口到钻头实体部分的垂直距离。

Mark (Fabric)

44.0741

A heavy or light area in a fabric that is due to excessive or insufficient filling yarns.

织痕（织物）

44.0741

由于引纬过密或过稀而导致织物出现局部过厚或过薄的现象。

Marking

47.2185

Recording of traceability and legend information on hardware.

标记

47.2185

在硬件上记录可追溯信息及符号信息。

Mask

47.0742

A coating material, in a specific pattern, that is used to mask or protect selected areas of conductive circuitry during manufacturing or testing from the action of an etchant, plating, solder, etc.

掩膜

47.0742

用来掩蔽或保护选定导电电路区域的特定图形上的涂覆层材料，以使该区域在制造或测试期间免受蚀刻剂、电镀、焊接等的影响。

Mass Lamination

55.1443

The simultaneous lamination of a number of pre-etched, multiple-image, C-staged resin panels or sheets that are sandwiched between layers of B-staged resin and copper foil. (See also "Cap Lamination" and "Foil Lamination.")

叠合层压	55.1443	Mealing	76.1814
将多张预先蚀刻好的具有线路图形的C阶树脂内层板，夹在B阶树脂半固化片与铜箔之间同时进行层压。（又见“覆盖层压，Cap Lamination”和“覆箔层压，Foil Lamination”。）		A condition in the form of discrete spots or patches that reveals a separation at the interface between a conformal coating and a base material on the surface of a printed board, on the surface of an attached component, or both.	
Mass Soldering	75.1678	起斑	76.1814
Methods of soldering in which many joints are made in the same operation.		显示覆形涂层与印制板表面基材或元器件表面基材间存在分离的离散斑点或斑纹状况。	
群焊	75.1678	Measling	55.0748
在同一作业中同时完成很多焊接点的焊接方法		A condition that occurs in laminated base material in which internal glass fibers are separated from the resin at the weave intersection. (This condition manifests itself in the form of discrete white spots or “crosses” that are below the surface of the base material. It is usually related to thermally-induced stress.) (See also “Crazing, Base Material.”)	
Master Dot Pattern	26.0743	白斑	55.0748
See “Hole Pattern.”		层压基材内玻璃纤维与树脂在织物交叉处发生分离的状况。（通常表现为基材表面下不连续的白色方块或“十字”纹，一般与热应力有关。）（参见“微裂纹，基材，Crazing, Base Material”。）	
点总图	26.0743	Mechanical Stress	95.1755
见“孔图，Hole Pattern”。		To subject a mechanical component to a process of physical stress.	
Master Drawing	26.0744	机械应力	95.1755
A control document that shows the dimensional limits or grid locations that are applicable to any and all parts of a product to be fabricated, including the arrangement of conductors and nonconductive patterns or elements; the size, type, and location of holes; and all other necessary information.		使机械构件承受物理应力的过程。	
设计总图	26.0744	Mechanical Wrap	75.0749
用以描述待制产品所需的部分或全部的尺寸范围或网格位置的控制文件，包括导体和非导电图形或组件的排布，孔的尺寸、类型和位置以及其它必需的信息。		The physical securing of a wire lead or component lead around a solder terminal.	
Master Line	22.0745	机械绕接	75.0749
See “Design Width of Conductor.”		将导线或元器件引线缠绕到焊接端子上的机械固定。	
主传输线	22.0745	Meniscus	92.0750
见“导体设计宽度，Design Width of Conductor”。		The contour of a shape that is the result of the surface-tension forces that take place during wetting. (See Figure M-2.)	
Master Pattern	24.0746	弯液面	92.0750
See “Production Master.”		润湿过程中，由于表面张力的作用而引起的外形轮廓。（见图M-2。）	
底版图形	24.0746	Message (Bar Code)	70.1915
见“生产底片，Production Master”。		A string of characters encoded into a bar code symbol of a specific length.	
Maximum Material Condition (MMC)	22.0747	信息 (条码)	70.1915
The condition in which a feature of size contains the most amount of material within the stated limits of size.		编译成一定长度条码符号的一串字符。	
最大材料条件 (MMC)	22.0747		
尺寸要素在规定的尺寸范围内包含最多材料量的状况。			

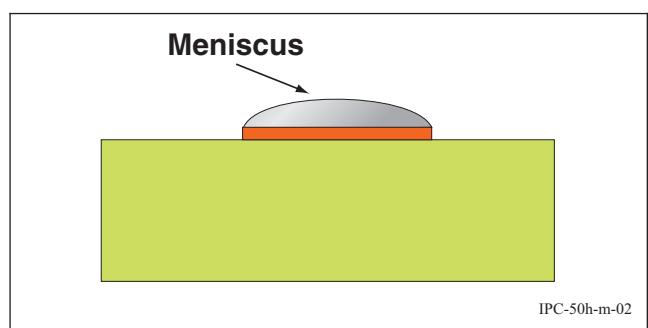
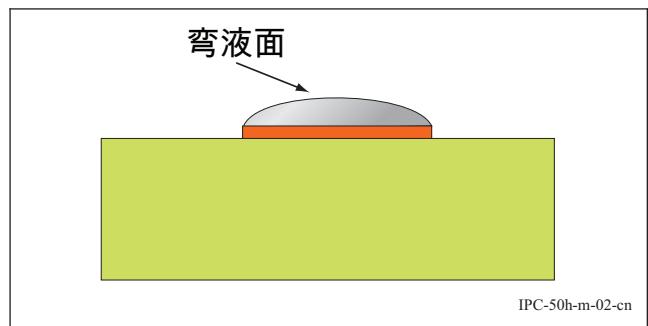


Figure M-2 Meniscus



图M-2 弯液面

Metal-Clad Base Material 41.1609

Base material covered with conductive foil on one or both sides.

覆金属箔基材 41.1609

单面或双面覆有导电箔的基材。

Metal-Clad Laminate 41.0752

See "Metal-Clad Base Material."

覆金属箔层压板 41.0752

见“覆金属箔基材， Metal-Clad Base Material”。

Metal Core Printed Board 61.1587

A printed board having a metal core as the support for the printed board structure, usually used as a heat sink or power supply grounding layer.

金属芯印制板 61.1587

以金属芯为结构支撑的印制电路板，金属芯通常作为散热层或电源接地层。

Metal Migration 96.1445

The electrolytic transfer of metal ions along an electrically conductive path from one metal surface to another when an electrical potential is applied to the two metal surfaces.

金属迁移 96.1445

当电压作用于两个金属表面时，金属离子沿着导电通路从一金属表面到另一金属表面的电解转移。

Metal Migrativity

96.0754

The comparative rate of the velocity of metal migration under the same conditions.

金属迁移率

96.0754

相同条件下金属迁移速度的相对比率。

Metal Surface Migration

96.1226

The migration of metal on the surface of an electrical insulator.

金属表面迁移

96.1226

金属在绝缘体表面上的迁移。

Metal Through Migration

96.0662

The migration of metal through an electrical insulator.

金属贯穿迁移

96.0662

金属贯穿通过绝缘体的迁移。

Metalized Land Areas

22.1756

A pattern of conductive material used on a substrate to interconnect electronic components. Widened conductor areas used as attachment point for wire bonding or other devices.

金属化连接盘区域

22.1756

实现基板上电子元器件互连的导电材料图形，加宽的导体区域用作导线键合或其它器件的连接点。

Metalization (n.)

53.0753

A deposited or plated thin metallic film that is used for its protective and/or electrical properties.

金属化（名词）

53.0753

通过沉积或电镀方法形成的薄金属膜，用于保护和/或提供电气性能。

Microbond

74.0756

A termination made with a small diameter wire, i.e., 0.025 mm [0.001 in] or less.

微键合

74.0756

用直径不大于0.025mm[0.001in]的金属线制成的端接点。

Microcircuit

30.0757

A relatively high density combination of equivalent circuit elements that are interconnected so as to perform as an indivisible electronic circuit component.

微电路

30.0757

作为一个不可分割的电子电路元器件运行而互连在一起的高密度等效电路元器件组合。

Microcircuit Module **86.1446**

A combination of microcircuits and discrete components that are interconnected so as to perform as an indivisible circuit assembly.

微电路模块 **86.1446**

为作为一个不可分割的电路组件运行而互连在一起的微电路和分立元器件组合。

Microelectronics **30.0759**

The area of electronic technology with, or applied to, the realization of electronic systems from extremely-small electronic elements, devices or parts.

微电子学 **30.0759**

应用于由极小的电子元器件、器件或部件构成的电子系统的电子技术领域。

Micron **26.1916**

A linear dimension equal to 1×10^{-6} meters or 39.4×10^{-6} inches

微米 **26.1916**

等于 1×10^{-6} m 或 39.4×10^{-6} in。

Microprobe **92.0760**

A small sharp-pointed object with a positional handle that is used to make temporary electrical contact to a land on a semiconductor for testing purposes.

微探针 **92.0760**

带有定位柄的小尖状物，可用于与半导体上连接盘的短暂电气接触进行测试。

Microsectioning **92.1447**

The preparation of a specimen of a material, or materials, that is to be used in a metallographic examination. (This usually consists of cutting out a cross-section, followed by encapsulation, polishing, etching, staining, etc.)

显微剖切 **92.1447**

用于金相分析的材料样品制备。(通常包括截面切割、灌封、抛光、蚀刻、染色等)

Microstrip **21.0761**

A transmission line (see "Transmission Line") structure that consists of a signal conductor that runs parallel to and is separated from a much wider reference plane. (See Figure M-3.)

微带线 **21.0761**

由与一个很宽的参考面平行且相分离的信号导体组成的一种传输线结构。(参见“传输线，Transmission”。)(见图M-3。)

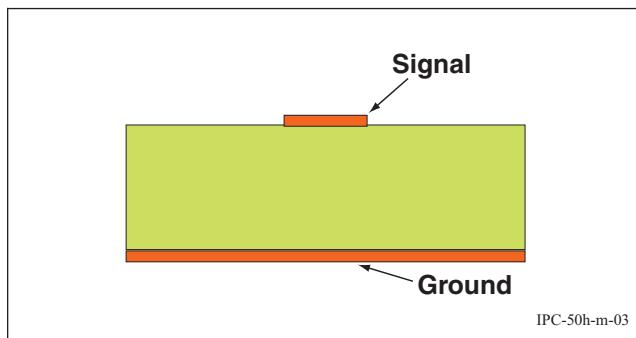
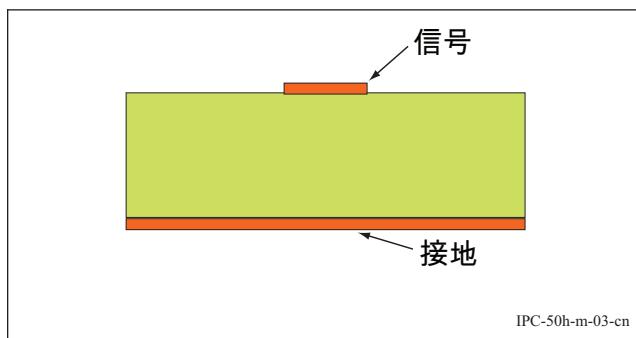


Figure M-3 Microstrip



图M-3 微带线

Microvia (Build-Up Via) **22.1595**

A blind or subsequently buried hole that is ≤ 0.15 mm [≤ 0.006 in] in diameter and formed either through laser or mechanical drilling, wet/dry etching, photo imaging, or conductive ink-formation followed by a plating operation.

微导通孔（积层导通孔） **22.1595**

直径小于0.15mm[0.006in]的盲孔或埋孔，可以通过机械钻孔、激光打孔、曝光成像或干湿膜蚀刻方式形成微孔，也可以用导电油墨形成继之以电镀加工形成。

Microwave Integrated Circuit **21.0762**

An integrated circuit that performs at microwave frequencies.

微波集成电路 **21.0762**

在微波频率下运行的集成电路。

Microwave Laminate **40.1917**

A laminate of metal cladding on dielectric substrate of composition selected to be suitable for circuit boards intended for operation at microwave frequencies.

微波层压板 **40.1917**

为了适用于可在微波频率下运行的电路板而选择的复合电介质基板上的覆金属箔层压板。

Microwaves	21.1918	Minimum Annular Width	22.0765
A term generally applied to radio waves in the frequency range of 1 GHz to 100 GHz. It generally refers to the frequency range where circuits and device interconnects are described as distributed elements instead of lumped elements.		The minimum width of metal(s) at the narrowest point between the edge of a hole and the outer edge of a circumscribing land. (This determination is made to the drilled hole on internal layers of multilayer printed boards and to the edge of the plating on external layers of multilayer and double-sided printed board.)	
微波	21.1918	最小环宽	22.0765
适用于频率范围在1 GHz到100 GHz的无线电波术语。通常指电路和器件互连采用分布元器件而非集成总元器件的频率范围。		孔边缘与外接连接盘外缘之间最窄处的金属宽度。 (多层板内层从钻孔孔壁起，多层板外层和双面板从镀层边沿起度量。)	
Migration (Pressure Sensitive Tape)	75.1919	Minimum Bump Pitch	36.1921
The movement between tape components or between the tape and the surface to which it is applied, over a long period of time.		Minimum pitch between the center of any two perfectly aligned bumps.	
迁移 (压敏胶带)	75.1919	最小凸点间距	36.1921
胶带组分之间或者胶带与其作用的表面之间经过一段长时间后发生的转移。		排列整齐的任何两个完整的金属凸点之间的最小间距。	
Migration Rate	96.0763	Minimum Electrical Spacing	21.1451
The distance over which metal migration proceeds in a given unit of time.		The minimum allowable distance between adjacent conductors, or between conductors and noncommon conductors such as mounting hardware, ground, etc., at a given voltage and altitude, that is sufficient to prevent dielectric breakdown, corona, or both, from occurring between the conductors.	
迁移速率	96.0763	最小电气间隙	21.1451
在给定的单位时间内金属迁移的距离。		在给定的电压和海拔高度下，足以防止导线之间产生介质击穿或电晕放电，或二者同时兼有时，相邻导体、导体与安装硬件、导体与接地线之间所允许的最小距离。	
Migration Resistance	96.1920	Minor Defect	91.0767
That property of a printed board that resists insulation degradation by electromigration of metal atoms of a conductor under the influence of a difference in electrical potential.		A defect that is not likely to result in a failure of a unit or product or that does not materially reduce its usability for its intended purpose.	
耐迁移	96.1920	次要缺陷	91.0767
印制线路板阻挡在电势差的作用下导体的金属原子发生电迁移而引起绝缘性能下降的能力。		不会导致单元或产品失效、或不会对其预期使用性能造成严重影响的缺陷。	
Migration Velocity	96.0764	Mirrored Pattern	24.0768
See "Migration Rate."		A pattern whose orientation denotes a transposition from right reading. (See Figure M-4.)	
迁移速度	96.0764	镜像图形	24.0768
见“迁移速率， Migration Rate”。		表示其方位是从正向图形翻转过来的一种图形。(见图M-4。)	
Minimum Annular Ring	22.0766		
See "Minimum Annular Width."			
最小孔环	22.0766		
见“最小环宽， Minimum Annular Width”。			

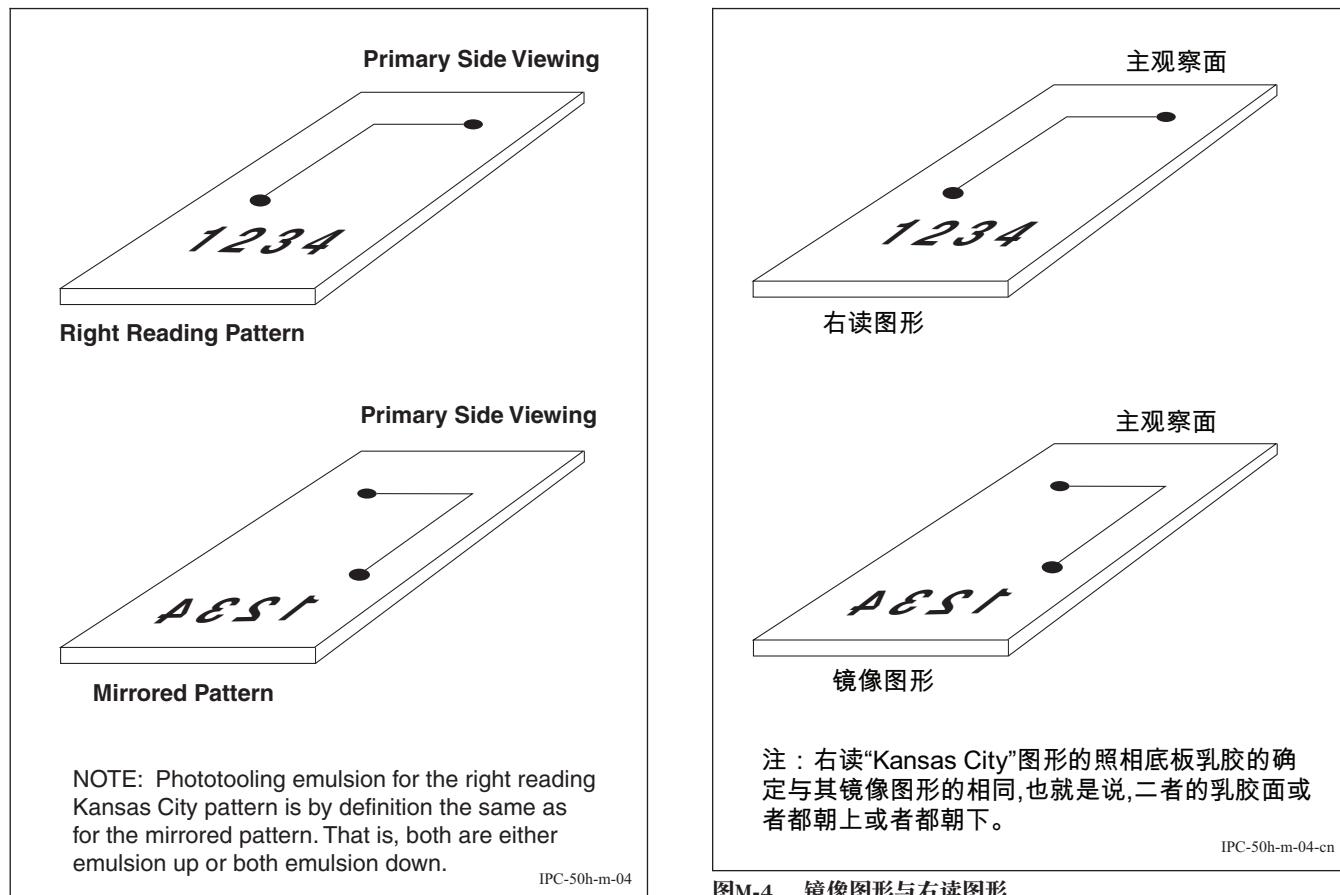


Figure M-4 Mirrored and Right-Reading Patterns

Mis-Pick**44.0769**

A break in the pattern of cloth from selvage to selvage that is caused by a missing filling yarn.

缺纬**44.0769**

由于引纬时缺少纬纱而造成织物的整个幅宽出现纬纱缺损的状况。

Mislocated Bond**74.0770**

See "Off Bond."

错位键合**74.0770**

见“偏离键合，Off Bond”。

Misregistration**50.0771**

Imperfect registration.

重合不良**50.0771**

不良的对位。

Mixed Component-Mounting Technology**70.1452**

A component mounting technology that uses both through-hole and surface-mounting technologies on the same packaging and interconnecting structure.

图M-4 镜像图形与右读图形

元器件混装技术**70.1452**

在同一封装及互连构件上同时使用通孔插装与表面贴装两种工艺的元器件安装技术。

Mixed-Effects Model**91.0772**

An experimental treatment that contains elements of both deterministic effects and random-effects models.

混合效应模式**91.0772**

既包含固定效应模式又包含随机效应模式的试验处理方法。

Mixed Technology**70.1757**

In surface mounting, refers to mixing through hole component and surface mounting components on the same side of a printed board.

混装技术**70.1757**

在印制板的同一面既有通孔插装元器件又有表面贴装元器件的表面贴装技术。

Modal Form**25.0773**

The technique whereby a data description or other pertinent command is given only once at the beginning of a related set of data.

模态格式	25.0773	Molded Interconnection Device	67.1926
仅在相关的数据进行初始设置时提供一次数据描述或其它相关指令的技术。		A combination of molded plastic substrate and conductive patterns that provide both the mechanical and electrical functions of an electronic interconnection package.	
Modification	77.0774	模制互连器件	67.1926
The revision of the functional capability of a product in order to satisfy new acceptance criteria.		由模制塑料基板和导电图形的组合，可为电子互连封装提供机械和电气功能。	
修改	77.0774	Molecular Dye-Imaging Material	24.0776
为了新的验收标准而对产品功能进行的修订。		See “Diazo Material.”	
Module	80.0775	分子染色成像材料	24.0776
A separable unit in a packaging scheme.		见“重氮材料， Diazo Material”。	
模块	80.0775	Monolithic Integrated Circuit	30.0777
封装体系中的可分离单元。		An integrated circuit in the form of a monolithic structure.	
Module Board	67.1922	单片集成电路	30.0777
A substrate on which bare die and surface-mount components are attached and interconnected and intended to be further assembled to a product planar board.		单片结构的集成电路。	
模块板	67.1922	Montreal Protocol	76.1758
安装互连有裸芯片和表面贴装元器件的基板，以便可以进一步组装到成品面板上。		An agreement by industrialized nations, at a meeting held in Montreal, Canada, to eliminate chlorofluorocarbons from all processes by 1995.	
Moisture Absorption	40.1923	蒙特利尔公约	76.1758
Under specified test conditions, the weight percentage of moisture absorbed by a material.		工业化国家在加拿大蒙特利尔召开的会议上签订的一项协议，该协议规定自1995年起从所有的生产中取消含氟氯烃化合物。	
吸湿性	40.1923	Mother Board	85.0778
在特定测试条件下，材料所吸收湿气的重量百分比。		A printed board assembly that is used for interconnecting arrays of plug-in electronic modules. (See also “Backplane.”)	
Moisture Barrier Bag (MBB)	30.1924	母板	85.0778
A bag that is electrostatic discharge (ESD) safe and is designed to restrict the ingress of water vapor used to package moisture-sensitive devices.		用以互连一组插入式电子模块的印制板组件。(又见“底板， Backplane”。)	
隔潮袋（MBB）	30.1924	Mounting Hole	20.0779
用于包装湿敏元器件的防静电且防水汽侵入的袋子。		A hole that is used for the mechanical support of a printed board or for the mechanical attachment of components to a printed board.	
Moisture Resistance	40.1925	安装孔	20.0779
The measure of how well the insulation characteristics of a material are maintained when exposed to temperature and humidity.		用于印制板的机械支撑或将元器件机械固定到印制板上的孔。	
防潮性	40.1925	Mounting Tack Time	73.1927
材料暴露在高温、高湿环境下时，其保持绝缘特性的量度。		The interval of time required for mounting one component or all components on one printed board.	

安装时间	73.1927	Multichip Module Deposited (MCM-D)	86.1929
在一块印制板上安装一个元器件或全部元器件所需要的时间。			Multichip module where unreinforced dielectric and conductive materials are added sequentially to form an interconnecting structure on a substrate.
Muffle	75.0780	沉积多芯片模块 (MCM-D)	86.1929
An enclosure with a rectangular or oval cross-section that is located between the heating elements and the parts being processed that contains the atmosphere required for the reflow soldering process.			通过在基材上顺序增加非增强电介质和导电材料而形成互连结构的多芯片模块。
隔离罩	75.0780	Multichip Module Laminate (MCM-L)	86.1930
位于加热元器件与被加热物体之间的截面为矩形或椭圆形的封闭空间, 其中包含有再流焊工艺所需要的热氛围。			Multichip modules built primarily using printed board manufacturing processes and materials.
Multi-Vari	91.0781	层压多芯片模块 (MCM-L)	86.1930
A nonmathematical method for determining the sources of variation.			主要采用印制板制作工艺和材料制成的多芯片模块。
多变元	91.0781	Multilayer Carrier Tape	36.0785
确定变异源的非数学方法。			Carrier tape with two or more conductor layers.
Multichip Integrated Circuit	86.0782	多层载带	36.0785
See "Multichip Module."			有两层或二层以上导体层的载带。
多芯片集成电路	86.0782	Multilayer Printed Board	60.1227
见“多芯片模块, Multichip Module”。			The general term for a printed board that consists of rigid or flexible insulation materials and three or more alternate printed wiring and/or printed circuit layers that have been bonded together and electrically interconnected.
Multichip Microcircuit	86.0783	多层印制板	60.1227
See "Multichip Module."			采用刚性或柔性绝缘材料与三层以上已粘接在一起且已实现电气互连的印制线路或印制电路层交替组成的印制板。
多芯片微电路	86.0783	Multilayer Printed Circuit Board	60.0786
见“多芯片模块, Multichip Module”。			A multilayer printed board with three or more printed circuit layers.
Multichip Module (MCM)	86.0784	多层印制电路板	60.0786
A microchip module consisting primarily of closely-spaced integrated circuit dice that have a silicon area density of 30% or more.			有三层以上印制电路层的多层印制板。
多芯片模块 (MCM)	86.0784	Multilayer Printed Circuit Board Assembly	80.0787
由硅片密度不少于30%的密集集成电路芯片组成的微芯片模块。			An assembly that uses a multilayer printed circuit board for component mounting and interconnecting purposes.
Multichip Module-Ceramic (MCM-C)	86.1928	多层印制电路板组件	80.0787
Multichip module primarily using hybrid processing technology where materials of the mounting structure are ceramic or glass-ceramic alternatives.			采用多层印制电路板实现元器件安装和互连的组件。
陶瓷多芯片模块 (MCM-C)	86.1928	Multilayer Printed Wiring Board	60.0788
采用陶瓷或玻璃陶瓷材料, 通过混合加工技术产生的多芯片模块。			A multilayer printed board with only printed wiring for its conductive layers.

多层印制线路板 **60.0788**

仅用印制线路作为导电层的多层印制板。

Multilayer Printed Wiring Board Assembly **80.0789**

An assembly that uses a multilayer printed wiring board for component mounting and interconnecting purposes.

多层印制线路板组件 **80.0789**

采用多层印制线路板实现元器件安装和互连的组件。

Multilevel Experiment **91.0790**

The evaluation of a small number of factors at a large number of levels.

多重实验 **91.0790**

在多个级别下对少量因子的评估。

Multiple Image Production Master **24.1643**

A production master having at least two 1:1 scale patterns.

多重图像生产底版 **24.1643**

至少含有两个比例为1:1图形的生产底版。

Multiple Indications **91.0791**

An anomaly that is detected and reported more than once.

多重迹象 **91.0791**

任何多于一次被检到或报告的异常情况。

Multiple Pattern **24.1645**

The arrangement of two or more 1:1 scale patterns contained within the size of one panel.

拼图 **24.1645**

一块在制板内排列有二个或更多比例为1:1的图形。

Multiple Printed Board **50.1646**

A printed panel in which one or more patterns occur two or more times, processed as a single unit and subsequently divided.

多印制板 **50.1646**

一种或多种图形出现两次或多次的印制在制板。加工时可将其作为独立件进行处理，完工后再将其分开（裁板）。

N

Nail Heading **51.0794**

The flared condition of copper on an inner conductive layer of a multilayer printed board that is caused by hole-drilling. (See Figure N-1.)

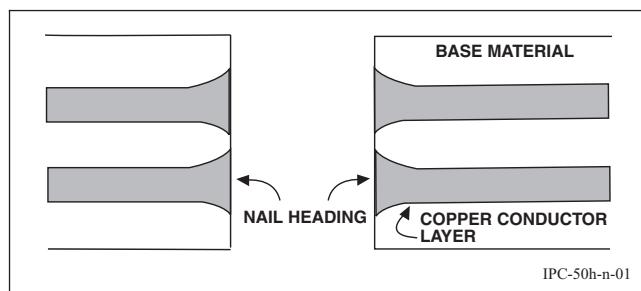
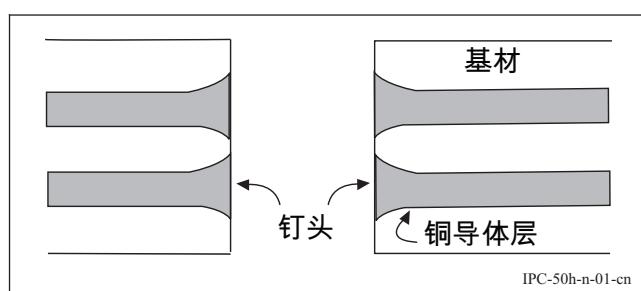


Figure N-1 Nail Heading

钉头

51.0794

多层印制板中由于钻孔造成内层导电层铜箔端部向外张开的状况。(见图N-1。)



图N-1 钉头

Nail

92.0792

See "Probe, Test."

钉

92.0792

见“测试探针， Probe, Test”。

Nailhead Bond

74.0793

See "Ball Bond."

钉头式键合

74.0793

见“球形键合， Ball Bond”。

Near-End Crosstalk

21.0795

See "Backward Crosstalk."

近端串扰

21.0795

见“反向串扰， Backward Crosstalk”。

Neckbreak

74.0796

A break in a bond immediately above a ball bond.

断颈

74.0796

位于球形键合点正上方的键合断裂。

Negative

24.0797

An artwork, artwork master, or production master in which the pattern being fabricated is transparent to light and the other areas are opaque.

负片	24.0797
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所制作的图形为透明、其它区域为不透明的照相底图、照相原版或生产底板。

Negative Etchback	54.0798
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Etchback in which the inner conductor layer material is recessed relative to the surrounding base material. (See Figure N-2.)

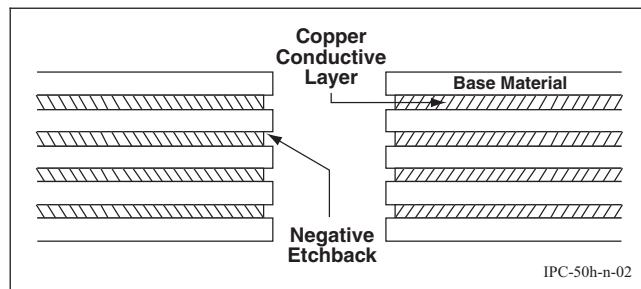
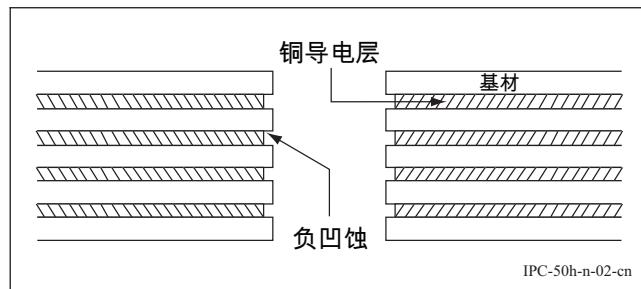


Figure N-2 Negative Etchback

负凹蚀	54.0798
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内层的导电层材料相对于周围基材呈凹缩状的凹蚀。(见图N-2。)



图N-2 负凹蚀

Negative Pattern	24.1639
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See "Negative."

负像图形	24.1639
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见“负片， Negative”。

Negative-Acting Resist	52.1448
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A resist that is polymerized by light and which, after exposure and development, remains on a surface in those areas that were under the transparent areas of a production master.

负性抗蚀剂	52.1448
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受光照而聚合的抗蚀剂，曝光、显影后会留在生产底版透明区域下的表面上。

Neighborhood Processing	92.0799
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The determination of information about a location or pixel by the use of information obtained about its neighbors.

相邻处理	92.0799
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通过利用其邻域的信息来确定位置或像素的信息。

Nesting	25.1176
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Embedding data in levels of other data so that certain routines may be executed or accessed continuously in loops.

嵌套	25.1176
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在其它数据等级中嵌入数据，以便在循环中连续执行或访问一些子程序。

Net	21.1177
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An entire string of electrical connections from the first source point to the last target point, including lands and vias.

网络	21.1177
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从第一个源点到最后一个目标点的完整电气连接线，包括连接盘和导通孔在内。

Net List	21.1178
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A list of alphanumeric representations, each of which is used to describe a group of two or more points that are electrically common.

网表	21.1178
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用字母数字表示的表，其中每个字符用来描述一组两个和两个以上电位相同的点。

Neutral Point	35.1931
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The neutral point is usually the geometric center which defines the point at which there is no relative motion of the chip during thermal cycling.

中点	35.1931
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几何图形的中心，可以确定热循环周期中芯片在该点上没有相对的运动。

Nick	60.1179
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A cut or notch in a wire on the surface or in the edge of a conductor.

缺口	60.1179
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表面导线内或导体边缘的切口或凹口。

Node	21.1180
-------------	----------------

The endpoint of an electrical network branch or the junction of two or more branches.

节点	21.1180
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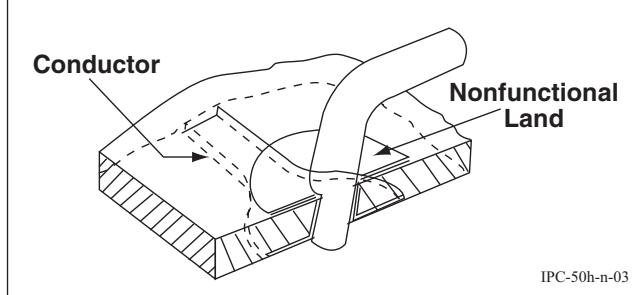
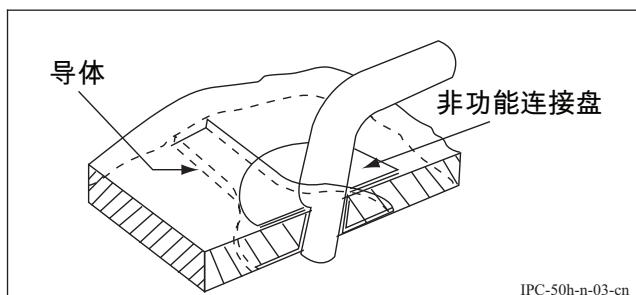
电气网络分支的端点或两个或多个分支的交叉点。

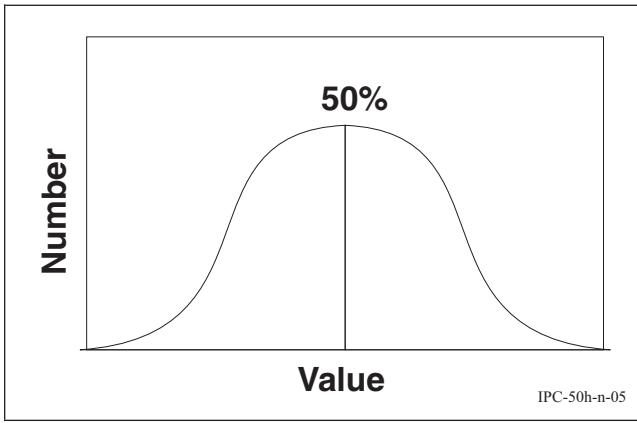
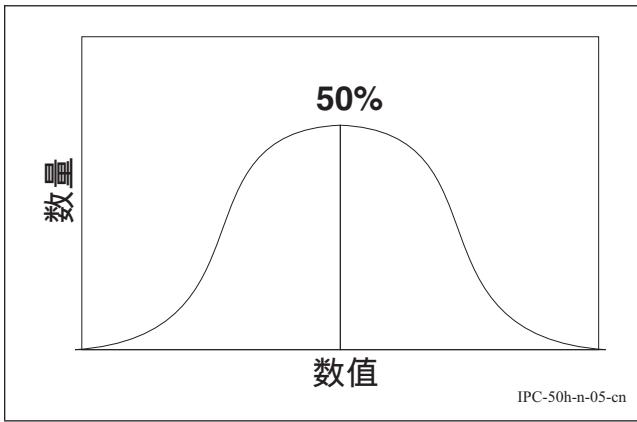
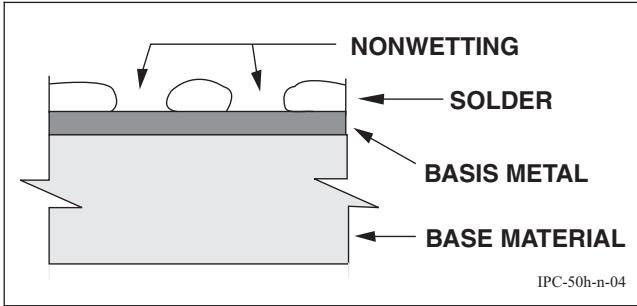
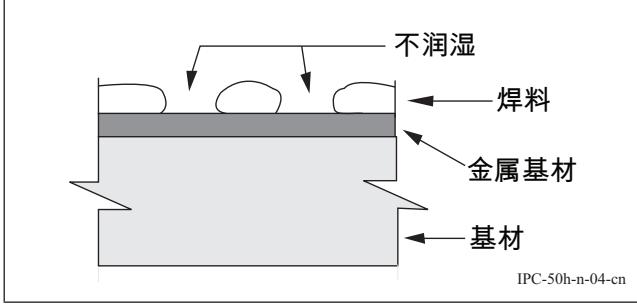
Nodule	60.1181
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A mass or small lump with an irregular shape that is convex to a surface.

结瘤	60.1181
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凸出于表面的不规则形状块状物或瘤状物。

Noise (Process Control)	91.1182	Nonconductive Pattern	22.1184
Factors in a manufacturing process that are uncontrollable or too costly to control.		A configuration that is formed by the functional nonconductive material of a printed circuit, e.g., dielectric, resist, etc.	
干扰 (过程控制)	91.1182	非导电图形	22.1184
制造过程中产生的不可控制或控制成本过高的因素。		由印制电路功能性非导电材料，如绝缘体、阻焊剂等形成的结构。	
Nominal	26.1935	Nonfunctional Interfacial Connection	22.1453
The design target dimension for a physical characteristic of a product or a feature to which a tolerance may be applied that establishes the limits of variation from the target that are acceptable.		A plated-through hole in a double-sided printed board that electrically connects a printed conductor on one side of the board to a nonfunctional land on the other side of the board. (See Figure N-3.)	
标称	26.1935		
产品或要素物理设计目标尺寸，该值允许有可接受的公差，以建立与目标值的差异范围。		IPC-50h-n-03	
Nominal Cured Thickness	55.1449	Figure N-3 Nonfunctional Interfacial Connection	
The thickness of a multilayer printed board, or the distance between two adjacent layers of a multilayer printed board, after the prepreg has been cured at the temperature and pressure specified for that particular class of resin flow.		非功能面间连接	22.1453
标称固化厚度	55.1449	双面印制板中的镀覆孔，它可实现板一面的印制导体和板另一面的非功能连接盘的电气连接。(见图N-3。)	
在特定树脂流动级别规定的温度和压力下，半固化片固化后的多层印制板的厚度、或多层印制板相邻层间的距离。			
Nominal Value	26.1936	IPC-50h-n-03-cn	
The center value between a minimum and maximum allowance.		图N-3 非功能界面连接	
标称值	26.1936	Nonfunctional Land	22.1185
最小允许值与最大允许值之间的中间值		A land that is not connected electrically to the conductive pattern on its layer.	
Nominal-Is-Best Characteristic	91.1450	非功能连接盘	22.1185
A parameter of quality that optimizes performance at its nominal value. (See also "Larger-the-Better Characteristic" and "Smaller-the-Better Characteristic.")		未与同层导电图形实现电气连接的连接盘。	
标称最佳特性	91.1450	Nonfunctional Terminal Area	22.1186
达到标称值时可使性能最佳化的质量参数(又见“越大越好特性，Larger-the-Better Characteristic”和“越小越好特性，Smaller-the-Better Characteristic”。)		See “Nonfunctional Land.”	
Nonactivated Flux	75.1183	非功能端子区	22.1186
A natural or synthetic-resin flux without activators.		见“非功能连接盘，Nonfunctional Land”。	
非活性助焊剂	75.1183		
不含活性剂的天然或合成树脂助焊剂。			

Nonionic Contaminant	76.1187	Nonwoven Glass Mat	44.1937
A residue that does not readily ionize in water.		Glass fibers chopped into defined lengths (typically less than 50 mm) and uniformly distributed in random orientation into a horizontal plane and bound together with suitable chemical means.	
非离子污染物	76.1187	无纺玻璃毡	44.1937
在水中不易电离的残留物。		将玻璃纤维切成规定长度（一般小于50mm），在同一平面上均匀地任意散开，并通过适当的化学方法粘合在一起。	
Nonpolar Matter	76.1188	Normal Distribution	94.1191
A substance that cannot be dissolved in water that is soluble in hydrophobic solvents.		A mathematically-defined continuous distribution of values that has a bell shape that is perfectly symmetrical about a mean value. (See Figure N-5.)	
非极性物质	76.1188		
不溶于水但能溶解于憎水性溶剂的物质。		Number	Value
Nonpolar Solvent	76.1454	50%	IPC-50h-n-05
A liquid that is not ionized to the extent that it is electrically conductive, that can dissolve nonpolar compounds (such as hydrocarbons and resins), and cannot dissolve polar compounds (such as inorganic salts.)			
非极性溶剂	76.1454	正态分布	94.1191
不能电离至可导电程度的液体，能够溶解非极性化合物（如烃和树脂），但不能溶解极性化合物（如无机盐）。		由数学定义的数值的连续分布，它呈完全对称于平均值的钟形。（见图N-5。）	
Nonwetting (Solder)	75.1189		
The inability of molten solder to form a metallic bond with the basis metal. (See Figure N-4.)		量数	数值
	IPC-50h-n-04	50%	IPC-50h-n-05-cn
Figure N-4 Nonwetting (Solder)			
不润湿（焊料）	75.1189	图N-5 正态分布	
熔融的焊料未能与金属基材形成金属键。（见图N-4。）			
	IPC-50h-n-04-cn		
图N-4 不润湿（焊料）		Normal-Mode Rejection (NMR)	21.1190
		The amount of noise superimposed on the input signal of a direct-current (DC) digital voltmeter that the instrument is capable of rejecting.	

串模干扰抑制 (NMR)	21.1190	Occluded Contaminant	76.0802
仪器能够抑制的叠加在直流数字电压计输入信号上的噪音量。		A contaminant that is totally contained in an insulating material.	
Null Hypothesis	91.1455	夹留污染物	76.0802
The supposition that no significant difference exists between the desired results of two comparable populations. (See also "Alternative Hypothesis" and "Statistical Hypothesis.")		完全包含在绝缘材料内的污染物。	
原假设	91.1455	Occlusion	76.0803
二个可比总体的预期结果之间不存在显著差异的假定。(又见“备选假设， Alternative Hypothesis”和“统计假设， Statistic Hypothesis”。)		Uniform molecular adhesion between a precipitate and a soluble substance, or between a gas and a metal.	
Numerical Control (NC) (Machining)	25.1193	吸留	76.0803
The automatic control of electromechanical devices by means of a digital input to an electronic controller.		在沉淀物与可熔物之间、或气体与金属之间的均匀分子粘附。	
数控 (NC) (加工)	25.1193	Odd-Shape Chip Type Component	30.1704
通过向电子控制器输入数字来实现对机电设备的自动控制。		Parts with rectangular or cylindrical shapes, i.e., semi-fixed resistor or trimmer.	
Numerical Control (NC) (Computer Aided Design)	20.1192	异形片式元器件	30.1704
The use of mathematics to define, design or test geometric quantities that are used in a computer-aided technology.		长方形或圆柱形零件，如半固定电阻或微调电容器。	
数控 (NC) (计算机辅助设计)	20.1192	Off Bond	74.0804
使用数学方法定义、设计或测试计算机辅助技术中所使用的几何量。		A termination that has some portion of the bonding area extending off the bonding land.	
O			
Object Code	25.0801	偏离键合	74.0804
The output from a computer compiler or assembler that is, or is suitable for, processing into executable machine codes.		部分键合区域延伸离开连接盘的端接点。	
目标代码	25.0801	Off-Contact Printing	52.1789
计算机编译程序或汇编程序的输出，可或适于处理为可执行的机器代码。		A printing method wherein the image or mask is not in continuous contact with the material to be printed.	
Objective Evidence	91.1939	非接触印刷	52.1789
Documentation in the form of hard copy, computer data, video, or other media.		图像或掩膜不连续接触待印刷材料的印刷方法。	
客观证据	91.1939	Offset Land	22.0805
硬拷贝、计算机数据、视频或其他媒介形式的文档。		A land that is intentionally not in physical contact with its associated component hole.	
Object-Oriented Database	11.0800	偏置连接盘	22.0805
A database that combines graphics and text to describe objects.		特意不与其有关的元器件孔进行物理接触的连接盘。	
面向对象数据库	11.0800	Offset Terminal Area	22.0806
结合图形及文本来描述对象的数据库。		See "Offset Land."	
		偏置终端区	22.0806
		见“偏置连接盘， Offset Land”。	
		Omnibus Ring	36.0807
		See "Support Ring."	
		公共环	36.0807
		见“支撑环， Support Ring”。	

On-Contact Printing	52.1940	Open, Electrical	92.0812
A printing method wherein the imaged mask is in continuous contact with the material to be printed.		A fault that causes two electrically-connected points to become separated.	
接触印刷	52.1940	电气开路	92.0812
图像或掩膜连续接触待印刷材料的印刷方法。		造成两个电气连通点断开的故障。	
One-Piece Connector	37.0809	Open-Entry Contact	37.0813
See "Edge-Board Connector."		A type of female connector contact that does not prevent the entry of an oversized mating part. (See also "Closed-Entry Contact.")	
单件连接器	37.0809	开口接触件	37.0813
见“板边连接器， Edge-Board Connector”。		一种不能阻止过大尺寸配接部件插入的内孔连接器接触件。(又见“闭口接触件， Closed-Entry Contact”。)	
One-Sided Board	60.0810	Open Point	51.1457
See "Single-Sided Printed Board."		The amount of misalignment between the trailing edge of the junction line between the primary and secondary drill-point clearance angles when they are ahead of the drill centerline. (See Figure O-1.)	
一面板	60.0810		
见“单面印制板， Single-Sided Printed Board”。			
Oozing (Pressure Sensitive Tape)	75.1941		
In pressure sensitive tape technology, a squeezing out of the adhesive from under the backing.			
渗出物 (压敏胶带)	75.1941		
压力敏感胶带工艺中，从衬板下面的粘结层被挤压出来的粘合剂。			
Opacity (Photographic)	24.0811		
The reciprocal of the transmittance ratio for a photographic image.			
不透明度 (照相)	24.0811		
照相图像透光度的倒数。			
Opaquer	24.1456		
A material that, when added to a resin system, renders laminate sufficiently opaque, so that the yarn or weave of the reinforcing material cannot be seen with the unaided eye using either reflected or transmitting light.			
遮光剂	24.1456		
加入树脂体系中使被层压板不透明的材料，无论是在反射光还是透射光下用肉眼都看不到增强材料中的纱线或织物。			
Open Circuit Potential	21.0814		
The potential of a cell from which no current flows in the external circuit.			
开路电势	21.0814	Open Time	75.1194
外部电路无电流通过时原电池的电势。		The maximum duration of the interval from the application of an adhesive to the formation of a satisfactory bond. (See also "Working Time.")	

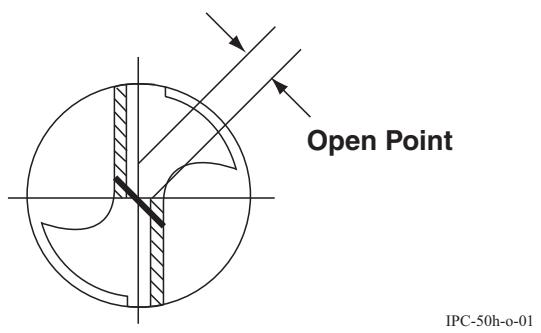
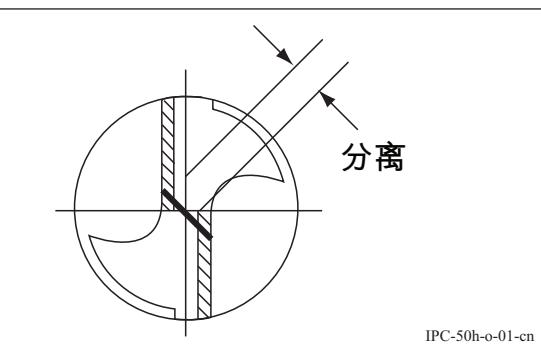
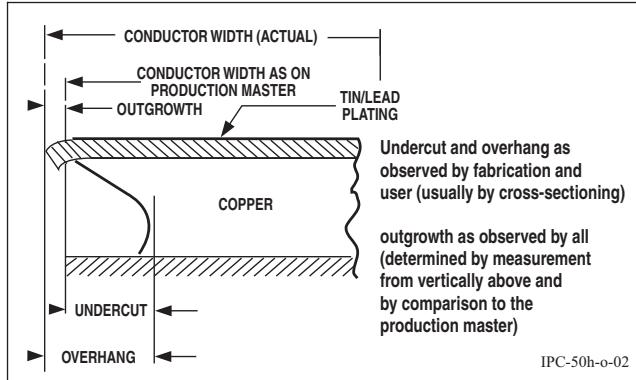
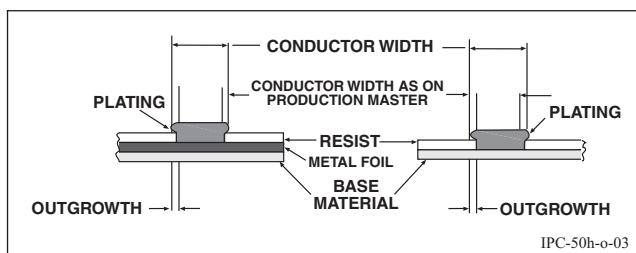


Figure O-1 Open Point

分离 **51.1457**
当钻头的第一、第二余隙角之间的交线位于其中心线前面时，其后缘的不重合程度。(见图O-1。)

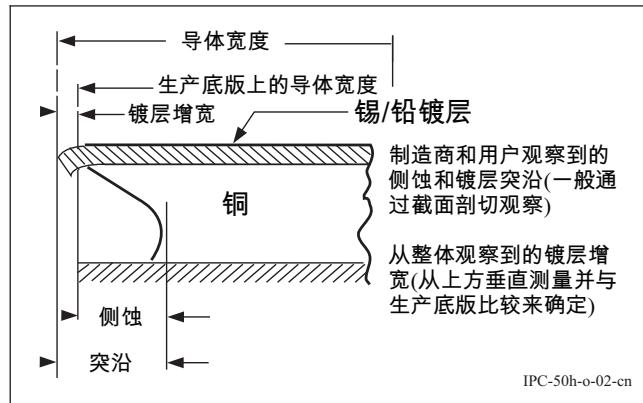


图O-1 分离

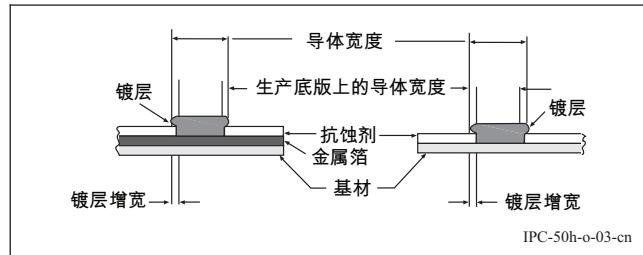
间隔时间	75.1194	Orthogonal-Array Experiment	91.1458
从施加粘合剂到形成满意的粘接所需要的最长时间间隔。(又见“作业时间, Working Time”。)		A balanced evaluation whereby the average effect of a factor is determined while the levels of all other factors in the design are systematically changed.	
Optical Image	24.1195	正交实验	91.1458
An image that is projected onto a viewing screen.		一种平衡评定, 其中确定一个因素的平均影响后, 设计中的所有其它因素水平都将系统地改变。	
光学影像	24.1195	Outer-Lead Bond (OLB)	74.1198
被投影到显示屏上的图像。		键合载带上导体与基材之间的连接。(又见“内引线键合, Inner-Lead Bond”。)	
Organic Contamination	76.1196	外引线键合 (OLB)	74.1198
A type of contamination derived from an organic substance.		键合载带上导体与基材之间的连接。(又见“内引线键合, Inner-Lead Bond”。)	
有机污染物	76.1196	Outgassing	53.1199
由有机物产生的污染物。		The gaseous emission from a material exposed to heat or reduced air pressure, or both.	
Organic Flux	75.1942	排气	53.1199
Flux primarily composed of organic materials other than rosin or resin.		暴露于热或低气压, 或两者兼有环境下的材料内的气体排出。	
有机助焊剂	75.1942	Outgrowth	45.1459
主要由有机材料而不是松香或树脂组成的助焊剂。		The increase in size of one side of a conductor that is caused by plating that is in excess of that delineated on the production master. (See Figure O-2 and Figure O-3.)	
Organic Solderability Preservative (OSP)	47.2086		
An organic compound that reacts selectively with copper surfaces forming a thin, uniform film that prevents copper oxidation and helps maintain solderability after extended printed board storage.		IPC-50h-o-02	
有机可焊性保护剂 (OSP)	47.2086	Figure O-2 Outgrowth, Overhang, and Undercut	
能与铜表面起选择性反应形成均匀薄膜的有机化合物, 形成的薄膜可防止印制板长期贮存后铜的氧化并保持其可焊性。			
Original Production Master	24.1943	IPC-50h-o-03	
The original artwork or computer data file used to produce the production master that serves as the phototool in the manufacturing image transfer process.		Figure O-3 Outgrowth, Overhang, and Undercut	
原始生产底版	24.1943		
用于生成生产底版的原始照相底图或计算数据文件, 可作为制造图像转移工艺的照相底版。			
Orthochromatic Emulsion	24.1197		
A photographic emulsion that is spectrally sensitive to the violet, blue, and green portions of the visible light spectrum.			
正色乳剂	24.1197		
对可见光谱中的紫色、蓝色及绿色部分光谱敏感的感光乳剂。			

镀层增宽**45.1459**

由于镀层引起的导体一侧宽度的增加，其超过了生产底版上标示的宽度。(见图O-2、图O-3。)



图O-2 镀层增宽、镀层突沿和侧蚀



图O-3 镀层增宽、镀层突沿和侧蚀

Output Vector**91.1228**

The set of logic values, either expected or measured, for all output points at a particular test step of a unit under test.

输出矢量**91.1228**

测试单元在特定的测试步骤中，所有输出点的一组逻辑值，既可以是期望值也可以是测量值。

Overall Length**51.1200**

The distance from the end of a drill shank to the cutting end of the tool, including the point.

钻刀总长度**51.1200**

从钻柄的端部到工具切削端端之间包括钻尖的距离。

Overcoat**76.0815**

A thin film of insulating material that is applied over a semiconductor die for the purposes of mechanical and contamination protection.

覆盖层**76.0815**

为了对半导体芯片进行机械保护并防止污染而在其表面涂覆的绝缘材料薄膜。

Overhang**60.0816**

The sum of outgrowth and undercut. (See Figure O-3.) (If undercut does not occur, the overhang is the same as the outgrowth.)

镀层突沿**60.0816**

镀层增宽与侧蚀的总和。(见图O-3。) (如果没有侧蚀，镀层突沿就等于镀层增宽。)

Overheated Solder Connection**75.0817**

A solder connection that is characterized by solder surfaces that are dull, chalky, grainy, and porous or pitted.

过热焊接连接**75.0817**

焊料表面为暗淡、灰化、颗粒状、多孔或有麻点特征的焊接连接。

Overlap (Film)**67.0818**

The contact area between a film component and a film conductor.

重叠（膜）**67.0818**

膜元器件与膜导体之间的接触区域。

Overlap (Drill)**51.1229**

The amount of misalignment between the trailing edge of the junction line between the primary and secondary drill-point clearance angles when they are behind the drill centerline. (See Figure B-4 and Figure O-4.) (See also "Layback.")

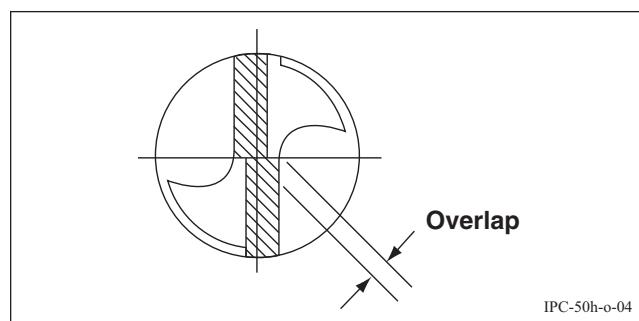


Figure O-4 Overlap

重叠（钻头）**51.1229**

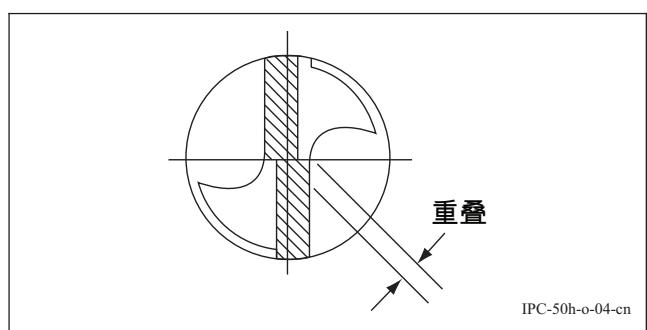
钻头的第一、第二余隙角连接线位于其中心线后面时，其后缘的不重合度。(见图D-2和O-4。) (参见“刃背， Layback”。)

Overplate**53.1673**

Conformal metallic deposition on a previously formed conductive pattern or part thereof.

外镀层**53.1673**

在已形成的全部或部分导电图形上，再镀上一层与其形状一致的金属沉积层。



图O-4 重叠

Overprinting **75.1944**

The use of stencils with apertures larger than the pads or annular rings on the board.

套印 **75.1944**

用开孔大于板上焊盘或孔环直径的模板进行印刷。

Oxide Transfer **41.0819**

See "Treatment Transfer."

氧化物转移 **41.0819**

见“处理物转移， Treatment Transfer”。

Oxygen Concentration Cell **76.0820**

A galvanic cell resulting primarily from differences in oxygen concentration.

氧浓差电池 **76.0820**

主要由于氧气浓度差而形成的原电池。

P

Package **30.1460**

The container for a circuit component, or components, that is used to protect its contents and to provide terminals for making connections to the rest of the circuit.

封装 **30.1460**

电路元器件的外壳，用以保护其内部元器并为实现与其他电路的连接提供端子。

Package Cap **30.0821**

A cuplike package cover.

封装罩 **30.0821**

杯状封装外壳。

Package Cover **30.0053**

The cover that encloses the contents in the cavity of a package in the final sealing operation.

封装外壳

30.0053

在最后的封装操作中将元器件密封在封装腔内的外壳。

Package Lid

30.0822

A flat package cover.

封装盖

30.0822

扁平的封装外壳。

Packaging and Interconnecting Assembly

60.0823

The general term for an assembly that has components mounted on either or both sides of a packaging and interconnecting structure.

封装及互连组件

60.0823

封装和互连结构的任一面或两面装有电子元器件的组件的统称。

Packaging and Interconnection Structure

60.1461

The general term for a completely processed combination of base materials, supporting planes or constraining cores, and interconnection wiring that are used for the purpose of mounting and interconnecting components.

封装及互连结构

60.1461

用于安装和互连元器件的已完成加工的基材、支撑板或抑制芯以及互连线组合的通称。

Package Cracking

95.1945

Cracks in a plastic integrated circuit package caused by stress that results from exposure to reflow solder temperature. These cracks may propagate from the die or die pad to the surface of the package, or only extend part way to the surface or lead fingers.

封装裂纹

95.1945

由于暴露在再流焊接温度下产生的应力所导致的塑料集成电路封装内裂缝，这些裂缝可以从芯片或芯片焊盘扩散到封装表面，或者只扩散到封装表面的部分线路或引线手指上。

Packaging Density

20.1462

The relative quantity of functions (components, interconnection devices, mechanical devices, etc.) per unit volume. (This is usually expressed by qualitative terms such as high, medium, and low.)

封装密度

20.1462

单位体积内功能元器件（元器件、互连器件、机械零件等）的相对数量。（通常用定性术语如高、中、低来表示。）

Pad	20.0824	制板文件	26.0826
See “Land.”		显示含有与制作印制板有关的生产图形及制品的生产底版的文件。	
焊盘	20.0824	Panel Plating	53.0827
见“连接盘， Land”。		The plating of an entire surface of a panel including holes.	
Pad Cratering	96.2176	全板电镀	53.0827
A separation of the pad from the printed board resin/weave composite or within the composite immediately adjacent to the pad as a result of mechanical and/or thermal stress.		对在制板整个表面包括所有通孔进行的电镀。	
盘坑裂	96.2176	Para-aramid	44.1464
由于机械和/或热应力的作用，盘与印制板树脂/织物复合物分离、或盘下复合物内部分离。		The generic term that describes fibers that are made from wholly aromatic polyamide, amide polymers in which at least 85% of the amide linkages are directly attached to two benzene rings at the para position in the polymer chain.	
Paddle	35.1946	对芳酰胺	44.1464
See “Die Pad.”		在聚合链上至少有85%的酰胺直接交连在两个苯环的对位上的全芳酰胺、酰胺聚合物制成的纤维通称。	
焊盘垫	35.1946	Parallel Pair	22.0828
见“芯片焊盘， Die Pad”。		Two conductors that are side-by-side at a controlled spacing.	
Pallet (Printed Board)	40.2002	平行线对	22.0828
The printed board image or patterns plus the additional contiguous deliverable material from the panel. This may include tabs, fiducials, tooling holes, etc.		在受控间距内并排的二个导体。	
拼托板（印制板）	40.2002	Parallel-Gap Soldering	75.1465
一块或多块线路板和其它与拼板相连的可交付材料。这可能包括工艺边、基准点、定位孔等。		The passing of an electrical current through a high-resistance space between two parallel electrodes in order to provide the energy required to make a soldered termination.	
Panchromatic Emulsion	24.0825	双极焊接	75.1465
A photographic emulsion that is spectrally sensitive to all portions of the visible light spectrum.		为了提供制作焊接端接所需的能量，在两个平行电极之间的高阻抗间隔中通过电流。	
全色乳剂	24.0825	Parallel-Gap Welding	75.1466
对可见光谱中所有部分都敏感的感光乳剂。		The passing of an electrical current through a high-resistance space between two parallel electrodes in order to provide the energy required to make a welded termination.	
Panel	41.1463	双极熔接	75.1466
A rectangular sheet of base material or metal-clad material of predetermined size that is used for the processing of one or more printed boards and, when required, one or more test coupons. (See also “Blank.”)		为了提供制作熔接端接所需的能量，在两个平行电极之间的高阻抗间隔中通过电流。	
在制板	41.1463	Parameter Record	25.0829
一种预定尺寸的矩形基材或覆金属箔基材，可用于加工一块或多块印制板。需要时，还包含一块或多块附连测试板。(又见“料板， Blank”。)		A record that defines the characteristics of a subsequent set of records such as job identification, electrical description, tolerances, etc.	
Panel Drawing	26.0826	参数记录	25.0829
A document that shows the production master with related manufacturing patterns and artifacts that relate to the fabrication of printed boards.		详细说明作业标识、电气说明、公差等的一组连续记录特性的一个记录。	

Pareto Analysis**94.0830**

A problem-solving technique whereby all potential problem areas or sources of variation are ranked according to their contribution to the end result.

帕拉多分析**94.0830**

根据其对最终结果的影响，将所有潜在问题区域或变异源进行排列的一种解决问题方法。

Partial Lift**74.0831**

A bonded lead that has been partially removed from the bonding area.

局部起翘**74.0831**

已与键合区部分脱离的键合引线。

Partially-Clinched Lead**72.1467**

A component lead that is inserted through a hole in a printed board and is then formed in order to retain the component in place and but not necessarily in order to make metal-to-metal contact with a land prior to soldering. (See also "Clinched Lead.")

部分折弯引线**72.1467**

将元器件的引线穿过印制板的通孔后弯折从而固定元器件位置，但无需在焊接前将金属引线同连接盘接触。(又见“折弯引线，Clinched Lead”。)

Passivation**57.0832**

The formation of an insulating layer to protect a surface from contaminants, moisture and particulate matter.

钝化（处理）**57.0832**

为防止物体表面受污染、受潮或粘附颗粒物质而在其表面生成一种绝缘层。

Passive Array**30.2163**

Comprises multiple passive components of like function, which are formed on the surface of a separate substrate and packaged in a single SMT case. The case is then mounted on the primary interconnect substrate of the system. Examples include an array of capacitors or resistors. See Figure P-1.

被动（无源）阵列**30.2163**

由形成在一个单独的基板板上，并封装在单一的SMT壳体内的多个具有相似功能的被动（无源）元器件组成。该壳体可贴装在系统的主互连基板上。如电容或电阻阵列。见图P-1。

Passive Base Material**44.0834**

Base material, that does not exhibit transistance, that serves as the physical support and thermal sink for film circuits.

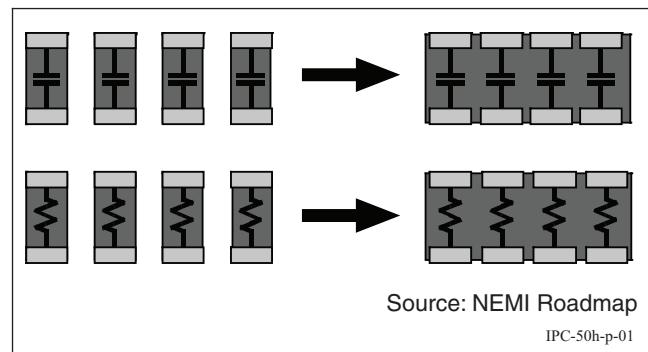
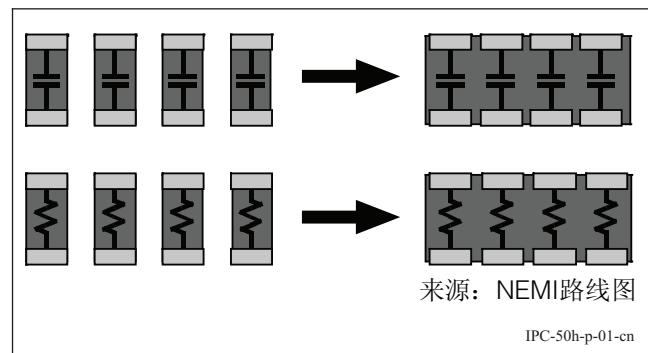


Figure P-1 Passive Array



图P-1 Passive Array

惰性基材**44.0834**

不具备晶体管效应，只用作膜电路的物理支撑和散热片的基材。

Passive Component (Element)**30.1468**

A discrete electronic device that behaves in a fixed way in response to a signal of a given characteristic. (This includes components such as resistors, capacitors, inductors and transformers.)

被动（无源）元器件（元素）**30.1468**

以固定的方式对给定的信号做出反应的分立电子器件。(包括电阻、电容、电感和变压器等元器件。)

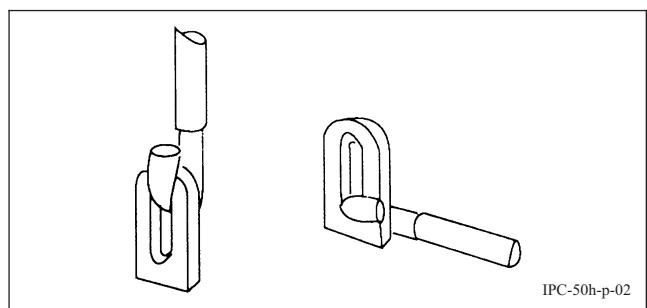
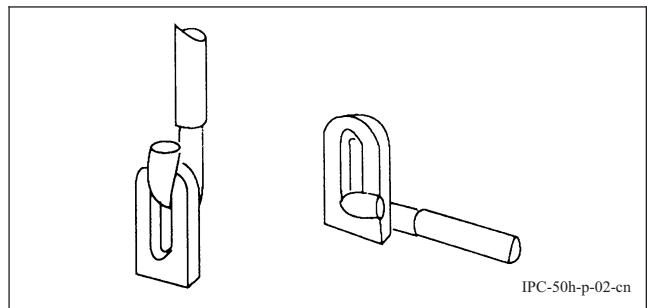
Passive Network**30.2164**

Passive networks comprise multiple passive components of more than one function, which are formed on the surface of a separate substrate and packaged in a single SMT case. The case is then mounted on the primary interconnect substrate of the system. Passive networks typically have some internal connections to form simple functions such as terminations or filters.

无源网络**30.2164**

由多个具有一种以上功能的被动（无源）器件组成的无源网络，无源器件形成于单独的基板表面，且封装在单个的SMT壳体内。该壳体再安装在系统的主要互连基板上。无源网络通常有内部连接以形成简单功能如：终端器或滤波器。

Passive-Active Cell	76.0833	Pattern Plating	53.0840
A cell whose electromotive force is due to the potential difference between a metal in an active state and the same metal in a passive state.		The selective plating of a conductive pattern and associated holes.	
钝化-活化电池	76.0833	图形电镀	53.0840
由活性状态金属与惰性状态同种金属之间的电势差产生电动势的原电池。		对导电图形及相关孔的选择性电镀。	
Paste Flux	75.0836	Peel Adhesion (Pressure Sensitive Tape)	75.1958
A flux formulated in the form of a paste to facilitate its application. (See also "Solder Paste" and "Solder-Paste Flux.")		The force required to break the bond between pressure sensitive tape and the surface to which it is applied.	
膏状助焊剂	75.0836	剥离附着力 (压敏胶带)	75.1958
为了便于使用而配制成膏状形式的助焊剂。(见“焊膏， Solder Paste”和“焊膏助焊剂， Solder Paste Flux”。)		从与其相粘结的物体表面剥离压敏胶带所需要的力量。	
Paste-in-Hole	75.1883	Peel Strength	92.0841
See "Intrusive Soldering."		The force per unit width that is required to peel a conductor foil from a laminate perpendicular to the surface of the substrate.	
通孔内焊接	75.1883	剥离强度	92.0841
见“插入焊接， Intrusive Soldering”。		从层压板上剥离单位宽度的导电箔所需要的垂直于基板表面的力量。	
Paste Soldering	75.0835	Peeling (Cured Solder Mask)	47.1203
A soldering method that uses a solder paste applied to the land, device termination, or both.		The loss of a portion of the solder mask from the printed board resulting from a lack of adhesion.	
焊膏焊接	75.0835	剥离 (已固化的阻焊膜)	47.1203
将焊膏涂敷在连接盘和/或器件端子的一种焊接方法。		由于粘附力不足，导致阻焊膜从印制板上局部脱落。	
Path (Electrical)	20.0837	Percent Contribution	91.0842
See "Conductor."		The amount that a single factor contributes to a total variation, expressed as a percent.	
通路 (电气)	20.0837	影响百分率	91.0842
见“导体， Conductor”。		指单一因子在总变异中所占的比例，采用百分比表示。	
Pattern	20.0838	Percent of the Field of View	92.0843
The configuration of conductive and nonconductive materials on a base material, and the circuit configuration on related tools, drawings and masters.		The specific part of interest of the minimum required field of view of a magnification device.	
图形	20.0838	视场百分比	92.0843
基材上的导电或非导电材料布局，以及有关底片、图纸及底版上的电路布局。		放大装置最小要求视场内研究对象的指定部分。	
Pattern Area	20.0839	Perforated (Pierced) Solder Terminal	37.1469
The section of a designated configuration that includes the pattern and background.		A flat-metal solder terminal with an opening through which one or more wires are placed prior to soldering. (See Figure P-2.)	
图形区	20.0839	穿孔焊接接线柱	37.1469
包括图形和背景的指定布局部分。		具有一个开孔的扁平金属焊接接线柱，焊接前可将一根或多根导线穿过其中的孔。(见图P-2。)	

**Figure P-2 Perforated (Pierced) Solder Terminal****图P-2 穿孔焊接接线柱****Perforation****54.1959**

A mechanical method that removes a portion of the material outlining the board, in order to facilitate ease of breakout (removal) from the manufacturing/assembly panel. (See "Breakaway.")

邮票孔**54.1959**

为了便于分割制作/组装在制板，从板周边去除部分材料的机械方法。(又见“分离， Breakaway”。)

Perimeter Sealing Area**30.0844**

The surface on the perimeter of the cavity of a package that is used for attachment to the package cover.

周边密封区**30.0844**

用于固定封装外壳的封装腔周边的表面。

Permanent Resist**52.0845**

A resist that is not removed after processing, e.g., plating resist that is used in a fully-additive process.

永久性抗蚀剂**52.0845**

加工后不被去除的抗蚀剂，如：用于全加成工艺电镀抗蚀剂。

Permeability**21.1803**

A general term used to express various relationships between magnetic induction and magnetizing force.

导磁率**21.1803**

用于表示磁感应及磁化力之间各种关系的通称。

Permittivity**21.1961**

The square root of the ratio of the electromagnetic wave propagation characteristics of free space to that of the dielectric medium. The permittivity, ϵ , of a material is, in general, a complex-valued (has real and imaginary parts) parameter. The real and imaginary parts of ϵ are given by ϵ_N and ϵ_O . See "Dielectric Constant."

电容率**21.1961**

自由空间的电磁波传播特性与电介质的电磁波传播特性之比的平方根。材料的电容率是一个复数(有实数和虚数部分)参数。 ϵ 的实数和虚数部分分别以 ϵ_N 、 ϵ_O 来表示。(又见“介电常数， Dielectric Constant”。)

Personality Plate**92.0234**

A translator fixture plate drilled to match the product under test.

专用模板**92.0234**

与待测产品相匹配的已钻孔的转换夹具板。

Phenolic Resin**41.1962**

A thermosetting phenol and aldehyde compound resin used in printed board applications that are environmentally benign in terms of moisture, temperature and cycling exposures.

酚醛树酯**41.1962**

应用于印制线路板用覆箔板的由热固型酚类和醛类化合物缩聚形成的树脂，这种树脂在潮湿、温度和循环暴露方面对环境是无害的。

Photographic Fog**24.1470**

Any unwanted increase in density on a negative-working photographic product or a loss of density on a positive-working product that appears on exposed and processed glass film or paper that is not the result of image exposure.

照片灰雾**24.1470**

任何不需要的负像底片上的黑度增加，或正像底片上的黑度降低；它们显现于曝过光并处理过的玻璃板、底片或照相纸上，但不是图像曝光所致。

Photographic Image**24.0456**

An image in a photomask or in an emulsion that is on a film or plate.

底片图像**24.0456**

底片或照相板上光掩膜或感光乳剂中的图像。

Photographic Layer**52.0850**

A light-sensitive layer of material that is capable of being exposed and processed so that it yields a visible image.

感光层	52.0850	光成像	52.0856
能被曝光并处理产生可视图像的材料的光敏层。			
Photographic Operation	24.0851	Photoresist	52.1472
A procedure or technique that prepares a phototool for subsequent processing.			A photo-chemically reactive material, which polymerizes upon exposure to ultraviolet energy at a given wavelength customarily used to define an etching, plating, or selective stripping pattern on a substrate.
照相作业	24.0851	光致抗蚀剂	52.1472
为后续工艺而制备照相底版的工序和技术。			暴露在指定波长的紫外光能量下就能聚合的光化学反应材料，用来在基板上进行形成蚀刻、电镀或选择性剥离图形。
Photographic Plate	24.0852	Photoresist Image	52.0857
A “soda-lime-silica” sheet of glass with a photographic layer.			An exposed and developed image in a coating on a base material.
照像板	24.0852	光致抗蚀图像	52.0857
具有感光层的钠钙硅玻璃板。			基材涂层内经曝光、显影后的图像。
Photographic-Reduction Dimension	53.0255	Phototool	24.0858
The dimensions on an artwork master, such as the distance between lines or between two specified points, that indicate the extent to which the artwork master is to be photographically reduced. (The value of the dimension refers to the 1:1 scale and must be specified.)			A phototool is a physical film, Mylar® (or similar), which contains the pattern that is used to produce a circuitry image on a photo-sensitive material by way of exposure to light-energy such as UV light. (See also “Artwork,” “Artwork Master,” “Production Master,” “Working Master.”)
照相缩制尺寸	53.0255	底片	24.0858
照相原版上的尺寸，如线段之间或两个规定点之间的距离，可表明拍摄后照相原版被缩小的程度。(该尺寸值是指1:1的比例，必须对其加以规定。)			底片是一种物理膜，Mylar（或类似材料），将其暴露于光源，如UV光下，其上的图形在感光材料上生成电路图像。（可参见“照相底图，Artwork”，“照相原版，Artwork Master”，“生产底版，Production Master”，“工作原版、Working Master”。）
Photomaster	24.0853	Photooling	24.0859
See “Artwork Master.”			The entire group of photographic products that are used to produce a pattern on a base material.
照相原版	24.0853	底片组	24.0859
见“照相原版，Artwork Master”。			用于在基材上产生图形的一组完整的照相产品。
Photometry	24.0854	Photooling Aid	24.0860
The measurement of the effect of the intensity and energy of visible light on the human eye.			A photographic product that is used to assist in the inspection of, but not the transfer of, imaged patterns.
光度学	24.0854	辅助底片	24.0860
可见光的强度和能量对人眼的影响的量度。			用来辅助检验，但不是转移图像图形的一种照相产品。
Photoplotting	24.0855	Photo Via	22.1963
A photographic process whereby an image is generated by a controlled-light beam that directly exposes a light-sensitive material.			A via formed by the photo process.
光绘	24.0855		
用受控的光束直接曝光光敏材料形成图像的照相过程。			
Photoprint	52.0856		
The process of forming a circuit pattern image by exposing photo-sensitive material to light energy.			

光致导通孔 22.1963

采用感光工艺形成的导通孔。

Physical Vapor Deposition 45.1964

The deposition of a film onto the surface of a substrate by the physical transfer of vapor from the source to the substrate. (See also "Chemical Vapor Deposition.")

物理汽相沉积 45.1964

通过汽相从源到基板的物理转移在基板表面沉积一层膜。(又见“化学气相沉积， Chemical Vapor Deposition”。)

Pick 44.0861

Filling yarn that runs crosswise to the entire width of a fabric.

纬纱 44.0861

横向穿过织物整个宽度的纱线。

Pick-Up Force 73.1760

The force required to pick up a surface mounting component from its packaging medium for placement on a substrate.

拾取力 73.1760

为了将表面贴装元器件贴装到基板上，从包装介质中取出表面贴装元器件所需要的力。

Pick-Up Tool 73.1759

A tool used to pick up surface mount components from a packaging medium for placement on a substrate and which may be hand activated or a part of a pick-and-place machine.

拾取工具 73.1759

为了将表面贴装元器件贴装到基板上，从包装介质中取出表面贴装元器件所使用的工具，可以是手动的，或是贴装机的一部分。

Pilot Hole 22.0862

See "Tooling Hole."

导向孔 22.0862

见“定位孔， Tooling Hole”。

Pin Grid Array (PGA) 31.1965

A square or rectangular component package with pins protruding from the bottom surface with a pitch perpendicular to the plane of the package. (See Figure P-3.)

针栅阵列 (PGA) 31.1965

带有从封装底部伸出且与封装平面垂直的插针的方形或矩形元器件封装。(见图P-3。)

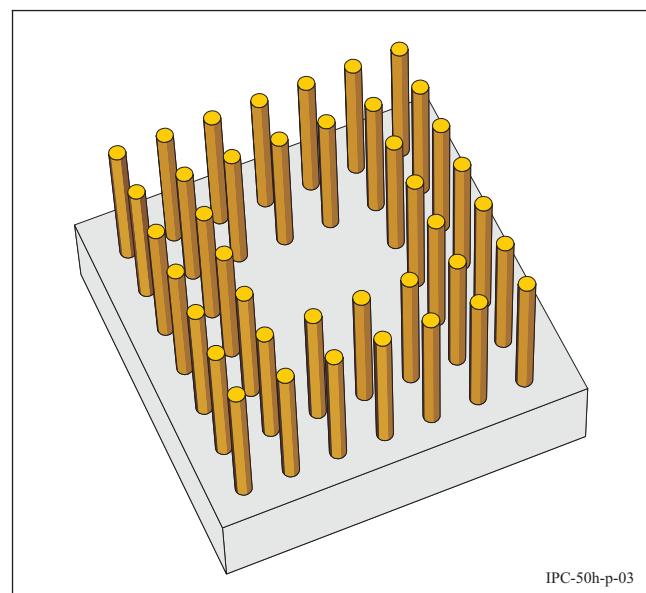
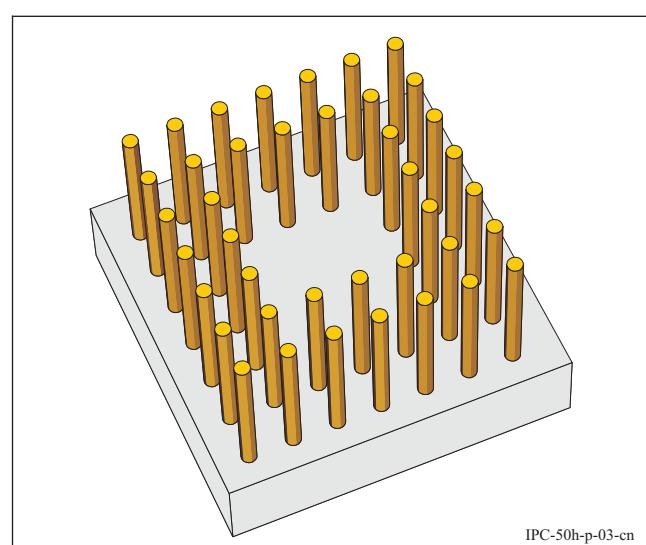


Figure P-3 Pin Grid Array



图P-3 针栅阵列

Pin Lamination 55.1966

A manufacturing technique utilizing pins to align various innerlayers and prepreg (adhesive layers) during the multi-layer lay-up and lamination process.

销钉层压 55.1966

在多层板的叠合和层压过程中采用销钉对准各种内层和半固化片（粘合层）的制造技术。

Pin-hole (Base Materials) 41.1967

An open point in the resin coverage of the reinforcement, usually within the window formed by adjacent yarns in x and y directions.

针孔 (基材) 41.1967

位于增强材料上树脂覆盖处的敞口点，通常位于由X和Y方向上相邻的纱线形成的窗口内。

Pinhole (Material)	92.0863	Pixel	25.0867
An imperfection in the form of a small hole that penetrates entirely through a layer of material. (See also "Pit" and "Solder Connection Pinhole.")		The smallest definable picture element area capable of being displayed.	
针孔 (材料)	92.0863	像素	25.0867
完全穿透一层材料的小孔形式的缺陷。(又见“麻点, Pit”和“焊接连接针孔, Solder Connection Pinhole”。)		能够被显示的最小可确定的像点面积。	
Pinhole (Phototool)	24.0864	Placement Force	73.1761
A clear defect that is completely within a black pattern or in the black background of a clear pattern.		The force required to deposit a surface mount component.	
针孔 (底片)	24.0864	贴放力	73.1761
完全在黑色图形之内或在透明图形的黑色背景范围内的透明缺陷。		放置一个表面贴装元器件所需要的力量。	
Pin-In-Hole	75.1884	Plain Hole	22.1968
See "Intrusive Soldering."		See "Unsupported Hole."	
孔中插针焊接	75.1884	平孔	22.1968
见“插入焊接, Intrusive Soldering”。		见“非支撑孔, Unsupported Hole”。	
Pink Ring	55.0865	Plain Weave	44.0868
A zone around a through-hole/innerlayer interface from which a copper oxide coating has been chemically removed.		A fabric configuration whereby each warp end goes over one pick and under the next, and whereby each pick goes over one warp end and under the next.	
粉红环	55.0865	平纹编织	44.0868
用化学方法去除铜氧化层后通孔/内层界面周围的粉色区域。		经纱、纬纱一上一下交叉编织而成的织物结构。	
Pit	92.0866	Planar Resistor	45.1969
An imperfection in the form of a small hole that does not penetrate entirely through a layer of foil. (See also "Pinhole, Material.")		An etched or deposited resistive element incorporated within or on the surface of the printed board.	
麻点	92.0866	平面电阻	45.1969
未完全穿透金属箔层的小孔形式的缺陷。(又见“针孔 (材料), Pinhole (Material)”。)		位于线路板表面或线路板内部的蚀刻或沉积阻抗元件。	
Pitch	22.1473	Planar-Mount Device	33.0869
The nominal center-to-center distance between adjacent features. (When the features are of equal size and their spacing is uniform, the pitch is usually measured from the reference edge of the adjacent features.)		See "Surface-Mount Component (SMC)."	
间距	22.1473	平面贴装器件	33.0869
相邻要素之间的标称中心距离。(当要素大小相同且其间隔均匀时, 通常从相邻要素的基准边测量间距。)		见“表面贴装元器件 (SMC), Surface-Mount Component (SMC)”。	
Planar Board		Planar Board	60.1970
		A substrate on which bare chips and surface- and insertion-mount components are mounted. After being mounted with these components, the substrate is no longer heated for mounting on other planar boards. It generally includes motherboards, daughter cards, etc.	
面板		面板	60.1970
		安装有裸芯片、表面贴装元器件和插装元器件的基板。安装这些元器件后, 该基板将不再被加热安装到其它平面板上。通常包括母板、子卡板等。	

Plastic	40.0870	塑封方形扁平封装 (PQFP)	33.1974
Any of a group of synthetic or natural organic materials that may be shaped when softened and then hardened.			一种表面贴装系列的集成电路封装，四边均缚有保护引线共面性和避免引线变形的“角耳”，引线从封装体的四周向外延伸，并成型为“鸥翼”形式。
塑料	40.0870	Plate Finish, Laminating	55.1474
先软化然后硬化即可定型的任何一组合成或天然有机材料。			The surface finish, without modification by subsequent processing, of the metal on metal-clad base material that results from direct contact with laminating press plates.
Plastic QFP (PQFP)	33.1973	层压模板抛光	55.1474
See “Quad Flat Pack.”			让层压模板相互之间直接磨擦而产生光滑表面的一种无需后续修整的表面处理方法。
塑封QFP (PQFP)	33.1973	Plated-Through Hole (PTH)	22.1475
见“方形扁平封装，Quad Flat Pack”。			A hole with plating on its walls that makes an electrical connection between conductive patterns on internal layers, external layers, or both, of a printed board. (See Figure P-4.)
Plastic Ball Grid Array (PBGA)	33.1971		IPC-50h-p-04
A polymer based package with interconnects formed of tin-lead or lead-free solder spheres. The solder interconnects are located in an array area in board side of package.			
塑封球栅阵列 (PBGA)	33.1971		IPC-50h-p-04-cn
Plastic Deformation	40.0871	镀覆孔 (PTH)	22.1475
Deformation that does, or will, remain permanent after removal of the load that caused it.			孔壁镀覆有金属的孔，其可实现印制板内层、外层或内外层上导电图形之间的电气连接。(见图P-4。)
塑性变形	40.0871		IPC-50h-p-04
Plastic Device	30.0872	图P-4 镀覆孔 (PTH)	
A semiconductor component wherein the package or encapsulant is plastic.			
塑封器件	30.0872	Plated-Through Hole Structure Test	92.1476
其封装或密封为塑料的半导体元器件。			The visual examination of the metallic conductors and plated-through holes of a printed board after the dielectric material has been dissolved away.
Plastic Leaded Chip Carrier (PLCC)	33.1972	镀覆孔结构测试	92.1476
A surface mount family of integrated circuit packages with leads exiting from all four sides of the package, generally with a 1.27 mm [0.050 in] lead-to-lead pitch.			将镀覆孔的介质材料溶解后对印制板金属导体和镀覆孔进行的目检。
塑封有引线芯片载体 (PLCC)	33.1972		
封装四周都有引线伸出的表面贴装系列集成电路封装，引线间距通常为1.27mm[0.050in]。			
Plastic QUAD Flat Pack (PQFP)	33.1974		
A surface mount family of integrated circuit packages, bounded on all four sides by bumpers, with leads exiting from all four sides of the package and formed into a “gull-wing” lead format.			

Plating**53.0874**

Chemical or electrochemical deposition of metal on an entire surface (see "Panel Plate") or on a conductive pattern (see "Pattern Plate").

电镀**53.0874**

金属在整个表面（见“全板电镀，Panel Plate”）或导电图形（见“图形电镀，Pattern Plate”）上化学或电化学的沉积。

Plating Bar**53.0876**

The conductive path that temporarily interconnects areas of a conductive pattern that are to be electroplated. (See also "Bus Bar.")

电镀工艺导线**53.0876**

与待电镀的导电图形暂时性互连的导电通路。（见“汇流排，Bus Bar”。）

Plating, Burned**53.0875**

A rough, dull electrodeposit that was caused by excessive plating current density.

镀层烧焦**53.0875**

因电镀电流密度过大而产生的粗糙无光泽的电沉积。

Plating Fold**53.2168**

A condition at an area of hole sidewall irregularity where the plating conditions cause the edges of a plating cavity to fuse together and form an enclosure. This cavity can entrap contaminants or process chemistry. (See Figure P-5.)

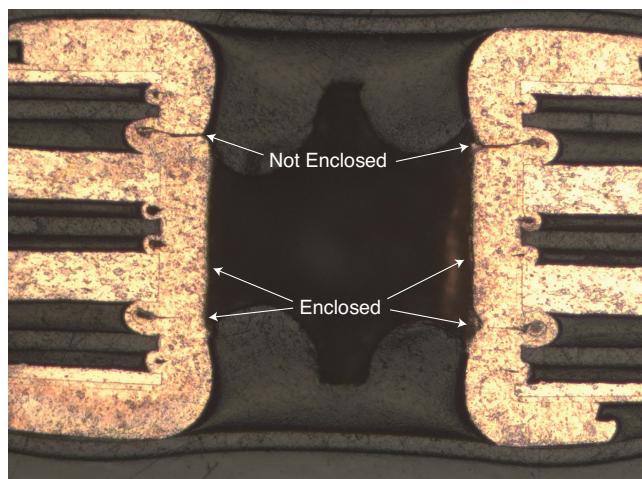
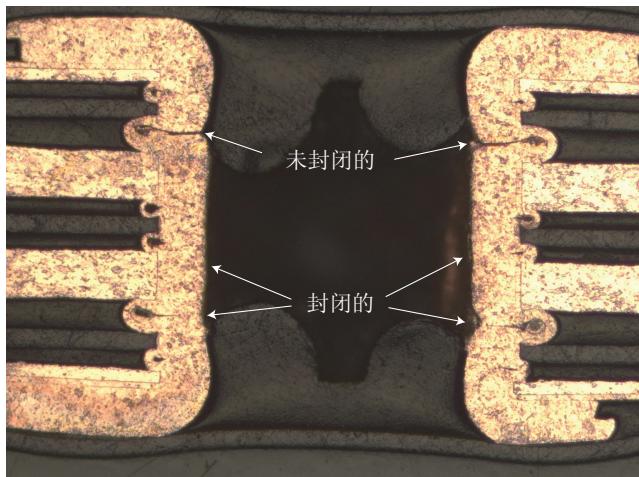


Figure P-5 Plating Fold

镀层折叠**53.2168**

铜层折叠一般发生在孔侧壁不规则的区域，这种镀层状况会造成镀层空洞边缘熔合在一起并封闭。这种空穴会截留污物或工艺化合物。（见图P-5。）



图P-5 镀层折叠

Plating Resist**52.1975**

An organic material intended to prevent the deposition of metallic plating on specific portions of copper planes that are on the surface of copper-clad laminate or printed board overlayers.

电镀抗蚀剂**52.1975**

用于防止金属镀层沉积在覆铜箔层压板或印制板外层铜表面指定部分的有机材料。

Plating Solution**45.1976**

A chemical solution containing metal ions used in plating a metal-film on a substrate. Also may be referred to as an electrolyte.

电镀溶液**45.1976**

含有金属离子的化学溶液，可用于在基板上电镀金属膜。这种溶液又可称为电解液。

Plating Thief**53.1477**

A racking device, or nonfunctional pattern on a panel, that is used to help achieve a more uniform current density on plated parts during an electroplating process.

分流阴极**53.1477**

电镀工艺中使用的挂具或在制板上的非功能图形，可使电镀件上的电流密度更均匀。

Plating, Palladium**53.1953**

One of the lead-free platings using palladium. The basis metal should be Cu or Ni, but not Fe-Ni because of corrosion.

钯镀层**53.1953**

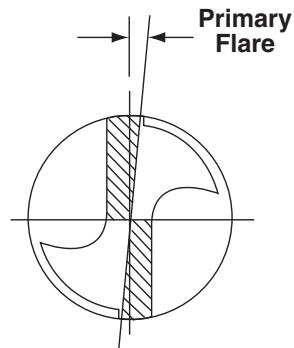
采用钯的一种无铅镀层，基底金属应采用铜或镍，由于腐蚀问题不应采用铁/镍合金。

Plating, Tin (Sn)	53.1954	Plenum	54.1978
One of the lead-free platings using tin only and employed mainly for passive chip components. When using Tin (Sn) plating, the occurrence of whiskers is a possibility and should be avoided.		A chamber that is used to uniformly distribute a fluid, e.g., air, nitrogen, or other gas, into a processing chamber.	
锡 (Sn) 镀层	53.1954	增压箱	54.1978
只采用锡的一种无铅镀层，主要用于无源片式元器件。采用锡镀层时，可能会出现锡晶须，应尽量避免。		用于将流体，如空气、氢气或其它气体均匀地分布到加工腔内的箱体。	
Plating, Tin Bismuth (Sn-Bi)	53.1955	Plied Yarn	44.0878
One of the lead-frees plating using tin with bismuth added to no more than about 3%.		Yarn with two or more twisted yarns.	
锡铋 (SnBi) 镀层	53.1955	合股线	44.0878
主要采用锡的一种无铅镀层，锡中填加了不大于3%的铋。		由两股以上的绞合纱线组成的纱。	
Plating, Tin Copper (Sn-Cu)	53.1956	Plotting	24.0879
One of the lead-frees plating using tin with copper added no to more than about 2.5%.		The mechanical converting of X-Y positional information into a visual pattern, such as artwork.	
锡铜 (SnCu) 镀层	53.1956	绘图	24.0879
主要采用锡的一种无铅镀层，锡中填加了不大于2.5%的铜。		采用机械方法将X-Y位置信息转换为可视图形，如照相底图。	
Plating, Tin Silver (Sn-Ag)	53.1957	Plug Connector	37.0880
One of the lead-free platings using tin with silver added to about 3%.		The unmounted half of a two-piece connector pair that mates with a receptacle connector.	
锡银 (SnAg) 镀层	53.1957	插塞式连接器	37.0880
主要采用锡的一种无铅镀层，锡中填加了不大于3%的银。		两件式连接器中与插座连接器配接的未固定的另一半。	
Plating Up	53.0877	Point Angle	51.0881
The electrochemical deposition of a conductive material on a base material that takes place after the base material has been made conductive.		The included angle between the two primary cutting edges of a drill.	
镀层加厚	53.0877	顶角	51.0881
在已处理为导电的基材上再电化学沉积导电材料。		钻头的两主切削面所构成的夹角。	
Plating Void	53.1977	Poise	46.1607
An isolated location where the plating is absent or the plating thickness is less than the minimum specified copper thickness.		A metric unit of measure of viscosity expressed as dyne-seconds per square centimeter.	
镀层空洞	53.1977	泊	46.1607
无镀层或镀层厚度小于规定的最小铜厚度的孤立点。		量度粘度的公制单位，表示为达因秒每平方厘米。	
		Poisson Distribution	91.1478
		A discrete probability distribution for attributes data that is particularly applicable when there are many opportunities for the occurrence of an event but a low probability on each trial.	
		泊松分布	91.1478
		属性数据的离散性概率分布，特别适用于发生的机 会很多、但每次试验中的概率很低的事件。	

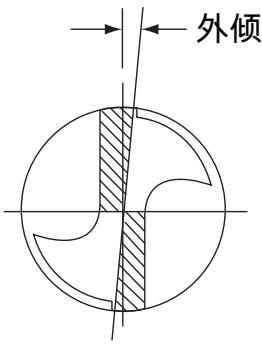
Polar Matter	76.0883	聚合物	40.1479
A substance that can dissolve in water and hydrophilic solvents.		由许多相似或不相似的分子单位聚合连接在一起，或者由许多小分子缩聚，再除去水、乙醇或其他溶剂而形成的高分子量化合物。	
极性物质	76.0883	Polymer Reversion	76.1480
能溶于水和亲水溶剂中的物质。		The irreversible softening or liquification of a polymer as the result of hydrolysis due to the bombardment of the polymer with vapor molecules that contain an active hydroxyl group.	
Polar Solvent	76.1815	聚合物裂解	76.1480
A liquid that is ionized to the extent that it is electrically conductive, that can dissolve polar compounds (such as hydrocarbons and resins), but cannot dissolve nonpolar compounds (such as inorganic salts).		由于含活性羟基的蒸汽分子对聚合物的轰击，水解引起不可逆的聚合物软化或液化。	
极性溶剂	76.1815	Polymerize	40.0884
一种可电离至导电的液体，它能溶解极性化合物（如碳氢化合物和树脂），但不能溶解非极性化合物（如无机盐）。		To form a polymer or polymeric compound.	
Polarized Component	30.1981	聚合	40.0884
A component wherein the terminations are assigned as positive or negative electrical polarity.		形成聚合物或聚合混合物。	
极性元器件	30.1981	Polymerized Rosin	76.0885
端子被明确指定为正电极或负电极的元器件。		Rosin that has reacted with itself during the course of a soldering operation.	
Polarizing Slot	22.0882	聚合松香	76.0885
A slot in the edge of a printed board that is used to assure the proper insertion and location of the board in a mating connector. (See also "Keying Slot.")		在焊接操作期间与自身发生反应的松香。	
极性槽	22.0882	Porosity (Solder)	75.0886
位于印制板边缘用来确定板子在配接的连接器内正确插入和定位的槽。（又见“键槽， Keying Slot”。）		A solder coating with an uneven surface and a spongy appearance that may contain a concentration of small pin-holes and pits.	
Polyester	42.1982	疏孔（焊料）	75.0886
The synthetic polymer that has more than two ester radicals in the main chain.		焊料涂覆层由于含有密集的小针孔和麻点使其表面不均匀且外观多孔。	
聚酯	42.1982	Positional Tolerance	22.0887
主链上有两个以上酯基团的合成聚合物。		The amount that a feature is permitted to vary from its true-position location.	
Polyimide	42.1983	定位公差	22.0887
The synthetic polymer that has more than two imide radicals in the main chain.		针对要素准确位置所允许的变动量。	
聚酰亚胺	42.1983	Positive Pattern	24.0888
主链上有两个以上酰亚胺基团的合成聚合物。		An artwork, artwork master, or production master in which the pattern being fabricated is opaque to light and the other areas are transparent.	
Polymer	40.1479	正像图形	24.0888
A compound of high molecular weight that is derived from either the joining together of many small similar or dissimilar molecules or by the condensation of many small molecules by the elimination of water, alcohol, or some other solvent.		待加工的线路图形为不透明、而其它区域为透明的照相底图、照相原版或生产底版。	

Positive-Acting Resist	52.1481	Power Factor	21.0894
A resist that is decomposed (softened) by light and which, after exposure and development, is removed from those areas of surface that were under the transparent areas of a production master.		The cosine of the angle of phase difference between current and the voltage applied.	
正性抗蚀剂	52.1481	功率因素	21.0894
见光分解（软化）的抗蚀剂，在曝光和显影后，生产底版透明区域下面的抗蚀剂被除去。		所施加的电流和电压之间相位差的角的余弦。	
Post	37.0889	Power of Experiment	91.0895
See "Terminal."		The probability of rejecting the results of the null hypothesis when it is false and of accepting the alternative hypothesis when it is true.	
端柱	37.0889	实验功效	91.0895
见“接线柱， Terminal”。		当原假设结果为伪时，拒绝该结果；以及当备择假设为真时，接收该结果的概率。	
Post Curing	56.0890	Power of Source	24.0896
Heat aging in order to stabilize material through stress relieving.		See "Radiant Intensity."	
后固化	56.0890	源功率	24.0896
通过消除应力来稳定材料的加热老化。		见“辐射强度， Radiant Intensity”。	
Postprocessing	25.0891	Power Plane	22.0897
Manipulating data after it has been generated or run through a batch process.		See "Voltage Plane."	
后处理	25.0891	电源层	22.0897
通过批处理产生或运行数据后，再对其进行处理。		见“电压层， Voltage Plane”。	
Postprocessor	25.1482	Power Plane Inductance	21.1804
A software procedure or program that interprets data and formats it into data that is readable by a numerically-controlled machine or by other computer programs.		The inductance in response to AC noise, seen on a DC backplane system.	
后处理程序	25.1482	电源层电感	21.1804
将数据或格式转换为数控设备或其它计算机程序可读的数据的软件程序。		在直流电背板系统上可见的响应交流干扰的电感。	
Potting Compound	47.0892	Preconditioning	71.1762
A material, usually organic, that is used for the encapsulation of components and wires.		Preparation of a component or assembly for processing or testing.	
灌封化合物	47.0892	预处理	71.1762
用于灌封元器件和导线的材料，通常为有机化合物。		为了进行加工或测试，对元器件或组件所作的准备工作。	
Power Dissipation	21.0893	Preferred Solder Connection	75.0899
The energy used by an electronic device in the performance of its function.		A solder connection that is smooth, bright, and feathered-out to a thin edge in order to indicate proper solder flow and wetting action. Also no bare metal is exposed within the solder connection and there are no sharp protrusions of solder or the evidence of contamination, e.g., embedded foreign material.	
功耗	21.0893		
电子器件在执行其功能过程中所耗用的能量。			

优质焊点	75.0899	预热力	75.1984
光滑、明亮并呈羽状的薄边缘焊点，它表明焊处具有适宜的焊料流动及润湿作用。此外，焊点内不裸露金属基材且无尖锐焊料凸出物和污染物，如夹裹的外来物。			
Pre-finish (n.)	55.0898	Preheating (v.)	56.1483
A coupling agent that is applied on a fiber in order to improve compatibility with resins.			The raising of the temperature of a material(s) above the ambient temperature in order to reduce the thermal shock and to influence the dwell time during subsequent elevated-temperature processing.
预调整剂	55.0898	预热 (动词)	56.1483
为了改善纤维与树脂的兼容性而涂敷在纤维上的耦合剂。			为了减少热冲击和在后续的升温过程中影响保温时间，使材料温度升高至室温以上。
Pre-setting	73.1986	Preimpregnated Bonding Sheet	41.0903
The fixing of component(s) to prescribed position using adhesive to prevent the movement of components during soldering.			See "Prepreg."
预定位	73.1986	预浸粘结片	41.0903
使用粘合剂将元器件固定到规定的位置，以防止元器件在焊接过程中移动。			见“预浸材料， Prepreg”。
Preflow	55.0900	Prepreg	41.0904
See "Stabilization Period."			A sheet of material that has been impregnated with a resin cured to an intermediate stage, i.e., B-staged resin.
预流动	55.0900	预浸材料	41.0904
见“稳定期， Stabilization Period”。			已浸有固化至中间阶段即B阶树脂的材料片。
Pregelation Particle	92.0901	Pressfit Contact	37.0905
See "Prepreg."			An electrical contact that can be pressed into a hole in an insulator or printed board with or without plated-through holes.
预凝胶粒子	92.0901	压合接触件	37.0905
见“预浸材料， Prepreg”。			能够被压入绝缘体孔内或有镀覆孔或无镀覆孔的印制板内的电气接触件。
Preheat (n.)	56.0902	Pretinning	53.0906
A preliminary phase of a process during which the product is heated at a predetermined rate from ambient temperature to a desired elevated temperature.			See "Tinning."
预热 (名词)	56.0902	预上锡	53.0906
将产品按照预定的速度从室温加热至预定升高温度的过程初始阶段。			见“上锡， Tinning”。
Preheat Force	75.1984	Primary Flare	51.0907
In hot-bar conductive soldering, that portion of the force profile where light contact pressure is made during preheat between a thermode and the component leads being terminated to allow for wetting of the metals being joined prior to the application of the full bonding force.			A condition whereby the drill's primary relief is wider at its periphery than it is at its center. (See Figure P-6.)
外倾		外倾	51.0907
钻头第一后脚在圆周处比其在中心处宽的状况。(见图P-6。)			钻头第一后脚在圆周处比其在中心处宽的状况。(见图P-6。)



IPC-50h-p-06

Figure P-6 Primary Flare

IPC-50h-p-06-cn

图P-6 外倾**Primary Relief****51.0908**

The clearance angle at the outer corner of the cutting edge of a drill point.

第一后角**51.0908**

钻尖的切削刃部分外角处的余隙角。

Primary Side**22.1484**

The side of a packaging and interconnecting structure that is so defined on the master drawing. (It is usually the side that contains the most complex or the most number of components.)

正面**22.1484**

布设主图中所规定的封装与互连结构面。(通常是包含有最复杂或最多元器件的一面。)

Primary Stage of Manufacture**92.0909**

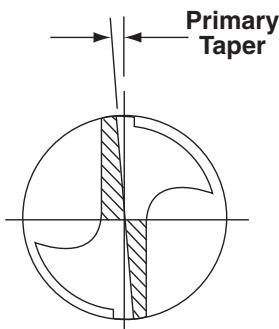
That time during the manufacturing of a product when it is ready for inspection prior to shipment.

制造主要阶段**92.0909**

产品在整个制造过程中处于发货前、备好待检验的阶段。

Primary Taper**51.0910**

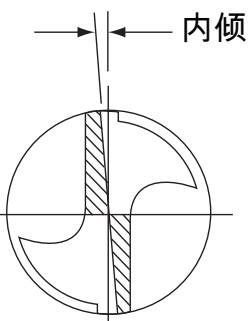
A condition whereby the primary relief is wider at the center of a drill than it is at the periphery. (See Figure P-7.)



IPC-50h-p-07

Figure P-7 Primary Taper**内倾****51.0910**

钻头第一后脚在中心处比其在圆周处宽的状况。(见图P-7。)



IPC-50h-p-07-cn

图P-7 内倾**Print Contrast Signal****70.1987**

In bar code symbols, a comparison between the reflectance of the bars and spaces.

印刷对比信号**70.1987**

条码符号中，条与空反射系数之间的比较。

Printed Board (PB)**60.1485**

The general term for completely processed printed circuit and printed wiring configurations. (This includes single-sided, double-sided and multilayer boards with rigid, flexible, and rigid-flex base materials.)

印制板 (PB)**60.1485**

加工完毕的印制电路与印制线路结构的通称。(它包括采用刚性、柔性以及刚挠性基材制成的单面、双面和多层板。)

Printed Board Assembly**80.0911**

The generic term for an assembly that uses a printed board for component mounting and interconnecting purposes.

印制板组件**80.0911**

对采用印制板来装连元器件的组件的通称。

Printed Board Assembly Drawing **26.1486**
 The document that shows a printed board, separately manufactured components, and any information necessary to describe the joining of them together in order to perform a specific function.

印制板组装图 **26.1486**
 用以图示印制板和独立制造的元器件，以及描述如何将其连接到一起以完成特定功能的所有必要信息的文件。

Printed Circuit **60.0912**
 A conductive pattern that is composed of printed components, printed wiring, discrete wiring, or a combination thereof, that is formed in a predetermined arrangement on a common base. (This is also a generic term that is used to describe a printed board that is produced by any of a number of techniques.)

印制电路 **60.0912**
 由在公用基材上按照预定布局形成的印制元器件、印制线路、分立线路或其组合组成的导电图形。(它也是用于描述由各种技术制作的印制板的通称。)

Printed Circuit Board **60.1487**
 Printed board that provides both point-to-point connections and printed components in a predetermined arrangement on a common base. (See also "Printed Wiring Board.")

印制电路板 **60.1487**
 在公共基材上按照预定布局提供点到点连接及印制元器件的印制板。(又见“印制线路板, Printed Wiring Board”。)

Printed Circuit Board Assembly **80.0913**
 An assembly that uses a printed circuit board for component mounting and interconnecting purposes.

印刷电路板组件 **80.0913**
 采用印制电路板实现元器件安装和互连的组件。

Printed Component **52.0914**
 A part (such as an inductor, resistor, capacitor, or transmission line) that is formed as part of the conductive pattern of a printed board.

印制元器件 **52.0914**
 作为印制板导电图形一部分所形成的部件(如电感、电阻、电容和传输线等)。

Printed Components, Conductive Inks **52.1600**
 Component (e.g., printed inductor, resistor, capacitor or transmission line) forming part of the pattern of a printed circuit.

导电油墨印制元器件 **52.1600**
 用导电油墨形成的并成为印制电路图形一部分的元器件(如印制电感、电阻、电容或传输线等)。

Printed Contact **22.0915**
 A portion of a conductive pattern that serves as one part of a contact system.

印制接触片 **22.0915**
 作为接触件系统的一部分而形成的部分导电图形。

Printed Edge-Board Contact **22.0916**
 See "Edge-Board Contact."

印制板边接触片 **22.0916**
 见“板边接触片, Edge-Board Contact”。

Printed Wiring **60.1488**
 A conductive pattern that provides point-to-point connections but not printed components in a predetermined arrangement on a common base. (See also "Printed Circuit.")

印制线路 **60.1488**
 在公共基材上,按预定的布局提供点到点连接但没有印制元器件的导电图形。(又见“印制电路, Printed Circuit”。)

Printed Wiring Board **60.1489**
 A printed board that provides point-to-point connections but not printed components in a predetermined arrangement on a common base. (See also "Printed Circuit Board.")

印制线路板 **60.1489**
 在公共基材上,按预定的布局提供点到点连接但没有印制元器件的印制板。(又见“印制电路板, Printed Circuit board”)

Printed Wiring Board Assembly **80.0917**
 An assembly that uses a printed wiring board for component mounting and interconnecting purposes.

印制线路板组件 **80.0917**
 采用印制线路板实现元器件安装和互连的组件。

Printing **52.1592**
 Act of reproducing a pattern on a surface by any process.

印制 **52.1592**
 采用任何工艺在表面上复制图形的动作。

Probe Point	92.0919	Production Board	60.1490
The predetermined location on a printed board where electrical contact can be made to exposed circuitry for electrical diagnostic purposes.		A printed board or discrete-wiring board that has been manufactured in accordance with the applicable detailed drawings, specifications, and procurement requirements.	
探针测试点	92.0919	成品板	60.1490
在线路板上预先设计的裸露的电气接触点，被用来检测电气性能。		按照适用的详细图纸、规范及采购要求制造出来的印制板或分立线路板。	
Probe, Test	92.0918	Production Data	94.1988
A spring-loaded metal device used to make electrical contact between test equipment and the unit under test.		Normal performance data from manufacturing runs generated as a quality assurance function. This data can be compiled, analyzed, and reported as support for product compliance to a standard by the manufacturer.	
测试探针	92.0918	生产数据	94.1988
在测试设备与待测单元之间起到电气连接作用的带弹簧金属零件。		制造过程中所生成的正常性能数据，可以起到保证质量的作用。可对这些数据进行编辑、分析并报告，作为制造商产品与标准一致性的支持依据。	
Process Average	91.0920	Production Master	24.1642
The location of the distribution of measured values of a particular process characteristic.		A 1:1 scale pattern that is used to produce rigid or flexible printed boards within the accuracy specified on the master drawing. (See also "Multiple-Image Production Master" and "Single Image Production Master.")	
过程平均	91.0920	生产底版	24.1642
特殊过程特性测量值的分布位置。		1:1比例的图形，可用于按照布设主图规定精度生产刚性或挠性印制板。(又见“多重图像生产底版”，“单个图像生产底版”，Single Image Production Master”。)	
Process Indicator	91.0921	Production Panel (PP)	50.1787
A detectable anomaly, other than a defect, that is reflective of material, equipment, personnel, process and/or workmanship variation.		An arrangement of printed boards fabricated from laminate or base materials as a group in a specific cluster to facilitate economic fabrication techniques using controlled and documented chemical, mechanical and electrical processes.	
制程警示	91.0921	生产拼版 (PP)	50.1787
可检测出的反映材料、设备、人员、工艺和/或工艺变异的异常，但不是缺陷。		为了便于经济生产，采用受控和文档化的化学、机械的和电子工艺，用层压板或基材制作的一组特定印制板的排列。	
Process Spread	91.0922	Production Printed Board (PPB)	50.1786
The extent to which the individual values of a process may vary.		A printed board fabricated from laminate or base materials in an environment that consists of controlled and documented chemical, mechanical and electrical processes used in combination to produce the features and characteristics of the final printed board product.	
制程散布	91.0922	成品印制板 (PPB)	50.1786
制程的单个值可能变化的范围。		用层压板或基材在受控的、文档化的、可生产出最终印制板产品的性能和特性的化学、机械和电气工艺相结合的条件下制作出的印制板。	
Processability	70.1763		
Suitable and capable of being processed.			
可加工性	70.1763		
适合及能够被加工。			
Producer's Risk	93.0923		
See "Alpha Error."			
生产方风险	93.0923		
见“ α 错误， Alpha Error”。			

Proficiency	91.1989	Pull-off Strength (SMD)	97.1991
The capability to perform tasks in accordance with requirements and verification procedures.		The force required to remove a surface mount device (SMD) mounted on a printed board by the application of a force that is perpendicular and away from the surface upon which it is mounted.	
Mastery	91.1989	Pull Strength (SMD)	97.1991
按照要求和验证工艺规程完成任务的能力。		去除贴装在印制板上的一个表面贴装器件 (SMD) 时所需的垂直于器件贴装表面的力。	
Profile Factor	92.1492	Pull-Out Strength	97.1816
The amount by which the overall average thickness of a metal exceeds the thickness that is calculated from the established density of the metal and the area of the sample.		The force, normal to the printed board, required to separate the metallic wall of a plated-through hole from the base material.	
External Factor	92.1492	Pull Strength	97.1816
金属的总平均厚度超出根据已知 (公认) 金属密度以及样本面积计算而得厚度的数量。		使镀覆孔金属层与基材分离所需的垂直于印制板的力。	
Propagation Delay	21.1493	Pulse, Digital	21.1494
The time from output to input required for a signal to travel along a transmission line, or the time required for a logic device to receive an input stimulus, perform its function, and present a signal at its output.		A logic signal that switches from one digital state to the other and back again in a short period of time, and that remains in the original state for most of the time.	
Transmission Delay	21.1493	Digital Pulse	21.1494
信号延时传输线从输出到输入所需要的时间，或指一个逻辑器件从接收到一个输入脉冲、完成其功能、到输出一个信号所需要的时间。		在较短期间内从一种数字状态转换到另一种状态并在短时间内又返回的逻辑信号，在大多数时间都处于初始态。	
Proportional Dimensions	92.0924	Pulse Soldering	75.0926
The distortion of an optical system used in a magnification device.		Soldering by the heat generated by pulsing an electrical current through a high resistance point of the joint area and the solder.	
Proportion Dimension	92.0924	Pulse Welding	75.0926
用于放大装置中的光学系统变形。		由脉冲电流通过连接区域和焊料所组成的高电阻点产生热所进行的焊接。	
Protective Isolation Coating	47.2181	Punching	51.1992
Adhesive material having a known dielectric used to insulate conductors.		Formation of a hole, a slot, or a finished board by use of a female die and a male punch.	
Protective Insulation Layer	47.2181	Punching	51.1992
含有已知介质的粘性材料，用于隔离导体。		采用冲模和冲头形成孔、槽或成品板。	
Conductor Protrusion	96.1990	Push Back	51.1993
See "Conductor Protrusion."		The process of returning the printed board or printed board assembly that has been removed from the panel, back into its original position.	
Conductor Projection	96.1990	Reposition	51.1993
见“导体突出， Conductor Protrusion”。		将已从在制板上裁下的印制板或印制板组件放回到原始位置的过程。	
Pull Strength	92.0925		
See "Bond Strength."			
Pull Strength	92.0925		
见“粘合强度， Bond Strength”。			

Push-Off Strength	97.0928	Qualification Testing	94.1213
The force required to dislodge a leadless component by the application of a force that is parallel to the surface upon which it is mounted.		The demonstration of the ability to meet all of the requirements specified for a product.	
推离强度	97.0928	鉴定测试	94.1213
移去无引线元器件所需的平行于元器件贴装表面的力。		实证产品能满足所有规定要求的能力测试。	
Q			
QFP with Bumper (BQFP)	33.1835	Qualitative Analysis	92.1214
A QFP package with a guarding bumper.		The subdivision of chemistry concerned with the identification of materials.	
带护耳的QFP (BQFP)	33.1835	定性分析	92.1214
带有护耳的QFP封装。		与材料鉴别有关的化学分支。	
Quad Flat J-Lead (QFJ)	33.2156	Quality Conformance Testing	94.1496
A generic rectangular component package, containing an electronic device, with leads on all four sides that are formed in a "J" shape.		Qualification testing that is performed on a regularly-scheduled basis in order to demonstrate the continued ability of a product to meet all of the quality requirements specified.	
矩形扁平J形引线封装 (QFJ)	33.2156	质量一致性测试	94.1496
含有电子器件且引线在封装体四周成形为“J”形的矩形元器件封装。		为了证明一个产品能满足所有规定质量要求的连续能力，而定期进行的质量鉴定测试。	
Quad Flat No-Lead (QFN)	33.2157	Quality-Conformance Test Circuitry	92.1495
A generic rectangular component package outline wherein the metal pad terminations are formed on four sides of the bottom of a package.		A portion of a printed board panel that contains a complete set of test coupons that are used to determine the acceptability of the board(s) on the panel.	
矩形扁平无引线封装 (QFN)	33.2157	质量符合性测试电路	92.1495
金属连接盘端子成形于封装体底部四周的矩形元器件封装。		在制板内含有的一套完整的测试附连板部分，用来确定在制板内印制板质量的可接受性。	
Quad Flat Pack (QFP)	33.1836	Quality System	90.1913
A generic rectangular component package, containing an electronic device, with leads on all four sides that are formed in a "gullwing" shape.		A set of interrelated or interacting quality elements within an organization's operations.	
方形扁平封装 (QFP)	33.1836	质量体系	90.1913
含有电子器件且在封装体四周形成鸥翼形引线的矩形元器件封装。		一个组织运行中的一套相关或相互影响的质量要素。	
Qualification Agency	94.1212	Quality Management System	94.2177
The organization that is used to perform documentation reviews and audits of an inspection or testing facility.		A management system which directs an organization in regards to quality.	
鉴定机构	94.1212	质量管理体系	94.2177
对有关文件进行评审、对一项检验或测试设备进行审核的组织。		指导一个组织有关质量方面的管理体系。	
		Quantitative Analysis	92.1215
		Chemical determination of the composition of mixtures or the constituents of a pure compound without regard to quantity.	

定量分析	92.1215	辐射通量	56.1304
化学测定合成物或纯化合物的成份，但不考虑其含量。			入射在表面上的能量的总和，用瓦特表示。
Quartz Fiber (Electrical Grade)	44.1994	Radiant Intensity	56.1305
Quartz yarn or fiber, which is to be used to develop the reinforcement for printed board applications.			The amount of power from a point source that is generated through a solid angle, measured in watts per steradian.
石英纤维（电子级）	44.1994	辐射强度	56.1305
用于增加印制板增强材料强度的石英纱或石英纤维。			通过多面角上的一个点光源所产生的动力，按瓦特/球面度计算。
Quasi-Interfacial Connection	22.1216	Radiation, Infrared	21.1998
See "Interfacial Connection."			Thermal radiation emitted in the infrared region of the electromagnetic spectrum.
准界面连接	22.1216	红外辐射	21.1998
见“面间连接， Interfacial Connection”。			电磁频谱中红外区内发射出的热辐射。
Quasi-Interfacial Plated-Through Hole	22.1201	Radiation, Long Wave, Infrared	21.1999
See "Nonfunctional Interfacial Connection."			Infrared energy that is radiated at a wavelength that is between 5 and 100 microns.
准界面镀覆孔	22.1201	长波红外线辐射	21.1999
见“非功能面间连接， Nonfunctional Interfacial Connection”。			在5微米至100微米之间的波长下辐射的红外能。
Quiet Zone (Bar Code)	70.1996	Radiation, Medium Wave Infrared	21.2000
In a bar code symbol, the area that contains no markings, immediately preceding the start character and following the stop character.			Infrared energy that is radiated at a wavelength that is between 2.5 and 5 microns.
空白区（条码）	70.1996	中波红外线辐射	21.2000
条形码符号中不包含标识的区域，其直接位于起始符之前并紧接在终止符之后。			在2.5微米至5微米之间的波长下辐射的红外能。
Quill	44.1202	Radiation, Near Infrared	21.2001
A bobbin onto which filling yarns are wound.			See "Radiation, Short Wave Infrared."
线轴	44.1202	近红外线辐射线	21.2001
缠绕纱线的主轴。			见“短波红外线辐射， Radiation, Short Wave Infrared”。
R			
Radial Lead Component	31.1997	Radiation, Re-emitted Infrared	21.2003
A component where the leads are located on the bottom, radially and parallel to the central axis.			That portion of thermal energy absorbed by a media that is in turn emitted in the infrared portion of the electromagnetic spectrum.
径向引线元器件	31.1997	红外再辐射	21.2003
引线位于元器件本体底部，并与中轴线平行呈放射状排列的元器件。			被介质吸收的一部分热能再通过电磁波频谱红外部分辐射出来。
Radiant Flux	56.1304	Radiation, Short Wave Infrared	21.2004
The amount of power that is incident on a surface, expressed in watts.			Infrared energy that is radiated at a wave length that is between 0.78 and 2.5 microns.
短波红外线辐射			
在0.78微米至2.5微米之间的波长下辐射的红外能。			21.2004

Radiator, Focused	56.1306	随机选择	91.1309
A reflector that is incorporated in the back of an emitter for the purpose of concentrating energy to produce a point or line of heat.		由于试验设计中具有不可知或不可控因素，因此试验时需任意选择试验对象，以便将试验结果之间的差异降到最低限度。	
聚焦辐射器	56.1306	Randomness	91.1310
安装在发射器后部的一种反射装置，目的是为了将能量聚集到一起以产生点热源或线热源。		A situation in which any individual event has the same mathematical probability of occurring as does all of the other events within the set of events.	
Radiator, Nonfocused	56.1307	随机性	91.1310
A diffusing reflector that is incorporated in the back of an emitter for the purpose of scattering energy over an area.		任何一项单独事件的发生具有与一个系列事件中的所有其它事件的发生相同数学概率的一种情况。	
非聚焦反射器	56.1307	Rebond	74.1312
安放在发射器后部的一种弥散反射装置，目的是为了将能量扩散到整个区域。		A termination made at, on top of, or adjacent to, the location of a prior bond.	
Radiometry	24.1308	再键合	74.1312
The measurement of radiation in the optical spectrum. (This includes infrared (IR), ultraviolet (UV), and visible.)		在前一个键合位置的顶部或相邻处实现的又一个端接点。	
辐射线测定	24.1308	Receptacle Connector	37.1313
对光谱辐射线的量度。(包括红外线、紫外线及可见光线。)		The fixed or stationary half of a two-piece connector pair that mates with a plug connector.	
Random Sample	91.1311	插座式连接器	37.1313
A set of individuals that is taken from a population in such a way that each possible individual in the population has an equal chance of being selected.		可与插入式连接器配接的两件式连接器中固定的连接器。	
随机样本	91.1311	Reciprocity Failure	91.1314
以使总数中的每一独立个体被选中的机会均等的方式从总数中任意选取的一组个体。		The deviation from the Reciprocity Law.	
Random-Effects Model	91.1497	互易失效	91.1314
A specific experimental treatment whereby a random sample is taken from a large population of treatments in such a manner that the conclusions reached can be extended to the entire population and the inferences are not restricted to the experimental levels.		与互易定律相偏离。	
随机效应模式	91.1497	Reciprocity Law	91.1498
一种特殊的试验处理方式，它从大量的处理总体中随机抽取样本，得出的处理结论可扩展至全体对象，且推论不局限于试验水平。		A general law that pertains to photo-chemical reactions that states the mass of photoproduct from such a reaction is determined simply by the total exposure involved.	
Randomization	91.1309	互易定律	91.1498
The random selection of experimental runs in order to minimize biases that are due to unknown or uncontrollable factors in an experimental design.		关于光化学反应的一个通用定律，即光化反应物的总量仅仅由总曝光量所决定。	
Rectangular Leads		Rectangular Leads	36.1764
		A lead form or leg shape whose cross section is rectangular in shape.	
矩形引线		矩形引线	36.1764
		截面为矩形的引线形式或引腿形状。	

Reduction Marks	22.1316	Reflection Coefficient	21.2005
A set of stylized patterns in the border area of an artwork between which the photographic-reduction dimension is defined.		The percentage of power (or voltage) reflected from a load that is attached to a circuit or transmission line.	
缩图标志	22.1316	反射系数	21.2005
在底片的边界区域内用来确定照相缩小尺寸的一组固定图形。		附加到电路或传输线的负载的反射功率（或电压）的百分比。	
Reed	44.1230	Reflectivity	21.2006
A thin comb made of pressed steel wires between which warp ends are drawn after passing through the needle eyes.		The percentage of incident infrared energy that reflects from the surface. (See "Transmissivity.")	
钢筘	44.1230	反射率	21.2006
由模压钢丝制成的薄形梳形装置，经纱在穿过针眼后抽过其间。		从表面反射回的入射红外能百分比。（又见“透射率，Transmissivity”。）	
Reference Dimension	26.1231	Reflow Soldering	75.1500
A dimension without a tolerance that is used only for informational purposes that does not govern inspection or other manufacturing operations.		The joining of surfaces that have been tinned and/or have solder between them, placing them together, heating them until the solder flows, and allowing the surface and the solder to cool in the joined position.	
参考尺寸	26.1231	再流焊接	75.1500
仅用于说明情况而不是用来指导检验或其它生产操作的无公差尺寸。		将已经上锡或其间已有焊料的表面放在一起，将其加热直到焊料流动，再使连接处的表面和焊料冷却，而形成的连接。	
Reference Edge	22.1232	Reflow Soldering (Nitrogen Process)	75.1933
The edge of a cable or conductor from which measurements are made.		A reflow soldering process, carried out in a nitrogen atmosphere, intended to retard oxidation of solder and board conductive surfaces and improve solder wetting.	
基准边	22.1232	再流焊接（氮气工艺）	75.1933
用作测量的电缆或导体边。		在氮气环境下进行的再流焊接工艺，目的在于阻止焊料和板导电表面的氧化并促进焊料的润湿。	
Reference Hole	22.1233	Reflow Spike	75.1235
See "Tooling Hole."		The portion of the reflow soldering process during which the temperature of the solder is raised to a value that is sufficient to cause the solder to melt.	
基准孔	22.1233	再流焊峰值	75.1235
见“定位孔，Tooling Hole”。		再流焊工艺中的一部分，在该过程中焊料的温度升至足以使焊料熔融的温度值。	
Reference Master	24.1234	Reflow Temperature	75.2007
Artwork that is free of defects.		The temperature range of a reflow soldering process during which the solder is in its liquidus phase.	
基准底图	24.1234	再流温度	75.2007
没有缺陷的照相底图。		再流焊接过程中使焊料保持液相状态时的温度范围。	
Reflection, Signal Propagation	21.1499		
The fraction of a propagating signal that is reflected back toward its source after the signal has encountered a discontinuity in the electrical impedance of the transmission line on which it is traveling.			
信号传播反射	21.1499		
传播信号由于在传输线上传送时遇到电气阻抗的骤变，又反射回信号源的一小部分传播信号。			

Regardless of Feature Size	22.1236	Reliability	90.1501
A geometric tolerance or datum reference that applies at any increment of size of a feature that is within its size tolerance.		The probability that a component, device, or assembly will function properly for a definite period of time under the influence of specific environmental and operational conditions.	
要素尺寸无关	22.1236	可靠性	90.1501
一个要素尺寸，在其几何公差或基准参考尺寸范围内，任意增量均适用。		指元器件、器件或组件在特定的环境及作业条件影响下，在规定的时间周期内进行正常运行的概率。	
Registered Production Master	24.1237	Re-melting Separation	75.2010
A production master that incorporates physical registration features.		The phenomenon in which solder on the previously soldered surface is re-melted by the heat being applied for soldering on the opposite side, causing separation of the solder and a component termination, or between the solder and a land (pad).	
带定位生产底版	24.1237	再熔融分离	75.2010
包含物理定位要素的生产底版。		当对已焊接表面的反面进行焊接时，由于所施加的热量使之前已焊接表面的焊料再次熔融，从而造成焊料与元器件引出端，或焊料与连接盘分离的现象。	
Registration	50.1240	Removable Contact	37.1242
The degree of conformity of the position of a pattern (or portion thereof), a hole, or other feature to its intended position on a product.		A type of connector contact that is not permanently retained within the connector body or insert.	
重合度	50.1240	可移动接触件	37.1242
产品上的图形（或部分图形）、孔或其它要素的实际位置与其指定位置一致性的程度。		非永久保留在连接器本体或嵌入物内的连接器接触件。	
Registration Mark	22.1315	Render True Color	24.1243
A stylized pattern (symbol) that is used as a reference point for registration.		The color aberrations of an optical system that have been sufficiently corrected so as to allow a magnification device to resolve the required details.	
重合标记	22.1315	呈现真色度	24.1243
用作重合基准点的固定图形（符号）。		已经充分校整的光学系统色度偏差，以使放大装置能够分辨所要求的细节。	
Regression Analysis	91.1241	Repair	77.1502
The use of statistics to investigate and model the relationships between parameters and results.		The act of restoring the functional capability of a defective article. In common usage, repair may restore the hardware to compliance with applicable drawing or specifications. In stringent [military] usage, rework is in compliance whereas repair restores functionality without being in compliance.	
回归分析	91.1241	维修	77.1502
用于研究和模拟参数与结果之间关系的统计方法。		使有缺陷产品功能恢复的行为。一般情况下维修可恢复硬件，使其符合所适用的图纸或技术规范。严格[军用]情况下，返工能够符合其要求，但维修只可恢复其功能，却不符合其要求。	
Relative Permittivity (ϵ_r)	21.2008		
The ratio of the permittivity of a material to that of free space.			
相对电容率 (ϵ_r)	21.2008		
一种材料的电容率与真空介质的电容率之比。			
Release Liner (Pressure Sensitive Tape)	75.2009		
A web or sheet of material covering the adhesive side of a pressure sensitive tape.			
释放隔离衬（压力敏感带）	75.2009		
覆盖压力敏感带粘合剂面的一层网状或片状材料。			

Repeat Set-Up Time	92.1244
The set-up time for a unit that is identical to one previously evaluated.	

重复设置时间	92.1244
使一个单元与之前评定的单元完全相同所需的设置时间。	

Repeatability (Accept/Reject) Decisions	91.1503
The percentage of features that show the same acceptance or rejection status on a minimum of three consecutive tests using identical operating modes and conditions in a statistically-significant random sampling of three units.	

重复性（接受/拒绝）判定	91.1503
在抽取三个单元的统计有效随机抽样中，使用相同的操作方式及条件，在至少三个连续测试中显示相同的接收或拒收状态的性能百分比。	

Residue	76.1245
Any visual or measurable form of process-related contamination.	

残留物	76.1245
任何直观的、或可检测的与工艺相关的污染物。	

Resin	40.1246
A natural or synthetic resinous material. (See also "Rosin" and "Synthetic Resin.")	

树脂	40.1246
天然或合成的树脂类材料。(又见“Rosin, 松香”和“Synthetic Resin, 合成树脂”。)	

Resin Flux	75.1247
A resin and small amounts of organic activators in an organic solvent.	

树脂助焊剂	75.1247
含有树脂和少量有机活性剂的有机溶剂。	

Resin Particle (Base Material)	44.1985
An inclusion that is normally amber to brown and slightly translucent, composed of a particle of nonindigenous and previously dried or cured resin that may appear similar to "treater dirt" which tends to be less translucent, darker and chunkier.	

树脂颗粒（基材）	44.1985
混入树脂中的已经干燥或凝固的树脂颗粒，通常呈琥珀色至褐色和半透明状，看上去与浸润污物相似，只是更暗、更小，也不那么透明。	

Resin Recession	60.1504
The presence of voids between the plating of a plated-through hole and the wall of the hole as seen in microsections of plated-through holes that have been exposed to high temperatures. (See Figure R-1.)	

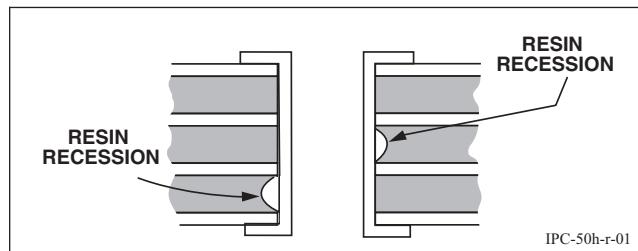
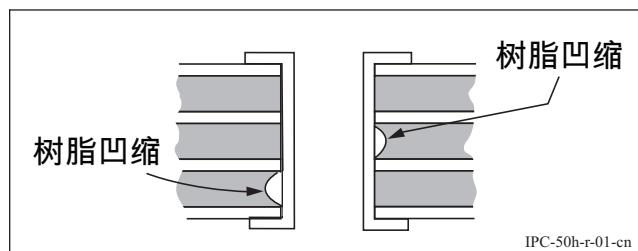


Figure R-1 Resin Recession

树脂凹缩	60.1504
镀覆孔镀层与孔壁之间存在的空洞，可从经受高温后的镀覆孔显微切片中观察到这种现象。(见图R-1。)	



图R-1 树脂凹缩

Resin Smear	51.1506
Base material resin that covers the exposed edge of conductive material in the wall of a drilled hole. (This resin transfer is usually caused by the drilling operation.)	

树脂玷污	51.1506
覆盖在钻孔孔壁裸露的导电材料表面的基材树脂。(这种树脂转移通常是由钻孔操作造成的。)	

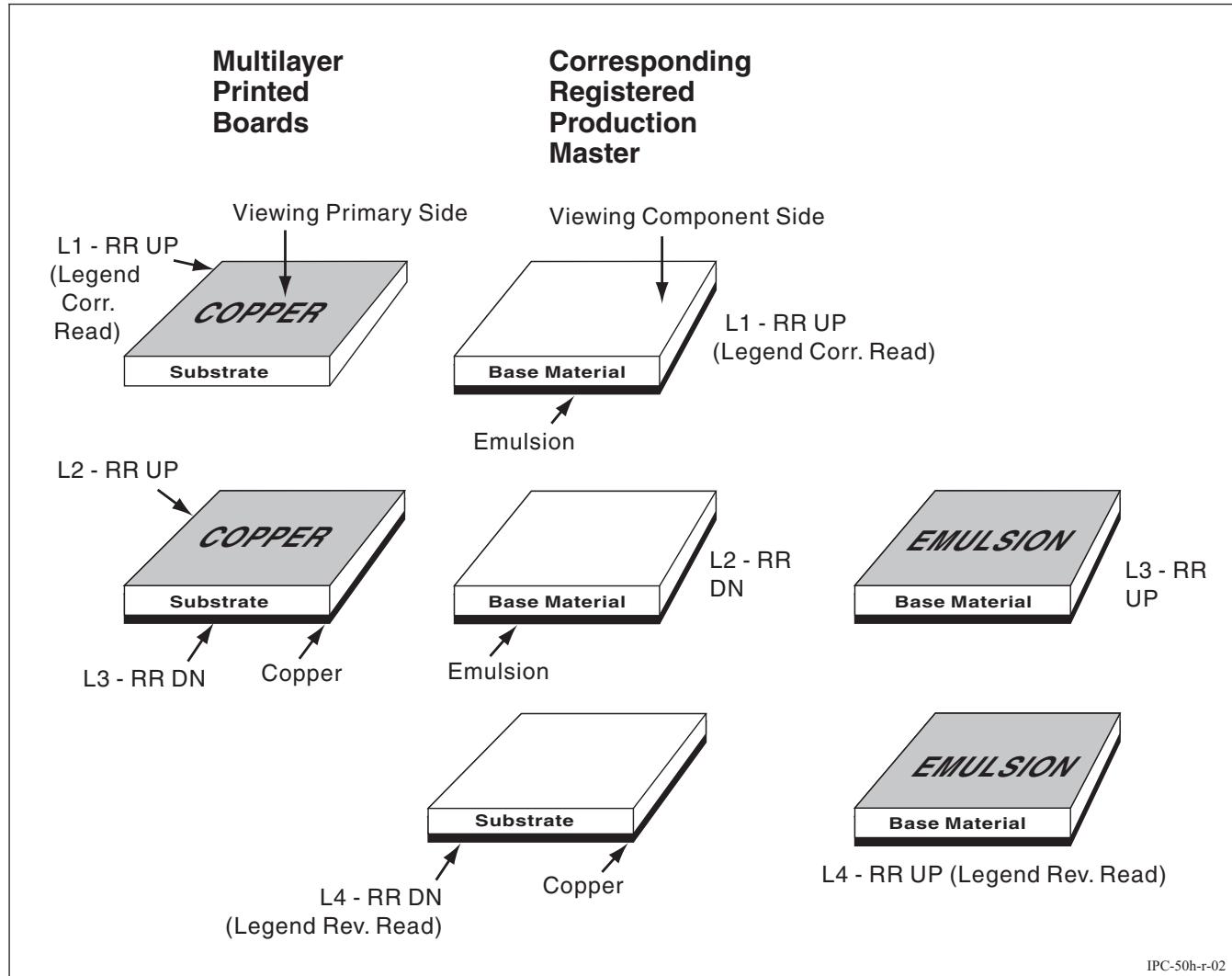
Resin-Rich Area	41.1505
The location in a printed board of a significant thickness of unreinforced surface-layer resin that is of the same composition as the resin within the base material.	

富树脂区	41.1505
印制板中有显著厚度而无增强材料的表面树脂层区域，该区域的树脂成份与基材内部的树脂相同。	

Resin-Starved Area	41.1507
The location in a printed board that does not have a sufficient amount of resin to completely wet out the reinforcing material. (Evidence of this condition is often in the form of low-gloss dry spots or exposed fibers.)	

缺树脂区	41.1507	Resistor Drift	92.1250
印制板中因树脂含量不足，未能完全浸润增强材料的某些区域。(这种状况通常表现为无光泽的干裂斑点或露纤维)。		The change in resistance of a resistor caused by aging, usually expressed as a percent change per 1,000 hours.	
Resist (Mask)	52.1508	电阻漂移	92.1250
See "Mask."		由于电阻老化造成的阻抗变化，通常用每1000个小时的变动百分率来表示。	
阻焊剂（膜）	52.1508	Resolving Power	24.1509
见“掩膜， Mask”。		The ability of a photographic system to maintain the separate identity of parallel lines and spaces in a developed image when their relative displacement is small.	
Resistance	21.1805	解像力	24.1509
The restriction to the flow of electrons, determined by Ohms law; the quotient of DC voltage, applied to the extremes of a conductor or insulator, and the current flowing through it.		图像显影中平行线条及其间隔相对位移较小时，照相系统保持其分离、可识别的能力。	
电阻	21.1805	Response Variable	91.1251
由欧姆定律确定的对电子流动的限制，等于施加在导体或绝缘体两端的直流电压除以通过导体的或绝缘体的电流的商。		The dependent variable being studied.	
Resistance Soldering	75.1248	响应变量	91.1251
Soldering by a combination of pressure and heat generated by passing a high current through two mechanically-joined conductors.		分析中的应变量。	
电阻钎焊	75.1248	Return Loss	21.2014
通过流经两个机械连接导体的高电流所产生的热及施加压力而进行的钎焊。		Level of the reflected signal which is a result of a mismatch between a load and a source. It is usually expressed as the ratio of reflected power to incident power in dB units.	
Resistance to Solvents	76.2012	回波损耗	21.2014
The ability of the base laminate and other materials to resist damage to the material when exposed to solvents.		当负载与信号源不匹配时所产生的反射信号的强弱。通常以反射能量与入射能量的比值来表示，以dB为单位。	
耐溶剂性	76.2012	Reversal Development	24.1252
基材层压板及其它材料暴露于溶剂中时，抵抗材料被损坏的能力。		The reversing of the tone of an image on a photographic emulsion from that which can be accomplished with conventional developing.	
Resistance Welding	75.1249	反转显影	24.1252
Welding by a combination of pressure and heat generated by passing a high current through two mechanically-joined conductors.		为感光乳剂上的图像直接翻制成正像而采取的显影。	
电阻熔焊	75.1249	Reverse Current Cleaning	76.1253
通过流经两个机械连接导体的高电流所产生的热及施加压力而进行的熔焊。		See "Anodic Cleaning."	
Resistive Clad Laminate	45.2013	反向电流清洗	76.1253
A clad laminate containing resistive material that is used in making planar resistors.		见“阳极清洗， Anodic Cleaning”。	
电阻覆金属箔层压板	45.2013	Reverse Etch back	54.2015
含有用于制作平面电阻的电阻材料的覆金属箔层压板。		See "Negative Etch back."	
反向凹蚀		反向凹蚀	54.2015
		见“负凹蚀， Negative Etchback”。	

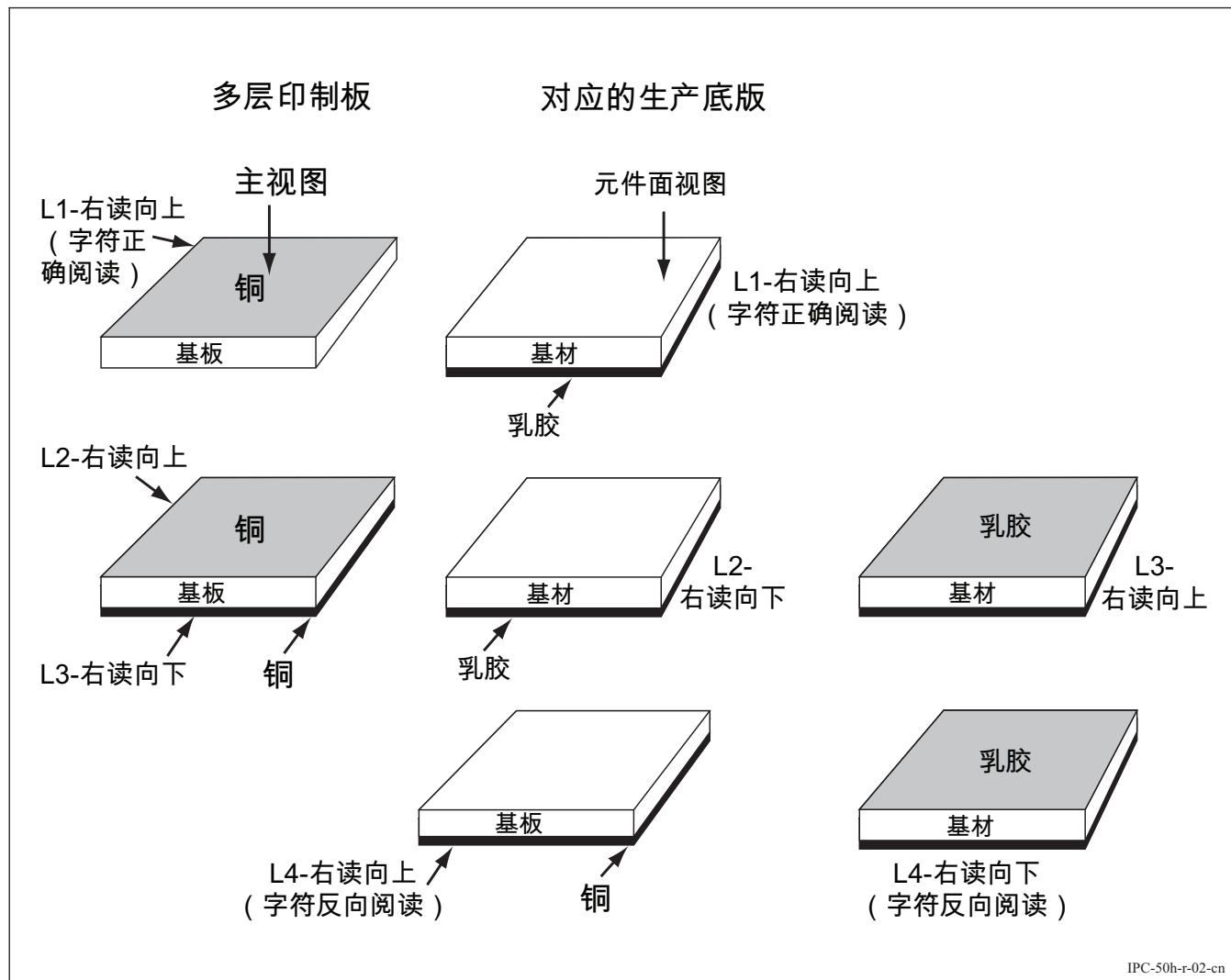
Reverse-Treated Core	41.2016	Ribbon Cable	37.1255
A core (inner layer) whereby the copper foil is laminated to the base material with the drum side down.		A flat cable with round conductors.	
反向处理芯板	41.2016	带状电缆	37.1255
铜箔鼓面朝下层压到基材上的芯板（内层）。		导体为圆形的扁平电缆。	
Reverse-Treated Foil (RTF)	45.2017	Ribbon Interconnect	37.1256
Metal foil on which the drum or smooth side has been chemically treated to make the surface rougher for increased adhesion to bonded surfaces		A flat narrow ribbon of metal used to make interconnections to lands, lead frames, etc.	
反向处理金属箔 (RTF)	45.2017	带状互连	37.1256
对金属箔的鼓面或光滑面进行化学处理，使其表面更粗糙，增加与所粘接表面的粘附力。		用于互连连接盘、引线框架等的扁平窄金属带。	
Reverse Image	52.1254	Right Reading	24.1257
The pattern of resist on a printed board that is used to allow for the exposure of conductive areas for subsequent plating.		A photo tool pattern-orientation that is the same as the artwork master when it is viewed from the primary side of a product. (See Figure M-4 and Figure R-2.)	
负像	52.1254	右读	24.1257
印刷板上用来使导电区域暴露出来进行后续电镀的抗蚀剂图形。		从产品的正面观察时，与照相原版方向相同的底片图形方向。（见图M-4和R-2。）	
Reversion	96.1510	Right Reading Down	24.1512
A chemical reaction in which a polymerized material partially or completely degenerates to a lower polymeric state or to the original monomer. (This is usually accompanied by significant changes in physical and mechanical properties.)		An orientation of a phototool in which the pattern is right and the emulsion is on the surface that is away from the viewing surface. (See Figure M-4 and Figure R-2.)	
裂解	96.1510	右读朝下	24.1512
聚合后的材料部分地或完全地退化到更低的聚合态或原始单体状态的化学反应。（通常伴随有明显的物理和机械特性变化。）		图形为右读、而乳胶面是背向观察面的底片方向。（见图M-4和R-2。）	
Rework	77.1511	Right Reading Up	24.1513
The act of reprocessing noncomplying articles, through the use of original or alternate equivalent processing, in a manner that assures compliance of the article with applicable drawings or specifications.		An orientation of a phototool in which the pattern is right reading and the emulsion is on the surface that is toward the viewing surface. (See Figure M-4 and Figure R-2.)	
返工	77.1511	右读朝上	24.1513
通过使用原工艺或替代的等效工艺，确保不合格产品符合适用图纸或技术规范的再加工。		图形为右读、而乳胶面是朝向观察面的底片方向。（见图M-4和R-2。）	
Rheology	40.2018	Rigid Double-Sided Printed Board	61.1577
The study of the change in form and flow of matter, generally characterized by elasticity, viscosity, and plasticity.		Double-sided printed board, either printed circuit or printed wiring, using rigid base materials only.	
流变学	40.2018	刚性双面印制板	61.1577
对具有弹性、粘性和塑性特点物质的流动及形式变化的研究。		采用刚性基材制作的双面印制电路板或印制线路板。	
		Rigid Multilayer Printed Board	61.1578
		Multilayer printed board, either printed circuit or printed wiring, using rigid base materials only.	



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Figure R-2 Printed Board Viewing Orientations**Notes:**

1. A precise definition of image tone and orientation necessitates that the orientation of the pattern and the legend be separately identified. For example: Layer 1-Pos RR DN (Legend Corr. Read) or Layer 2-Pos RR UP (Legend Rev. Read) (There is no such thing as wrong reading.)
2. By definition, all layer patterns are viewed from the same direction. (This view defines RR for the pattern appearance of all layers; this is not the same as viewing the final board copper head on.)
3. Legend is usually correct reading when viewing the copper; therefore, on occasion alphanumerics must be reversed reading when the pattern is right reading by definition.
4. Production master emulsion must be presented against the board copper in the stack up. Therefore, production master emulsion orientation is opposite to individual copper layer orientation, i.e., if copper is RR UP by definition, corresponding production master must be RR DN.
5. When specifying artwork tone and orientation, remember the board layup and the purpose of the artwork, i.e., file copy, artwork master, or production master, etc.
6. In manual designs the artwork is usually prepared at an enlarged scale with tapes and other drafting aids. The artwork master is produced from the artwork by photographic reduction.
7. In semiautomated designs, there may be no artwork by definition. Typically, an enlarged color-coded printed wiring layout on a gridded format is prepared for subsequent digitizing and photoplotting. This procedure may yield intermediate phototools which can be photographically processed into an artwork master or it may directly yield an artwork master, working master, or production master.
8. In fully automated systems, there is usually no artwork or printed wiring layout prepared. A computerized procedure from a form of the electrical schematic by total computerization or a combination of computer and interactive design procedures is prepared. This procedure may yield intermediate phototools or the artwork master, working master, or production master directly.



图R-2 印制板视图方向

注：

1. 图像品质和方向的精确确定需要分别规定图形和字符的方向。例如：第一层-右读向下（字符正确阅读）或第二层-右读向上（字符反向阅读）（错误阅读时不会出现这种情况）。
2. 定右读方向后，从同一个方向观察识别所有层次的图形。（该图确定了所有图层图形外表的右读，但它与最终铜面图形的迎面识别读法不同）。
3. 从铜面看时字符通常都可被正确阅读，因此根据规定右读图形时，有时必须反向阅读字符和数字。
4. 层中生产底版乳胶必须紧贴板的铜面。因此生产底版的乳胶方向和对应的铜面方向相对，比如规定铜层为右读向上时，对应的生产底版乳胶的方向必须是右读向下。
5. 定了照相底图方向和品质时，切记板的叠层和照相底图的用途，如文件拷贝、照相原版或生产底版等。
6. 手动设计时，会采用卷尺等其他草图设计工具对尺寸进行预放来准备照相底图。照相原版是由照相缩版照相底图得到的。
7. 半自动设计时，一般没有规定的照相底图。典型的，以网格模式上布设已扩大尺寸的彩色编码的印制线路为后期的数字化和绘图作准备。这个过程可产生中间底版，而该底版可通过照相方式加工成为照相原版、或直接产生照相原版、工作原版和生产底版。
8. 在全自动系统中，一般不需要准备照相底图和进行印制线路布线。通过完全由计算机处理的电气原理图方式或计算机和交互设计程序结合的方式形成计算机化的过程。该过程可直接产生中间底版、或照相原版、工作原版，或生产底版。

刚性多层印制板	61.1578	标识图	26.1260
只采用刚性基材制作的多层印制电路板或多层印制线路板。		印制板上示意元器件和电路的非导电图形，有助于成品组件的维修及返修。	
Rigid Printed Board	61.1571	Rubber	53.1261
A printed board using rigid base materials only.		See “Plating Thief.”	
刚性印制板	61.1571	分流	53.1261
只采用刚性基材制作的印制板。		见“分流阴极，Plating Thief”。	
Rigid Single-Sided Printed Board	61.1576	Roll-to-Roll Process	42.2019
Single-sided printed board, either printed circuit or printed wiring, using rigid base materials only.		A method of manufacturing flexible printed circuits using a continuous roll process, rather than individual panels.	
刚性单面印制板	61.1576	成卷式生产工艺	42.2019
只采用刚性基材制作的单面印制电路板或印制线路板。		采用连续成卷工艺，而不是单个在制板生产挠性线路板的方法。	
Rigid-Flex Double-Sided Printed Board	63.1584	Rosin	46.1514
Double-sided printed board, either printed circuit or printed wiring, using combinations of rigid and flexible base materials.		A hard, natural resin, consisting of abietic and primaric acids and their isomers, some fatty acids and terpene hydrocarbons, that is extracted from pine trees and subsequently refined.	
刚挠性双面印制板	63.1584	松香	46.1514
采用刚性和挠性基材制作的双面印制电路板或印制线路板。		从松树中提取并精练的一种硬质天然树脂，由松脂酸和伯酸以及它们的同分异构体、某些脂肪酸和萜烃组成。	
Rigid-Flex Printed Board	63.1258	Rosin Flux	46.1262
A printed board with both rigid and flexible base materials.		Rosin in an organic solvent or rosin as a paste with activators.	
刚挠性印制板	63.1258	松香助焊剂	46.1262
采用刚性与挠性两种基材制作的印制板。		有机溶剂中的松香或具有活性剂的膏状松香。	
Rise Time (Transition Duration)	21.1259	Rosin Solder Connection	75.1515
The time required for a logic-signal voltage to switch from 10 to 90 percent of the difference between logic states.		A solder connection that has practically the same appearance as does a cold solder connection, but that also shows evidence of entrapped rosin separating the surfaces to be joined. (See also “Cold Solder Connection.”)	
上升时间（过渡时间）	21.1259	过量松香焊接连接	75.1515
逻辑状态转换时，逻辑信号电压从状态差数的10%上升（转换）到90%所需要的时间。		从外观上看与冷焊接连接几乎完全相同，有残留的松香分离待焊接表面的迹象。（又见“冷焊接连接，Cold Solder Connection”。）	
Risk Management Factor (RMF)	94.1777	Rotational Error	25.1263
The maximum tolerable percentage of possible defects within a lot (group) of units, based on approximately 95% confidence level.		The angular misalignment of a functional pattern with respect to the X and Y axes.	
风险管理因子	94.1777	旋转误差	25.1263
在约95%的置信度的基础上，一批产品可能存在缺陷的最大容许百分比。		功能图形相对于X和Y轴的角偏差。	
Roadmap	26.1260		
A printed nonconductive pattern that delineates the components and circuitry on a printed board in order to aid in servicing and repairing the final assembly.			

Router (CAD)	22.1264	链	91.1268
A computer program that automatically determines paths between points to be interconnected.		SPC控制图中连续上升或下降、或连续位于中心线上方或下方的一系列点。	
布线器 (CAD)	22.1264	Run Chart	91.1269
自动确定互连点间路径的计算机程序。		A graphic representation of plotted values of some variable gathered from a process characteristic with respect to a central line that can be analyzed by run.	
Router Bit	51.2020	链图	91.1269
A straight or shaped rotary cutting tool used in a power router to cut, trim or shape materials by rotary action.		根据某一工艺特性及其中心线，收集的一些变量的绘图值而绘制的图，可通过链，对其进行分析。	
铣刀	51.2020	Run Time	92.1271
直形或异形的旋转切削工具，用于铣切工件的端面、孔、槽等。		The time elapsed while a unit is in an inspection or testing machine.	
Routing	54.2021	运行时间	92.1271
A mechanical method that removes a portion of the material outlining a printed board, using a cutting bit, in order to facilitate ease of breakout (removal) from the manufacturing/assembly panel.		在检验或测试设备上运行一个单位需要的时间。	
铣切	54.2021	Runout	24.1270
为了便于制造/组装在制板的分割，用铣刀去除印制板部分材料，显现出印制板轮廓的一种方法。		The sum of the cumulative-pitch error across a number of functional patterns on a step-and-repeat phototool.	
Routing Mark	25.1265	累积误差	24.1270
An artwork feature that is used to define the periphery of a printed board.		分步重复曝光底片上多个功能图形的累积间距误差之和。	
铣切标记	25.1265	Runtime System	11.1272
用来确定印制板外形的照相底图要素。		The collection of software programs required to perform the actual testing and diagnosis of a unit under test.	
Roving	44.1266	实时系统	11.1272
A collection of parallel strands of filaments assembled with or without an intentional twist.		完成待测试单元实际测试和诊断所需的软件程序的集合。	
粗纱	44.1266	S	
由平行细丝加捻或不加捻而形成的一股纱。			
Rubber Banding	22.1267	Sacrificial Protection	45.1274
A technique for displaying a straight line with one endpoint fixed and the other end following the commands of a manual data input device.		The preferential corrosion of a metal coating in order to protect the substrate metal.	
橡皮带式生成线	22.1267	牺牲性保护	45.1274
呈现直线的技术，直线的一端固定，而另一端根据人工数据输入装置的指令而确定。		为了保护基板金属，对金属覆盖层进行的预先腐蚀。	
Run	91.1268	Sacrificial-Foil Laminate	31.1273
A consecutive number of points that consistently increase or decrease, or that are consistently above or below the central line of a SPC control chart.		A base material with a treated-metal foil which is subsequently removed, for the purpose of impressing a microporous topography on the surface of the base material.	
		牺牲箔层压板	31.1273
		具有经处理的金属箔的基材，后续工序中再将金属箔去除，目的是使基材表面具有微孔结构。	

Sagging	74.1275	扫描空载时间	92.1278
See "Wire Sag."		扫描过程中未从被评定单元收集到数据的时间。	
下垂	74.1275	Scanner, Test	92.0693
见“金属线下垂, Wire Sag”。		A program controlled relay matrix used for connecting any unit-under-test circuit mode to the analog instrument bus.	
Sample Qualification	90.2022	测试扫描仪	92.0693
Producing a product with a given set of parameters intended for evaluation as a sample of manufacturing capability.		控制用于连接任何测试中单元电路模式与模拟仪器总线的继电器矩阵程序。	
样品鉴定	90.2022	Scanning Acoustical Microscopy (SAM)	92.2078
用预先给定的一组参数生产一个产品, 将其作为体现制造能力的样品进行评估。		A method of nondestructive inspection used for identifying buried interfaces of dissimilar materials. Also referred to as C-SAM.	
Saponifier	76.1276	声学扫描显微镜 (SAM)	92.2078
An aqueous organic- or inorganic-base solution with additives that promote the removal of rosin and/or water-soluble flux.		用于鉴定不同材料内界面的无损检测方法。也称为C-SAM。	
皂化剂	76.1276	Scanning Electron Microscope (SEM)	92.2023
一种含有添加剂的有机或无机水溶性溶液, 可加速去除松香和/或水溶性助焊剂。		A microscope that makes use of a scanning beam of electrons to display details smaller than 100 angstroms in size (surface only).	
Satin Weave	44.1516	电子扫描显微镜	92.2023
A fabric configuration where the surface is almost entirely made up of warp filling adjacent yarns, thereby producing a smooth surface. (The intersection points do not fall in a straight diagonal, or twill, but in a patterned formation.)		利用电子扫描束来显示尺寸(只限表面)小于100埃的零件的显微镜。	
缎纹组织	44.1516	Scatter Diagram	94.0991
几乎完全由经线填充相邻的纱线构成表面的织物结构, 因而可形成光滑的表面。(组织点不会落在对角直线或斜纹组织上, 而是以一定的图形形式排列。)		A graph that depicts the relationships between an independent variable and a dependent response variable.	
Scalar Processing	11.1277	散布图	94.0991
The use of a computer architecture in which single operations are performed on data elements.		描述自变量和应变量之间相互关系的图。	
标量处理	11.1277	Scavenged Air	14.2024
可在数据元素上完成单个操作的计算机结构的使用。		Vapors and aerosols removed from a processing area to help ensure that there is no process fluid in the workplace.	
Scan Rate	92.0755	净化空气	14.2024
The rate at which a machine scans the surface of the unit being evaluated, expressed in surface area per unit of time or time per unit area of surface.		从加工区域去除蒸汽和悬浮物, 以帮助确保工作场所内无制程液体。	
扫描速率	92.0755	Schematic Diagram	26.1107
机器扫描待评定单元表面的速率, 用单位时间内扫描的表面积或扫描单位表面积需要的时间来表示。		A drawing that shows, by means of graphic symbols, the electrical connections, components and functions of a specific circuit arrangement.	
Scan-Dead Time	92.1278	原理图	26.1107
The time during a scanning process when data is not being collected from the unit being evaluated.		借助图形符号表示具体电路布局的电气连接、元器件和功能的图。	

Scoop-Proof Connectors	37.1239	底座面	30.2026
Connectors that incorporate features that prevent contact damage during mating and unmating.		元器件放置在其上的表面。	
防划损连接器	37.1239	Second Bond	74.1283
具有在插拔过程中防止接触件受损功能的连接器。		The second termination in a sequence of bonds made to form a conductive path. (See also "First Bond.")	
Screen Printing	52.1204	第二键合	74.1283
The transferring of an image to a surface by forcing a suitable media with a squeegee through an imaged-screen mesh.		形成导电通路的一系列键合中的第二个端接点。(又见“第一键合，First Bond”。)	
网印	52.1204	Secondary Relief	51.1282
利用刮刀施加压力将适宜的介质通过有图形的网孔，将图形转移到表面。		The clearance angle that is behind the primary relief of a drill point.	
Scribe Coat	24.1205	第二后角	51.1282
A stable base material, such as glass or film, with an opaque coating.		钻尖的第一面角后面的余隙角。	
划线涂层	24.1205	Secondary Side	22.1517
具有不透明涂层的稳定基材，如玻璃或胶片。		That side of a packaging and interconnecting structure that is opposite the primary side. (It is the same as the "solder side" on through-hole mounting technology.)	
Scribing	24.1279	辅面	22.1517
The cutting of the opaque coating, but not the base material, on a scribe-coat material.		与主面相对的封装互连结构面。(与通孔安装技术的“焊接面，solder side”相同。)	
刻线	24.1279	Section Beam	44.1284
在划线涂层材料上切割不透明涂层，但不切割基材。		A flanged cylinder onto which yarn is drawn and accumulated from the yarn bobbins or packages.	
Scrubbing	74.1280	接线轴	44.1284
The rubbing of the lead wire and bonding land in order to break up oxide layers and to improve bondability.		纱线从其上拉伸并从纱线线轴或线包处聚集的带突缘的辊子。	
磨刷	74.1280	Sectional Specification (SS)	26.1783
为了去除氧化层和提高键合性对引线和键合连接盘进行的研磨。		A document that describes the specific requirements pertaining to a portion of a set, family, or group of products, materials or services.	
Scum	52.2025	分规范 (SS)	26.1783
A resist residue remaining on the substrate's surface following development.		描述关于一套、一系列或一组产品、材料或服务的一部分具体要求的文件。	
残渣	52.2025	Seed Layer	53.1286
显影后残留在基板表面的抗蚀残留物。		See "Activating Layer."	
Search Height	74.1281	强化层	53.1286
The height of a bonding tool above the bonding area prior to it being lowered to make the termination.		见“活化层，Activating Layer”。	
搜索高度	74.1281	Seeding	53.1285
键合工具被降低进行端接之前高出键合区的高度。		See "Activating."	
Seating Plane	30.2026		
The surface on which a component rests.			

强化	53.1285	Semiconductor	30.1289
见“活化， Activating”。		A solid material, such as silicon, that has a resistivity that is midway between that of a conductor and of a resistor.	
Self Declaration	94.2027	半导体	30.1289
The manufacturer's view of its products and process capabilities in order to meet the customer's requirements, the requirements of a standard, and/or the applicable associated specification sheet(s).		电阻率介于导体和绝缘体之间的一种固体材料，如硅。	
自我声明	94.2027	Semiconductor Carrier	74.1290
制造厂商为了表明满足客户的要求、标准要求和或所适用的规范细则而对其产品和过程能力的观点。		A package for semiconductor die.	
Self Test	92.1287	半导体载体	74.1290
The ability of an analyzer to appraise itself prior to performing a test procedure.		半导体芯片的封装。	
自检测试	92.1287	Sensitivity Control	91.1519
分析仪器在执行测试程序之前对自身进行评定的能力。		The provisions that allow a machine to be set to acceptance and rejection thresholds that correspond to the end-use requirements for the units being evaluated.	
Self-Alignment Effect	73.2028	灵敏度控制	91.1519
An effect that pulls an SMD to the center of the land by the surface tension of the solder during reflow soldering.		允许设定机器的验收和拒收阈值的措施，该阈值符合被评定单元的终端使用要求。	
自对中效应	73.2028	Sensitizing	53.1291
在再流焊接过程中通过焊料表面张力将SMD拉至焊盘中心的一种效应。		See “Activating.”	
Selvage	44.1288	敏化	53.1291
The edge of the fabric where the body of the fabric ends as defined by the last warp yarn.		见“活化， Activating”。	
织边	44.1288	Separable Component Part	30.1520
由最后一股经线确定的处于织物主体末端的织物边缘。		A replaceable component part with a body that is not chemically bonded, excluding protective coatings, solder, and potting compounds, to the base material.	
Semi-Additive Process	53.1518	可分离元器件部件	30.1520
An additive process wherein the entire thickness of electrically-isolated conductors is obtained by the combined use of electroless metal deposition and electroplating, etching, or both. (See also “Fully-Additive Process.”)		主体与基材不是以化学方法连接在一起的可更换的元器件部分，不包括保护涂层、焊料和灌封化合物。	
半加成法工艺	53.1518	Sequential Lamination	61.1594
电绝缘导体的整个厚度是结合化学沉积金属和电镀或蚀刻，或与电镀及蚀刻并用形成的一种加成法工艺。(又见“全加成法工艺， Fully-Additive Process”。)		The process of manufacturing multilayer printed boards in which multiple double-sided printed boards with interconnecting holes between conductive patterns on both sides are laminated or combined, after which additional layers (usually single-sided) are attached to the partially completed board stackup.	
Semi-Rigid Cable	37.2029	顺序层压	61.1594
A coaxial cable that has a solid outer conductor.		制造多层印制板的一种工艺。先将双面具有导电图形、内部互连过孔的多块双面印制板层压或组合在一起，然后在半成品叠层上再粘附另外的附加层（通常是单面）。	
半刚性电缆	37.2029		
具有实心外导体的一种同轴电缆。			

Sequentially-Laminated Multilayer**Printed Board****61.1521**

A multilayer printed board that is formed by laminating together through-hole plated double-sided or multilayer boards. (Thus, some of its conductive layers are interconnected with blind or buried vias.)

顺序层压多层印制板**61.1521**

将镀覆通孔双面板或多层板层压在一起形成的多层印制板。(因此，它的某些导电层是通过盲孔或埋孔实现互连。)

Serial Number**16.2175**

A consecutive identifier of an individual unit of identical units.

序列号**16.2175**

相同部件中单个部件的连续标识符。

Serpentine Cut**77.1293**

A trimming cut in a film component in the shape of a wavy (serpentine) pattern.

螺旋形切割**77.1293**

膜元器件内波纹（蛇形）形状的修整切割。

Service Temperature (Flexible Circuits)**42.2137**

The maximum, continuous temperature exposure that a flexible printed wiring material may withstand without degradation beyond 50% of both initial peel strength and dielectric breakdown for a 100,000 hour lifetime.

工作温度（挠性电路）**42.2137**

在100000小时寿命期内，挠性印制线路材料原始剪切强度和介质耐电压下降不超过50%的最大连续工作温度。

Set-Up Time**92.1522**

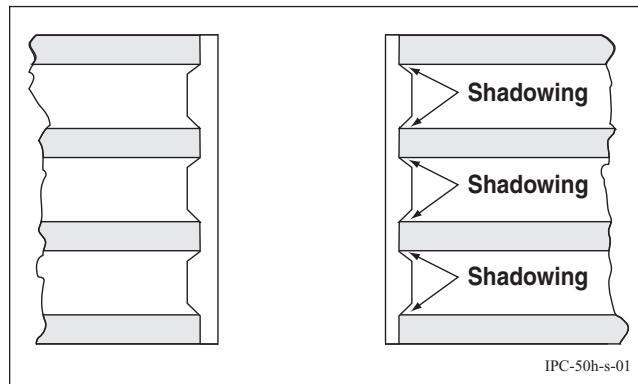
The time required to change hardware and software, to set-up necessary windows, and to run calibration and verification tests in order to ensure that a system is ready for operation.

设置时间**92.1522**

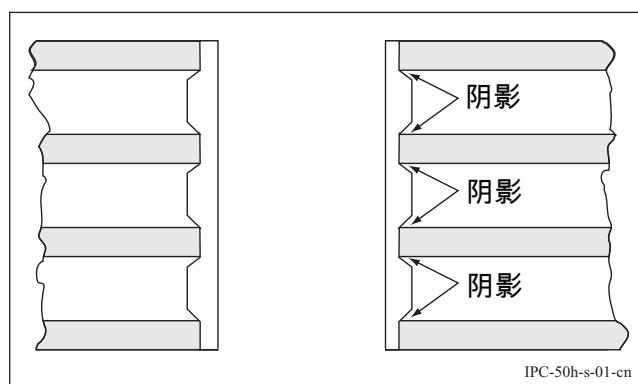
为确保系统准备好运行而更改硬件或者软件、设置必要的窗口、运行校正和验证测试所需要的时间。

Shadowing, Etchback**54.1294**

A condition that occurs during an etchback process in which the dielectric material immediately next to the foil is not removed completely. (See Figure S-1.) (This can occur even though an acceptable amount of etchback may have been achieved elsewhere.)

**Figure S-1 Shadowing****凹蚀阴影****54.1294**

发生在凹蚀过程中的一种状况，即紧靠金属箔的介质材料没有被完全除去。(即使其它地方的凹蚀量是可接受的，这种状况也会发生。)(见图S-1。)

**图S-1 阴影****Shadowless Illumination****24.1523**

The illumination of the area of interest by the light source of a magnifying device so that no shadows fall on the area of interest from objects in the field of view that are not of prime interest.

无影照明**24.1523**

由放大装置的光源照射物体，使区域内的主要观察对象上无非主要观察对象的阴影。

Shank**51.1295**

The cylindrical part of a drill that is held in the spindle of a drilling machine.

钻柄**51.1295**

夹持在钻孔机器主轴内的钻头圆柱部分。

Shank Diameter**51.1297**

The actual size of a drill shank.

钻柄直径**51.1297**

钻柄的实际尺寸。

Shank-to-Drill Body Concentricity	51.1296	Shelf Life	90.1526
The total variation of the location of the outside diameter of a rotating drill shank.		The length of time a material, substance, or product can be stored, under specific environmental conditions, while it meets all applicable specification requirements and remains suitable for its intended use.	
钻柄对钻体同心度	51.1296	保存期限	90.1526
旋转的钻柄外径位置相对于钻体的总变差。		材料、物质、或者产品在特定环境条件下，能满足所有适用的技术规范要求，并能有效使用的储存时间长度。	
Shear Strength	92.1298	Shield	21.1300
The force required to shear apart adhesive-bonded (and cured) materials and/or components. (See also "Lap Shear Strength" and "Torsional Strength.")		The material around a conductor or group of conductors that limits electromagnetic and/or electrostatic interference.	
剪切强度	92.1298	屏蔽层	21.1300
剪切分离粘合剂连接(并固化)的材料和/或元器件所需的力量。(又见“搭接剪切强度，Lap Shear Strength”和抗扭强度，Torsional Strength”。)		在导体或者一组导体周围能够限制电磁干扰和/或静电干扰的材料。	
Shear Test	92.1765	Shielding, Electronic	21.1527
The maximum stress a material can withstand in shear; the value of the force achieved when shearing stress is applied to a solder joint or wire bond to determine the breaking load.		A physical barrier, usually electrically conductive, that reduces the interaction of electric or magnetic fields upon devices, circuits, or portions of circuits.	
剪切测试	92.1765	电子屏蔽层	21.1527
材料在剪切过程中能承受的最大应力；在焊点或金属线键合处施加剪切应力以确定负载断裂时所达到的力的值。		可减轻电场或磁场对器件、电路、或部分电路的交互影响的物理阻挡层，通常是导电的。	
Sheet Capacitance	92.1524	Short, Electrical	92.1301
The electrical capacitance of a material as measured from one electrode to another, expressed in a unit of capacitance (e.g., farads or microfarads) per unit area.		A fault that connects two or more points that are normally electrically separated.	
片电容	92.1524	电气短路	92.1301
从一个电极到另一个电极测得的材料的电容，以单位面积上的电容量(如法拉或微法拉)来表示。		使正常时为电气隔离的两个或多个点形成连接的故障。	
Sheet Resistance	92.1525	Short-Term Capability	91.1302
The electrical resistance of a planar film of a resistive material with uniform thickness as measured across opposite sides of a unit square pattern, expressed in ohms per square.		The capability of a process that exhibits statistical control over a brief period of time.	
片电阻	92.1525	短期能力	91.1302
具有均匀厚度的平面薄膜电阻材料的电气阻抗，通过测量一个单位面积图形的对边而得，用每单位面积的欧姆表示。		过程在较短时间周期内呈现出的统计控制的能力。	
Sheet-Metal Contact	37.1299	Shoulder Angle	51.0929
A type of connector contact that consists of flat spring metal that has been formed by either stamping or bending. (See also "Machined Contact".)		The angle of the blended transition from the drill shank diameter to the drill body diameter.	
金属片接触件	37.1299	肩角	51.0929
通过冲压或弯曲成型的扁平弹簧金属组成的连接器接触件。(又见“机制接头，Machined Contact”。)		从钻柄直径到钻体直径交叉过渡的角度。	
Shrinkage Cavity	97.2031		
		A cavity or crack occurring around the surface of a soldered area after solidification of the solder joint that does not penetrate into the inside of the soldered area.	

缩孔	97.2031	信号层	22.0936
焊点固化后在焊接区表面形成的空穴或裂纹，这种裂纹不会延伸至焊接区内部。		传输电气信号的导体层。(又见“接地层，Ground Plane”和“电压层，Voltage Plane”。)	
Shrink SOP (SSOP)	33.2030	Signal-to-Noise Ratio (Process Control)	91.0933
A family of component packages with four sizes, each having the ability to provide lead pitches between 0.625 mm [0.0025 in] and 0.3 mm [0.012 in].		A response variable that takes into consideration both parameter mean and parameter variation values.	
缩小型SOP (SSOP)	33.2030	信噪比（过程控制）	91.0933
有四种尺寸的元器件封装系列，每种尺寸的封装引线间距都在0.625mm[0.0025in]至0.3mm[0.012in]之间。		包括参数平均值和参数变异值在内的响应变量。	
Shuttle	44.0930	Silk screening	52.0937
The device that holds the quill of the filling yarn and carries it back and forth across the width of the fabric.		See “Screen Printing.”	
梭子	44.0930	丝印	52.0937
夹持填充纱线的线轴并携带纱往返穿过织物宽度的装置。		见“网印， Screen Printing”。	
Sigma (σ)	94.0931	Silver Migration	92.0938
The lowercase Greek letter that is used to designate a standard deviation of a population.		The ionic removal of silver and its redeposition in an adjacent area under the influence of migration-inducing conditions.	
西格玛	94.0931	银迁移	92.0938
用来表示总体标准差的小写希腊字母。		在诱发迁移条件的影响下，银离子移动并在相邻区域重新沉积。	
Signal	21.0932	Silver Streak (Base Materials)	96.2033
An electrical impulse of a predetermined voltage, current, polarity and pulse width.		See “Tunnel Void.”	
信号	21.0932	银条纹（基材）	96.2033
预先确定了电压、电流、极性和脉冲宽度的电脉冲。		见“管状空洞， Tunnel Void”。	
Signal Conductor	22.0934	Simulated Aging	92.0939
An individual conductor that is used to transmit an impressed electrical signal.		The artificial exposure of material to conditions of both high and low temperature and humidity in an attempt to produce changes that occur during its extended exposure to normal environmental conditions.	
信号导体	22.0934	模拟老化	92.0939
用来传输外加电信号的单个导体。		将材料暴露于高低温和高低湿度条件下，以使其产生将其置于常规环境条件下发生的变化。	
Signal Line	22.0935	Simulated Datum	92.0940
A conductor used to transmit a logic signal from one part of a circuit to another.		The surface or feature(s) on a fixture, used as a machine reference, which is correlated to the original board or assembly datum.	
信号线	22.0935	模拟基准	92.0940
用来将逻辑信号从电路的一部分传输到另一部分的导体。		用作加工参考的夹具表面或特征，其与板或组件的初始基准有关。	
Signal Plane	22.0936	Single Chip Package (SCP)	33.2034
A conductor layer that carries electrical signals. (See also “Ground Plane” and “Voltage Plane.”)		An integrated circuit package containing only one semiconductor die.	

单芯片封装 (SCP)	33.2034	Singulate	51.2178
只含有一块半导体芯片的集成电路封装。		The act of extracting one unit from a set, as in, stepped images and multiple embedded components.	
Single-Image Production Master	24.0941	提取单片	51.2178
A production master that is used in the process of making only one printed board. (See also "Multiple-Image Production Master.")		从一组集合中例如分步式方法复制出的图像和多个嵌入式元器件分离出一个单元个体的动作。	
单个图像生产底版	24.0941		
制作单块印制板过程中使用的生产底版。(又见“多重图像生产底版，Multiple-Image Production Master”。)			
Single-Inline Package (SIP)	31.0942	Sizing	44.0948
A component package with one straight row of pins or wire leads.		The method of applying size i.e., starch, to a group (width) of warp yarns on a continuous basis.	
单列直插封装 (SIP)	31.0942	上浆	44.0948
具有一排笔直的插针或金属引线的元器件封装。		连续向一组(幅)经线加浆料即浆糊的方法。	
Single-Layer Carrier Tape	36.1528	Skin Depth	21.2035
The carrier for conductors used in tape-automated bonding that consists only of a metal foil. (See also "Multilayer Carrier Tape," "Two-Layer Carrier Tape," and "Three-Layer Carrier Tape.")		The depth into a conductor for which the reciprocal of the current associated with a propagating electromagnetic signal is flowing. The depth becomes less as frequency increase.	
单层载带	36.1528	趋肤深度	21.2035
仅由一层金属箔组成用于自动载带键合的导体载带。 (又见“多层载带，Multilayer Carrier Tape”和“两层载带，Two-Layer Carrier Tape”和“三层载带，Three-Layer Carrier Tape”。)		导体深度，与传播电磁信号相关的电流成倒数关系。 深度随着频率的增加而降低。	
Single-Point Bonding	74.0943	Skin Effect	21.0946
The making of terminations one at a time. (See also "Gang Bonding.")		The increase in resistance of a conductor at microwave frequencies that is caused by the tendency of electric current to concentrate at the conductor's surface.	
单点键合	74.0943	趋肤效应	21.0946
每次只制作一个端接点。(又见“群点键合，Gang Bonding”。)		微波频率下由于电流趋向集中于导体表面而引起导体阻抗的增加。	
Single-Sided Assembly	80.0944	Skip Via	22.2036
A packaging and interconnecting structure with components mounted only on one side. (See also "Double-Sided Assembly.")		A via that directly connects conductive layers of build-up/HDI layers that are not adjacent with each other.	
单面组件	80.0944	跳孔	22.2036
元器件只安装在基板一面的封装互连结构。(又见“双面组件，Double-Sided Assembly”。)		直接连接积层或HDI层的互相不相邻导电层的导通孔。	
Single-Sided Printed Board	60.0945	Skipping	52.0947
A printed board with a conductive pattern on only one side.		When a coating or resist does not cover the spaces between adjacent conductors.	
单面印制板	60.0945	漏印	52.0947
只在一面有导电图形的印制板。		涂层或阻焊剂，未覆盖相邻导体之间的间距。	
		Slice	35.0949
		See "Wafer."	
		薄片	35.0949
		见“晶圆，Wafer”。	

Sliver	96.0950	Smear Removal	54.0953
A slender portion of plating overhang that is partially or completely separated from a conductor edge.		See "Desmear."	
镀屑	96.0950	钻污去除	54.0953
与导体边缘部分或全部分离的镀层突沿的细小部分。		见“去钻污， Desmear”。	
Slump	73.0951	Smeared Bond	74.0952
The distance that a substance, e.g., adhesive, moves after it has been applied.		A bond impression that has been distorted or enlarged by excess lateral movement of the bonding tool or holding device fixture.	
塌落	73.0951	模糊键合	74.0952
物质如粘合剂在涂敷后移动的距离。		由于键合工具或固定器件的夹具的过度横向移动造成的接合区变形或增大。	
Small Outline J-Lead (SOJ)	33.2158	Socket Contact	37.0954
A generic rectangular component package, whose chip cavity or mounting area occupies a major portion of the package area, with leads on two opposing sides that are formed in a "J" shape.		A female connector contact.	
小外形J形引线封装 (SOJ)	33.2158	插座接触件	37.0954
常见的矩形元器件封装，其芯片腔体或安装区域占据了封装区域的主要部分，而在其两个对边成形有J形引线。		一种凹形连接器接触件。	
Small Outline No-Lead (SON)	33.2159	Soft Error	35.2037
A generic rectangular component package outline wherein the metal pad terminations are formed on two sides of the bottom of the package.		A temporary electrical state error in a circuit caused by a transient event.	
小外形无引线封装 (SON)	33.2159	软故障	35.2037
常见的的矩形元器件封装，其金属端子连接盘成形于封装底部的两边。		由于瞬时事件引发的临时电气状态错误。	
Small Outline Package (SOP)	33.2160	Softening (Cured Solder Mask)	47.0873
A generic rectangular component package, whose chip cavity or mounting area occupies a major portion of the package area, with leads or metal pad surfaces on two opposing sides.		A decrease in hardness as evidenced by a decrease in pencil (scratch) hardness test results.	
小外形封装 (SOP)	33.2160	软化 (已固化的阻焊膜)	47.0873
常见的矩形元器件封装，其芯片腔体或安装区域占据了封装区域的主要部分，在其两个对边有引线或金属连接盘面。		铅笔(划痕)硬度测试结果显示的硬度降低。	
Smaller-the-Better Characteristic	91.1817	Solarization	24.0955
A parameter of quality that improves performance as its value decreases. (See also "Larger-the-Better Characteristic" and "Nominal-is-Best Characteristic.")		A decrease in density with increased exposure.	
越小越好特性	91.1817	曝光过度	24.0955
其数值减少时可提高性能的质量参数。(又见“越大越好特性， Larger-the-Better Characteristic” 和 “标称值最好特性， Nominal-Is-Best Characteristic”。)		由于增加曝光量而导致密度下降。	
Solder	46.0956	Solder	46.0956
A metal alloy with a melting temperature that is below 427 °C [800 °F].		熔融温度低于427 °C[800 °F]的金属合金。	
焊料	46.0956	Solder Ball	75.0959
		A small sphere of solder adhering to a laminate, resist, or conductor surface. (This generally occurs after wave solder or reflow soldering.)	

焊料球	75.0959	Solder Connection Pinhole	75.0964
附着于层压板、阻焊剂或者导体表面的小球形焊料。 (通常发生于波峰或者再流焊之后。)		A small hole that penetrates from the surface of a solder connection to a void of indeterminate size within the solder connection.	
Solder Bath	75.1767	焊接连接针孔	75.0964
A container or vessel of molten solder into which component parts or assemblies are immersed.		从焊料连接表面渗入到焊接连接内尺寸不定的空洞内的小孔。	
焊料槽	75.1767	Solder Contact	37.2039
熔融焊料的容器，元器件或组件可浸入其中。		A type of connector contact whose nonmating end is in the form of a hollow cylinder, cup, eyelet, or hook that can be soldered to a wire in contact with it.	
Solder Bridging	75.0960	焊接接触件	37.2039
The unwanted formation of a conductive path of solder between conductors.		连接器接触件，其非配接端的形状有空心圆柱体状、杯状、穿孔状、或钩状，能够焊接到与其接触的导线上。	
焊料桥连	75.0960	Solder Cream	46.0965
导体之间由焊料形成的有害的导电通路。		See "Solder Paste."	
Solder Bump	74.0961	焊膏	46.0965
A round ball of solder used to make interconnections between a flip-chip component and a base material during controlled-collapse soldering.		见“焊膏， Solder Paste”。	
焊料凸点	74.0961	Solder Destination Side	73.2040
在可控坍塌焊接过程中，用于在倒装芯片器件和基材之间形成互连的圆球形焊料。		The side of the printed board or mounting structure that the solder flows toward.	
Solder Coat	53.0962	焊接终正面	73.2040
A layer of solder that is applied directly from a molten solder bath to a conductive pattern.		焊料流向印制板或安装结构的那一面。	
焊料涂层	53.0962	Solder Dissolution	70.2041
直接从熔融焊料槽中涂覆到导电图形上的一层焊料。		A phenomenon whereby metals (i.e., Ag, Pd, Cu) are dissolved in the solder.	
Solder Connection	75.0963	焊料腐蚀	70.2041
A metallurgical connection serving electrical/mechanical/thermal functions that employs solder for the joining of two or more metal surfaces. (See also, "Cold Solder Connection," "Disturbed Solder Connection," "Excess Solder Connection," "Insufficient Solder Connection," "Overheated Solder Connection," "Preferred Solder Connection," and "Solder Connection Pinhole.")		金属（如银、钯、钴）等溶解于焊料的一种现象。	
焊接连接	75.0963	Solder Embrittlement	75.0966
采用焊料连接两种或者两种以上金属表面，起电气、机械、导热作用的一种冶金连接。(又见“冷焊接连接， Cold Solder Connection”、“受扰焊接连接， Disturbed Solder Connection”、“过量焊接连接， Excess Solder Connection”、“不充分焊接连接， Insufficient Solder Connection”、“过热焊接连接， Overheated Solder Connection”、“完美焊接连接， Preferred Solder Connection”和“焊接连接针孔， Solder Connection Pinhole”。)		The reduction in mechanical properties of a metal as a result of local penetration of solder along grain boundaries.	
		焊料脆化	75.0966
		由于焊料沿着晶界的局部渗透而引起金属机械属性的下降。	
		Solder Fillet	75.0967
		Solder, with a normally concave surface, that is at the intersection of the metal surfaces of the solder connection.	
		焊料填充	75.0967
		位于焊接连接金属表面交叉处、具有正常内凹表面的焊料。	

Solder Fillet Lifting	97.1833	Solder Mask	47.0973
The phenomenon in which a solder fillet is lifted off from a land on a board mainly during the flow soldering process. Usually, the phenomenon is more likely to occur on the primary side rather than on the secondary side which is exposed to flow soldering.		A heat-resisting coating material applied to selected areas to prevent the deposition of solder upon those areas during subsequent soldering.	
焊料填充起翘	97.1833	阻焊膜	47.0973
在流动焊接工艺中填充焊料升起与板上焊盘分离的现象。通常，该现象更可能发生于暴露在流动焊接中的焊接正面，而不是辅面。		涂敷到选定区域的耐热涂层材料，防止在后续焊接中焊料沉积到这些区域。	
Solder Fillet Tearing	97.1834	Solder Mask Aperture	22.0977
The tearing of a solder fillet from a land (pad). The term often refers to a re-melting separation that happens in mixed component-mounting in lead-free soldering process.		An opening in a solder mask.	
焊料填充撕裂	97.1834	阻焊剂开孔	22.0977
焊料填充与连接盘（垫）撕裂。该术语常指发生在无铅焊接工艺混装元器件安装中的再熔分离。		阻焊剂中的开口。	
Solder Flow-up	70.2042	Solder Meniscus	75.1766
The phenomenon in which molten solder flows from the solder contact side, through a plated-through hole, and wets the non-solder contact periphery, spreading to the component terminations.		The contour of a solder shape that is the result of the surface-tension forces that take place during wetting.	
焊料爬升	70.2042	焊料弯液面	75.1766
熔融的焊料从焊料接触面通过镀覆孔润湿非焊料接触的四周，蔓延到元器件端子的现象。		在润湿期间产生的表面张力所导致的焊料外形轮廓。	
Solder Joint	75.2043	Solder Paste	46.1818
See "Solder Connection."		Finely divided particles of solder, with additives to promote wetting and to control viscosity, tackiness, slumping, drying rate, etc., that are suspended in a cream flux.	
焊点	75.2043	焊膏	46.1818
见“焊料连接， Solder Connection”。		含有能促进润湿并控制粘度、触变性、塌落、干燥速度等添加剂的细小颗粒状焊料，其悬浮于膏状焊剂中。	
Solder Leveling	53.1677	Solder-Paste Flux	75.0957
A solder coating process that causes redistribution and/or partial removal of excess molten solder from a printed board by applying sufficient heat and mechanical force.		Solder paste without the solder particles.	
焊料整平	53.1677	焊膏助焊剂	75.0957
通过施加足够的热量和机械力重新分配印制板上的熔融焊料并/或除去印制板上部分多余熔融焊料的焊料涂覆工艺。		未含焊料颗粒的焊膏。	
Solder Luster	75.2044	Solder Paste Printing Bleed	75.2045
A state in which the surface of a solder fillet is smooth and lustrous.		A spread of solder paste beyond the opening of screen mask.	
焊料光泽	75.2044	焊膏印刷溢出	75.2045
焊料填充的表面平滑且有光泽的状态。		焊膏蔓延超出网板开孔。	
Solder Powder		Solder Plug	75.0974
		A core of solder in a plated-through hole.	
焊料塞		Solder Paste	46.2046
		镀覆孔内的焊料芯。	
		A small particle of solder having a spherical or irregular shape.	

焊料粉	46.2046	Solder Sputter	75.0979
球形或不规则形状的焊料小颗粒。		Extraneous fragments of solder with an irregular shape.	
Solder Projection	75.0975	焊料飞溅	75.0979
An undesirable protrusion of solder from a solidified solder joint or coating.		不规则形状的焊料外飞碎片。	
焊料拉尖	75.0975	Solder Terminal	37.0980
凝固焊点或涂层上多余的焊料突出物。		An electrical/mechanical connection device that is used to terminate a discrete wire or wires by soldering. (See also “Bifurcated Solder Terminal,” “Cup Solder Terminal,” “Hook Solder Terminal,” “Perforated (Pierced) Solder Terminal,” and “Turret Solder Terminal.”)	
Solder Reflow	75.2047	焊接接线柱	37.0980
See “Reflow Soldering.”		通过焊接收尾分立导线的电气/机械连接装置。(又见“双叉焊接接线柱，Bifurcated Solder Terminal”、“焊锡杯，Cup Solder Terminal”、“钩形焊接接线柱，Hook Solder Terminal”、“穿孔焊接接线柱，Perforated (Pierced) Solder Terminal”和“塔形焊接接线柱，Turret Solder Terminal”。)	
焊料再流	75.2047	Solder Webbing	75.0981
见“再流焊接，Reflow Soldering”。		A continuous film or curtain of solder that is parallel to, but not necessarily adhering to, a surface that should be free of solder.	
Solder Resist	47.1674	锡网	75.0981
See “Solder Mask.”		与不应有焊料的表面平行但不一定会粘附其上、连续的膜状或帘幕状焊料。	
阻焊剂	47.1674	Solder Wicking	75.0982
见“阻焊膜，Solder Mask。”		The capillary movement of solder between metal surfaces, such as strands of wire.	
Solder Side	22.0978	焊料芯吸	75.0982
The secondary side of a single-sided assembly.		焊料在金属表面间，如导线股线，的毛细管移动现象。	
焊接面	22.0978	Solderability	75.0958
单面组件的辅面。		The ability of a metal to be wetted by molten solder.	
Solder, Silver-Tin	46.2049	可焊性	75.0958
Lead-tin solder with a percent of silver added to prevent the silver dissolution phenomenon, thus increasing the melting point according to the silver content.		金属被熔融焊料浸润的能力。	
锡银焊料	46.2049	Soldering	75.0968
为防止银析出现象在锡铅焊料中加入一定比例的银，因而焊料熔点会依据银的含量而升高。		The joining of metallic surfaces with solder and without the melting of the base material.	
Solder Spread Test	92.1819	焊接	75.0968
The determination of a relative measure of solder flux efficiency that is obtained by determining the area of spread of a specified weight of solder that has been placed on a specially prepared and fluxed metallic surface.		用焊料连接金属表面，但不需熔化金属基材的连接。	
焊料铺展测试	92.1819	Soldering Ability	75.0969
一定重量的焊料置于专门准备并涂有助焊剂的金属表面，测量其扩展面积来相对测量焊料焊剂的效率。		The ability of a specific combination of components to facilitate the formation of a proper solder joint.	
Solder Source Side	73.2048		
The side of the printed board or mounting structure to which solder is applied.			
焊接起始面	73.2048		
施加焊料的印制板或安装结构面。			

焊接能力	75.0969	Solid-State Bond	74.0983
有助于良好焊点形成的特定组合成分的能力。		See "Diffusion Bond."	
Soldering Flux	75.0970	固态键合	74.0983
See "Flux."		见“扩散键合，Diffusion Bond”。	
焊接助焊剂	75.0970	Solid-Tantalum Chip Component	32.0984
见“助焊剂，Flux”。		A capacitor in a leadless package whose dielectric material is solid tantalum.	
Soldering Iron	75.1768	固体钽片式元器件	32.0984
Common name for a tool which is used to heat components and to reflow solder.		电介质为固体钽的无引线封装电容。	
烙铁	75.1768	Solidus (Soldering)	75.2050
用来加热元器件和熔化焊料的工具的通用名称。		The temperature at which a solder alloy begins to melt.	
Soldering Iron Tip	75.0971	固相线（焊接）	75.2050
The portion of a soldering iron that is used for the application of the heat that melts the solder.		焊料合金开始熔化的温度。	
烙铁头	75.0971	Solvent	76.0985
用来施加熔化焊料热量的烙铁的一部分。		A nonreactive liquid substance that is capable of dissolving another substance.	
Soldering Oil (Blanket)	75.1529	溶剂	76.0985
Liquid formulations that are used in intermix wave soldering and as coverings on static and wave soldering pots in order to eliminate dross and to reduce surface tension during the soldering operation.		能够溶解另一种物质的非活性液态物质。	
焊接油（覆盖层）	75.1529	Solvent Cleaning	76.0986
用于混合波峰焊接并作为静态及动态波峰焊槽保护层的液体制剂，以在焊接操作期间去除氧化渣及减小表面张力。		The removal of organic and inorganic soils using a blend of polar and nonpolar organic solvents.	
Soldering Temperature Resistance	75.1865	溶剂清洗	76.0986
The ability of the material to withstand the exposure of being subjected to molten or reflow solder temperatures without changing the physical properties of the material in excess of an acceptance criteria.		采用极性和非极性有机溶剂混合物去除有机和无机污物。	
耐焊接温度	75.1865	Solvent Extraction	76.1531
材料暴露于熔融、或焊料回流的温度下，但其物理特性变化没有超过验收标准的能力。		The removal of one or more components from a liquid mixture by intimate contact with a second liquid that is nearly insoluble in the first liquid and which dissolves the impurities and not the substance that is to be purified.	
Solderless Wrap	75.1530	溶剂萃取	76.1531
The connecting of a solid wire to a square, rectangular, or V-shaped terminal by tightly wrapping a solid-conductor wire around the terminal with a special tool.		通过完全接触几乎不溶解于第一种液体的第二种液体，从液体混合物中去除一种或多种组分，其中第二种液体溶解的是杂质而不是需要提纯的物质。	
无焊绕接	75.1530	Solvent Pop	76.0987
用特殊工具将实心导体紧紧地缠绕在端子上，从而实现实心导线与方形、矩形或V型端子的连接。		Blistering caused by entrapped solvent.	
Solvent Release		溶剂爆泡	76.0987
		由于残留的溶剂造成的起泡。	
		Solvent Release	76.0988
		The ability to permit solvents to evaporate.	

溶剂释放	76.0988	特殊原因	91.0995
允许溶剂蒸发的能力。		只影响过程输出的一些个别值的间歇性的、不可预测的或不稳定的变异源。	
Solvent Wash	76.0989	Special Characters	70.2052
See "Solvent Cleaning."		Non-alphabetic or numeric characters in a bar code symbol.	
溶剂洗涤	76.0989	特殊字符	70.2052
参见“溶剂清洗， Solvent Cleaning”。		在条码符号中的非字母或数字字符。	
Space (Bar code)	70.2051	Specific Gravity	40.2053
The light element of a bar code.		The ratio of the weight of a given volume of a substance to the weight of an equal volume of water.	
空 (条码)	70.2051	比重	40.2053
条码的浅色部分。		给定体积物质的重量与同等体积水的重量之比。	
Spacing	22.0990	Specific Solderability	75.0997
See "Center-to-Center Spacing," "Conductor Spacing," "Edge Spacing," and "Pitch."		The ease with which a metal or alloy can be wetted under specific conditions.	
间距	22.0990	特定可焊性	75.0997
见“中心间距， Center-to-Center Spacing”、“导体间距， Conductor Spacing”、“边距， Edge Spacing”、和“引线间距， Pitch”。		在特定条件下，某种金属或者合金可被润湿的难易度。	
Spade Contact	37.0992	Specification Drawings	26.1532
A type of male connector contact that consists of flat metal that mates with a fork contact.		A document that shows the dimensional limits that are applicable to any or all parts of a component and any other information that is necessary to describe the product to be fabricated.	
铲形接触件	37.0992	技术图纸	26.1532
由可与叉状接触件配接的扁平金属组成的凸形连接器接触件。		表明适用于元器件的任何部分或所有部分的尺寸极限，以及描述待制造产品所必需的其它信息的文件。	
Spalling	97.0993	Specification Limits	91.0996
The chipping, fragmenting or separation of a surface coating, or the cracking, breaking or splintering of materials, due to heat.		The requirements for judging acceptability of a particular characteristic.	
散裂	97.0993	规格限	91.0996
由于受热导致表面涂层碎裂、分裂或分离，或导致材料的脆裂、断裂、劈裂。		判断特定特性可接受性的要求。	
Span	22.0994	Specimens	92.1769
The distance from the reference edge of the first conductor in a group of parallel conductors to the reference edge of the last conductor in the group.		Samples of a material, device or circuit, representative of the production lot, which are selected for testing.	
跨距	22.0994	试样	92.1769
从一组平行导体的第一个导体基准边到该组导体中最后一个导体的基准边之间的距离。		被选定做测试的代表生产批量的材料、器件或电路的样品。	
Special Cause	91.0995	Specks	70.2054
A source of variation that is intermittent, unpredictable, or unstable that affects only some of the individual values of process output.		Ink splatter not part of a bar code pattern.	

斑点	70.2054	Spur	24.1004
不属于条形码图形部分的油墨飞溅点。		An undesirable clear projection from a clear photographic pattern or a dark projection from a dark photographic pattern.	
Splay	51.0998	凸刺	24.1004
The tendency of a rotating drill bit to make off-center, out-of-round, holes that are not perpendicular to the drilling surface.		明亮照相图形中的不良明亮突出，或暗照相图形中的不良暗色突出。	
斜孔	51.0998	Spurious Signal	21.1006
旋转钻头钻出偏心、不圆，且与被钻表面不垂直的孔。		See "Crosstalk."	
Split (Fabric)	44.0999	寄生信号	21.1006
An opening in a fabric that results from having either the pick or end breaking in two.		见“串扰， Crosstalk”。	
裂缝 (织物)	44.0999	Sputtering	53.1007
由于经线或纱线断裂成两部分而导致的织物开口。		The ejection of atoms caused by ion bombardment of a target material in a plasma environment and the subsequent deposition of ejected atoms onto the surface of the substrate.	
Spot Size	70.2055	溅涂	53.1007
The diameter of the focused image of the emitter in bar code.		由高能离子轰击等离子源使原子移动，并连续沉积在基材表面成为薄膜。	
点尺寸	70.2055	Squeegee	75.2056
条码中发射器聚焦图像的直径。		A metal or rubber blade used to wipe a material (ink or solder paste) across a stencil or silk screen to force the material through the openings in the screen or stencil, onto the surface of a printed board or mounting structure.	
Spotting Out	96.1000	刮刀	75.2056
The delayed appearance of spots and blemishes on plated or finished surfaces.		金属或橡胶刀片，用于在模板或丝网推动材料（油墨或者焊膏），以使材料通过模板或丝网开口沉积到印制板或安装结构的表面。	
疵点显现	96.1000	Stability	91.1008
在镀覆或涂饰表面上斑点或疵点的滞后显现。		The absence of special causes of variation.	
Spread	73.1001	稳定性	91.1008
The distance of a substance, e.g., adhesive, moves after it has been applied at ambient conditions.		不存在变异的特殊原因。	
铺展	73.1001	Stabilization Period	57.1009
室温条件下，物质如粘合剂被涂敷后移动的距离。		The period of time in the reflow profile after preheat and before the reflow spike occurs where the temperature of the metals being joined are allowed to equalize.	
Spread (Values)	91.1002	稳定期	57.1009
A general concept for the extent by which values in a distribution differ from one another.		再流焊温度曲线中，预热后到再流焊峰值前使待连接金属件温度保持相等所经历的时间周期。	
离散 (数值)	91.1002	Stable Process	91.1010
一定范围内所分布的数值彼此不同的总概念。		A process that is in statistical control.	
Sprocket	74.1003		
A perforation along the edge of a carrier tape that is used to move and align the tape during the tape fabrication, assembly, and testing operations.			
输送定位孔	74.1003		
沿着载带边缘的穿孔，在制造、组装、测试操作期间，用于移动和对准载带。			

稳定工艺	91.1010	Stand-Off	70.1770
处于统计控制中的过程。		A post or protrusion used to facilitate raising a surface mounting device above the surface of the substrate.	
Stack Pin	51.2057	托高	70.1770
The metal pin used for fastening and positioning of a panel(s) in hole drilling or peripheral cutting.		有助于抬高基板表面上的表面贴装器件的柱形托架或凸起物。	
支撑销	51.2057	Standard Deviation of a Population	91.1534
钻孔或铣板时用来紧固及定位在制板的金属销。		A measure of the distribution of a population about a mean value that is equal to the square root of the variance of a process output. (See also "Sigma.")	
Stacked Via/Microvia	61.2058	总体标准差	91.1534
A via/microvia structure formed by stacking one or more build-up vias/microvias in a build-up multilayer providing an interlayer connection between three or more conductive layers.		总体关于平均值分布的量度，平均值等于过程输出方差的平方根。(又见“西格马，Sigma”。)	
叠层导通孔/微导通孔	61.2058	Standard Laboratory Conditions	92.2086
通过在积层多层内叠加一个或者多个的积层导通孔/微导通孔形成的导通孔/微导通孔结构，可实现三层以上的内层连接。		A laboratory environment with a temperature of 23 ± 3 °C and a relative humidity of $55 \pm 10\%$.	
Stain Proofing	76.1011	标准实验室条件	92.2086
The retardation of the oxidation of a metal surface.		温度 23 ± 3 °C及相对湿度 $55 \pm 10\%$ 的实验室环境。	
防锈处理	76.1011	Standard (Electrode) Potential	76.1535
抑制金属表面氧化的处理。		The reversible potential from an electrode process when all products and reactants are at unit activity on a scale in which the potential for a standard hydrogen half-cell is zero.	
Staking, Adhesive	73.1012	标准（电极）电势	76.1535
The bonding or attaching of components, or component elements, to a surface or together by the application of small quantities of adhesive material.		以标准氢半电池电位为零，来衡量一个电极反应的所有生成物和反应物单位活度时可逆电势。	
粘合固定	73.1012	Standoff Solder Terminal	37.1014
通过施加少量粘合材料将元器件或元器件局部与表面或整体粘接或连接在一起。		See "Turret Solder Terminal."	
Staking, Mechanical	75.1533	高脚焊接接线柱	37.1014
The attaching of metallic devices, such as solder terminals and eyelets, by the upsetting of the portion of the device that protrudes through a hole in a base material.		见“塔形焊接接线柱，Turret Solder Terminal”。	
机械固定	75.1533	Start/Stop Characters	70.2059
通过镦锻器件凸出于基材通孔上的部分，实现金属器件如焊接端子及空心铆钉的连接。		Distinct characters at the beginning and end of each bar code symbol that provide directional information for the decoding logic.	
Stamped Printed Wiring	60.1013	起始/终止符	70.2059
Wiring that is produced by die stamping and bonding a metal foil to a base material.		每个条码符号中起始和结束的区别符号，可提供用于编码逻辑的方向信息。	
冲压印制线路	60.1013	Static Electricity	21.2060
在基材上粘合一层金属箔并由模具冲压形成线路。		An electrical charge (potential) at rest.	
		静电	21.2060
		静止的电荷(电势)。	

Static Electricity Control	21.2061	统计质量管理 (SQC)	91.1017
A technique where materials and systems are employed to eliminate/discharge static electricity buildup by providing continuous discharge paths.			采用统计技术证明并确保最终产品符合要求。
静电控制	21.2061	Steam Aging	92.2063
通过提供连续的放电路径，采用材料和系统消除/释放所累积的静电的方法。			The exposure of a finish to an environment humidified by steam to precondition the finish for reliability.
Static Relative Permittivity	21.2062	蒸汽老化	92.2063
The ratio of the capacitance (C_x) of a given configuration of electrodes with a specified dielectric, filling all the region of electro potential field, to the capacitance (C_v) of the same electrode configuration with a vacuum (or air) as the dielectric.			将成品暴露于通过水蒸汽增湿的环境中，以便为可靠性对成品进行预处理。
静态相对介电常数	21.2062	Stencil (Solder Paste/Adhesive)	75.1849
用特定电介质填满所有电势场区域的指定结构电极的电容量 (C_x) 与用真空(空气)作为电介质的同样结构电极的电容量 (C_v) 之比。			A thin sheet of material containing openings to reflect a specific pattern, designed to transfer a paste-like material to a substrate for the purpose of component attachment.
Statistical Control	91.1015	模板 (焊膏/粘合剂)	75.1849
The condition of describing a process from which all special causes of variation have been eliminated and, thereby, only common causes remain.			含有设计的特定图形开口的薄材料板，用于将类似膏状的材料转移到基板上，从而实现元器件的连接。
统计控制	91.1015	Stencil Border	75.1850
描述已消除了所有变异的特殊原因，只剩下共同原因的过程状况。			Peripheral tensioned mesh, either polyester or stainless steel, which keeps the stencil foil flat and taut, connecting the foil to the frame.
Statistical Hypothesis	91.1016	模板边	75.1850
An assumption that is made about a population being sampled. (See also "Alternative Hypothesis" and "Null Hypothesis.")			保持模板箔平整绷紧并连接到框架上的聚脂或者不锈钢材料制成的四周拉紧边。
统计假设	91.1016	Stencil Foil	75.1851
对被抽样总体所作的假设。(又见“备择假设，Alternative Hypothesis”和“原假设，Null Hypothesis”。)			The metal area of the stencil, which contains the print pattern.
Statistical Process Control (SPC)	91.1536	模板箔	75.1851
The use of statistical techniques to analyze a process or its output so as to be able to take appropriate action in order to achieve and maintain a state of statistical control and to improve process capability.			含有印刷图形的模板金属区域。
统计过程控制 (SPC)	91.1536	Stencil Frame	75.1855
采用统计技术分析一个过程或其输出，以便能够采取适当的措施达到并保持统计控制状态及改善过程能力。			A device onto which the stencil-foil is mounted. This may be tubular or cast aluminum with the border permanently mounted using an adhesive cast frame sizes are referenced from the inside. Tubular frame sizes are referenced from the outside.
Statistical Quality Control (SQC)	91.1017	模板框架	75.1855
The use of statistical techniques to document and assure end product compliance with requirements.			模板箔安装在其上的装置，可以是带有用粘合剂永久安装的模板边的铝管或铸铝制成。铸铝框架大小根据内侧尺寸而定，铝管框架大小根据外侧尺寸而定。
Statistical Quality Control (SQC)	91.1017	Stencil (Solder Mask)	52.1852
A thin sheet of material containing openings designed to transfer paste-like solder mask material to a substrate to form the protective pattern.			A thin sheet of material containing openings designed to transfer paste-like solder mask material to a substrate to form the protective pattern.

模板（阻焊膜）	52.1852	增强板	60.2065
含有设计的开孔的薄材料板，用于将类似膏状的阻焊膜材料转移到基板上形成保护图形。		固定在印制板表面以加强其机械强度的材料。	
Stencil Step	75.1853	Stitch Bond	74.1021
A stencil with more than one stencil-foil thickness.		A bond made with a capillary-type bonding tool whereby the wire is not formed into a ball prior to bonding.	
阶梯模板	75.1853	跳点键合	74.1021
金属箔厚度多于一种的模板。		用毛细管形键合工具形成的键合，键合前金属线不形成球形。	
Step Plating	53.2064	Straight-Through Lead	72.1022
A plating phenomena wherein the plating does not plate to the edge (sidewall) of the plating resist.		A component lead that extends through a hole and is terminated without subsequent forming.	
阶梯状电镀	53.2064	直通引线	72.1022
不能电镀所电镀抗蚀剂边缘（侧壁）的电镀现象。		直接伸入孔中且无需后续成形就可端接的元器件引线。	
Step Scale	24.1537	Strain Relief (Connector)	37.1023
A series of regularly-spaced tones that range from black, through intermediate shades of gray, to white that is used as a reference scale for exposure control in a photo-fabrication process.		A receptacle connector device that prevents the disturbance of the contact and cable terminations.	
光梯尺	24.1537	释力夹（连接器）	37.1023
一种有规则间隔的从黑色经灰色过渡到白色的色调，用于感光加工过程控制曝光的参照尺度。		可防止接触件及线缆端接点干扰的插座连接器装置。	
Step Soldering	75.1019	Stress Corrosion Cracking	95.1024
The making of solder connections by sequentially using solder alloys with successively-lower melting temperatures.		Spontaneous cracking produced by the combined action of corrosion and residual or applied static stress.	
分步焊接	75.1019	应力腐蚀裂纹	95.1024
按序用熔融温度逐步降低的焊料合金进行焊接连接。		由腐蚀、残留或所施加的静态应力的共同作用而产生的自然裂纹。	
Step Wedge	24.1020	Stress Relief	36.1025
See "Step Scale."		The portion of a component lead or wire lead that is formed in such a way as to minimize mechanical stresses after the lead is terminated.	
感光级谱	24.1020	应力消除	36.1025
见“光梯尺， Step Scale”。		元器件的引线或导线引线收尾后，其中部分再适当成形以使机械应力降低到最低程度。	
Step-and-Repeat	24.1018	Stress Relief (Clad Laminate)	41.2066
A method of dimensionally positioning multiples of the same or intermixed functional patterns accurately within a given area on the phototool or by repetitious contact, projection printing or photoplotting.		The process used to reduce tension between the copper foil and the core material of a clad laminate.	
步进-和-重复	24.1018	应力消除（覆金属箔层压板）	41.2066
通过重复接触、影印或光绘在底片指定区域精确定位多个相同或不同功能图形的方法。		减少铜箔与覆金属箔层压板芯材之间张力的工艺。	
Stiffener Board	60.2065	Strike Plating	53.2067
A material fastened to the surface of a printed board to increase its mechanical strength.		A thin plating used as a base for subsequent plating.	

闪镀层	53.2067	Stud Via	22.2070
作为后续电镀基底的薄镀层。		A via formed with a conductive stud, or pin.	
Stringing	73.1026	栓导通孔	22.2070
The forming of a “tail” of adhesive as the dispensing tool pin or needle is withdrawn from the deposited adhesive.		用导电栓或销形成的导通孔。	
拉丝	73.1026	Stud-Mount Termination	30.1031
当点涂工具针与点涂的粘合剂分离时，形成粘合剂“拖尾”。		See “Straight-Through Lead.”	
Strip (Resist Stripping)	52.2069	直装端子	30.1031
The process of removing unneeded masking material, such as a photoresist or metallic etch resist, after a processing step is completed.		见“直通引线，Straight-Through Lead”。	
剥离（抗蚀剂剥离）	52.2069	Subgroup	91.0140
完成一道工序后，除去不需要的掩膜材料，如光致抗蚀剂或金属抗蚀剂的过程。		A subset of a population that is analyzed dependently in order to eliminate assignable causes of variation.	
Stripback	44.1027	子群	91.0140
Broken filaments along a yarn strand that are pushed back and protrude above the fiber plane.		为了消除变异的可辩识的原因而单独分析的总体子集。	
断纱折回	44.1027	Subnet	21.1206
断丝延着纱线折回并从织物平面突起。		A single source and a single target point that, together with associated vias, lands, and preplaced items, are completely connected by route segments within one net.	
Stripline	21.1028	子网络	21.1206
A transmission line structure that consists of a signal line that runs parallel to and is sandwiched between and separated by a dielectric from two reference planes.		由布线段将其与相关导通孔、连接盘、预置元器件完全连接在一个网络内的单个源和单个目标点。	
带状线	21.1028	Substrate	41.1207
与由电介质隔开的两个基准面平行并位于其中的信号线组成的传输线结构。		See “Base Material.”	
Structurally-Similar Construction	90.1029	基板	41.1207
Material combinations and materials whose construction details will not affect test results at the primary stage of manufacture.		见“基材，Base Material”。	
结构类似构造	90.1029	Substrate Bending Test	92.1771
其组成细节不会影响到制造初期测试结果的材料组合及材料。		A test applied to a substrate to determine its resistance to bending and the effects of bending to the substrate and any components mounted on the substrate.	
Stub	21.1030	基板弯曲测试	92.1771
A branch of the main signal line of a signal net that is usually used to reach a load that is not on the direct signal path.		确定基板抗弯曲能力及弯曲对基板和安装在基板上元器件的影响的测试。	
支线	21.1030	Subsurface Corrosion	96.1208
信号网络中主信号线的分支线，通常用于通向不在直接信号通路上的负载。		Formation of isolated particles of corrosion products beneath a metal surface.	
		表面下腐蚀	96.1208
		金属表面下孤立的腐蚀性产物颗粒的形成。	
		Subtractive Process	50.1209
		The fabricating of a conductive pattern by the selective removal of unwanted portions of a conductive foil.	

减成法工艺	50.1209	Surface Mount Component (SMC)	30.1034
通过选择性地去除无用导电箔而制作成导电图形的工艺。		A leaded or leadless device (part) that is capable of being attached to a printed board by surface mounting.	
Sum of Squares	91.1210	表面贴装元器件 (SMC)	30.1034
The variance of a parameter computed from the variance (square of the standard deviation) of several contributing factors. The sum of squares is based on the variation in the factors being normally distributed.		可以通过表面贴装的方式连接到印制板的有引线或无引线器件（部件）。	
平方和	91.1210	Surface Mount Device (SMD)	30.1772
由几个起作用因子的方差（标准偏差平方）计算得到一个参数的方差。平方和以正态分布的因子方差为基础。		See “Surface Mount Component (SMC).”	
Support Ring	36.1033	表面贴装器件 (SMD)	30.1772
Dielectric material that is used to hold beam leads in place relative to one another outside of a packaged device.		见“表面贴装元器件 (SMC), Surface Mount Component (SMC)”。	
支撑环	36.1033	Surface Mounting Technology (SMT)	73.1035
用于固定封装器件外梁式引线相互位置的绝缘材料。		The electrical connection of components to the surface of a conductive pattern that does not utilize component holes.	
Supported Hole	22.1211	表面贴装技术 (SMT)	73.1035
A hole in a printed board that has its inside surfaces plated or otherwise reinforced.		元器件不采用元器件孔，与导电图形表面实现电气连接。	
支撑孔	22.1211	Surface Resistance	21.2073
其内表面被电镀或作其它加固的印制板内的孔。		The ratio of DC voltage to the current flowing between two electrodes of specified configuration that contacts the same side of a material. Expressed in ohms.	
Supporting Plane	44.1032	表面电阻	21.2073
A planar structure that is a part of a packaging and interconnecting structure in order to provide mechanical support, thermo-mechanical constraint, thermal conduction and/or electrical characteristics. (It may be either internal or external to the packaging and interconnecting structure.) (See also “Constraining Core.”)		两个接触材料同一面的指定结构电极之间的电压与流经其中的电流之比，用欧姆表示。	
支撑面	44.1032	Surface Tension	75.1036
提供机械支撑、热机械抑制、导热和/或导电特性平面结构，为封装互连结构的一部分。（既可以在封装互连结构的内部，也可在其外部。）（可见“抑制芯，Constraining Core”。）		The natural, inward, molecular-attraction force that inhibits the spread of a liquid at its interface with a solid material.	
Surface Insulation Resistance (SIR)	92.1538	表面张力	75.1036
The electrical resistance of an insulating material between a pair of contacts, conductors or grounding devices in various combinations, that is determined under specified environmental and electrical conditions.		阻止液体在液体与固体材料交界面处扩展的固有的、向内的分子吸引力。	
表面绝缘电阻 (SIR)	92.1538	Surge	21.1037
在一一对接触件、导体或各种组合接地器件之间绝缘材料的电阻，在指定环境和电气条件下测定。		A transient variation in the current and/or potential at a point in a circuit.	
Swaged Lead		电涌	21.1037
		电路中某点电流或电压的瞬时变化。	
		Swaged Lead	72.1539
		A component lead wire that extends through a hole in a printed board and its lead extension is flattened (swaged) to secure the component to the board during manufacturing operations.	

压扁引线	72.1539	System Effective Color Temperature	24.1040
元器件引线穿入印制板孔后，压平（压扁）其伸出的引线，以便元器件在生产操作中固定在印制板上。			The effective color temperature measured using an optical system's light source to illuminate the target area.
Swell-and-Etch Process	53.1540	系统有效色温	24.1040
The surface treatment of a base material in order to promote the adhesion of an electroless metal deposit by softening the surface with a solvent and then exposing the surface to an oxidizing solution in order to create a microporous surface.			使用光学系统光源照亮目标区域而测得的有效色温。
溶胀-蚀刻工艺	53.1540	System in Package (SiP)	35.2155
为了提高化学金属沉积的附着力而进行的基材表面处理，即用一种溶剂软化表面，然后将其暴露于氧化溶液中以形成多微孔表面。			A multi-chip package (MCP) that performs a system function.
Swelling (Cured Solder Mask)	47.0261	系统级封装 (SiP)	35.2155
An increase in volume, noted as an increase in solder mask thickness due to absorption of another material such as a solvent.			完成一个系统功能的多芯片封装。
膨胀 (已固化的阻焊膜)	47.0261	T	
由于吸收其它物质，如溶剂，导致体积增加，表现为阻焊膜厚度增加。			
Symbology (Bar Code)	70.2075	Tab	22.1042
The structural characteristics of bar code symbols.			See "Printed Contact."
符号象征 (条码)	70.2075	片	22.1042
条码符号的结构特征。			见“印制接触片， Printed Contact”。
Synthetic Activated Flux	75.1038	TAB	75.1041
A highly-activated organic flux whose post-soldering residues are soluble in halogenated solvents.			See "Tape Automated Bonding."
合成活性助焊剂	75.1038	TAB	75.1041
其焊后残留物可以溶解在卤化溶剂中的高活性有机助焊剂。			见“载带自动键合， Tape Automated Bonding”。
Synthetic Resin	75.1039	Tackiness	73.2076
A synthetic organic polymer or a chemically-treated natural resin.			The adhesion between solder paste applied on a land and a SMD component.
合成树脂	75.1039	粘着性	73.2076
合成的有机聚合物或经化学处理的天然树脂。			焊盘上的所涂敷焊膏与SMD元器件之间的粘附力。
System	80.2151	Tail, Bonding	75.1043
An assemblage or combination of parts forming a complex or unitary electronic whole.			The free end of wire extending beyond the bond impression of a wire bond from the heel.
系统	80.2151	键合尾线	75.1043
由组件或部件组合而成的复杂或单一电子整体。			金属线延伸在键合点上，从键合点根部起的游离线头。
Tail Pull	75.1044	Tail Pull	75.1044
The removal of excess wire after a wedge or ultrasonic bond is made.			
尾线割除	75.1044	Tangency (Cross section)	60.2068
楔焊或超声焊键合之后多余金属线的去除。			An archaic term previously used to describe evidence of pad edge. The term is not an inspectable concept.

相切（横截面）

60.2068

用于描述盘边缘状况的旧术语。该术语是一个不可观察的概念。

Tape

75.1045

See "Carrier Tape."

带

75.1045

见“载带， Carrier Tape”。

Tape Automated Bonding

75.1046

A fine-pitch technology that provides interconnections between die and base materials with conductors that are on a carrier tape. (See Figure T-1.)

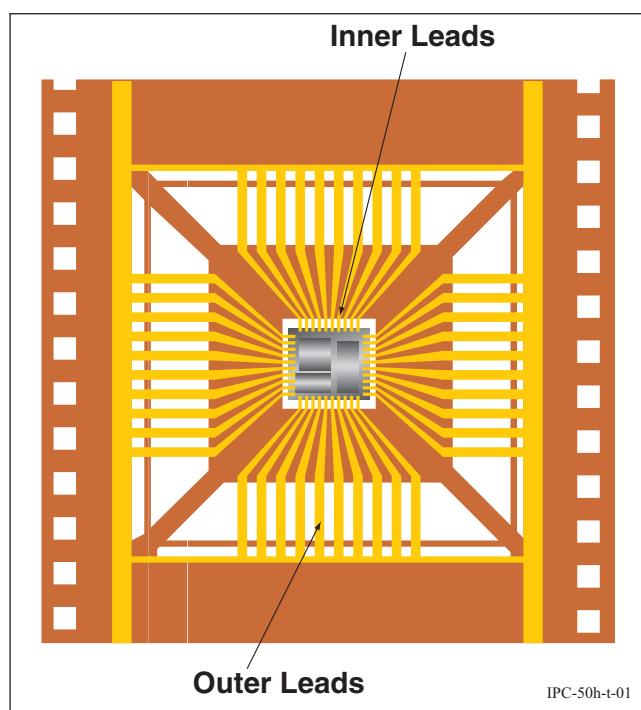


Figure T-1 Tape Automated Bonding

载带自动键合

75.1046

用在载带上的导体实现芯片和基体材料之间互连的细间距技术。(见图T-1)。

Tape Carrier Package (TCP)

33.2077

A semiconductor package that has the TAB connection and is coated by a resin.

载带封装 (TCP)

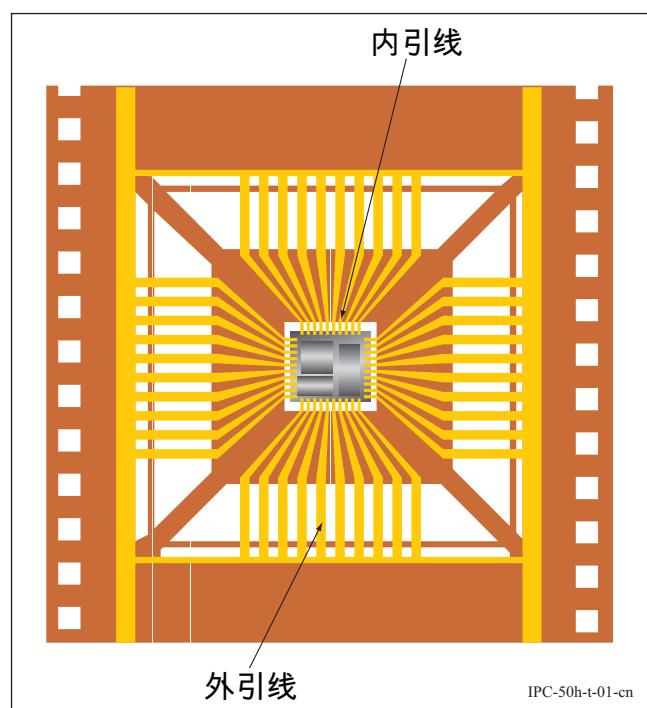
33.2077

具有TAB连接并且用树脂涂敷的半导体包装。

Taped Component

71.1541

A component that is attached to a continuous tape in order to facilitate the use of automatic component incoming inspection, lead forming, assembling and testing.



图T-1 载带自动键合

带式元器件

71.1541

元器件附着于一根连续的带子上，以便自动进行元器件来料检验、引线成形、组装和测试。

Target Land (Via Bottom Land)

22.2117

The land portion of a microvia connecting to an internal conductor. (See also "Capture Land.")

目标连接盘（导通孔底部连接盘）

22.2117

与内部导体连接的微导通孔的连接盘部分。见“Capture Land, 诱捕连接盘”。

Tear (Base Materials)

96.2078

A rip or split in either direction of the resin-coated reinforcement fabric in a base material dielectric structure.

撕裂（基材）

96.2078

基材电介质结构内涂有树脂的增强织物任一方向上的裂缝或裂口。

Tear (Fabric)

44.1047

A large rip in a fabric that is usually caused by excessive tension being applied during processing or caused by a weakness in the fabric.

撕裂（织物）

44.1047

通常是由于加工过程中施加过大张力或织物强度低所造成的大裂口。

Temperature Delta (ΔT)	75.1672	接线柱	37.1051
The range between upper and lower temperature limits as measured on a product (component, board or assembly) in a reflow heating process or end use environment.		用来形成电气连接的金属装置。(又见“焊接接线柱，Solder Terminal”。)	
温度差 (ΔT)	75.1672	Terminal Area	22.1052
在回流加热过程或者实际使用环境中，在一个产品(元器件，板或组件)上量测得的较高温度与较低温度之间的范围。		See “Land.”	
Temperature Leveling	75.2079	终端区域	22.1052
A process to make the temperature difference across a board as uniform as possible by preheating the board, or through the heating and melting of solder used in component attachment.		见“连接盘，Land”。	
温度均匀化	75.2079	Terminal Clearance Hole	22.1053
通过预热板子或加热及熔化连接元器件所用焊料，使一块板子的温度尽可能一致的过程。		See “Access Hole.”	
Temperature Profile	75.1048	终端隔离孔	22.1053
The depiction of the temperature that a selected point traverses as it passes through the reflow process.		见“余隙孔，Access Hole”。	
温度曲线	75.1048	Terminal Hole	22.1054
选定点通过再流工艺时所经历温度的描述。		See “Component Hole.”	
Temperature, Reflow, Maximum	70.2080	终端孔	22.1054
The maximum temperature that any portion of a product will reach during the reflow soldering process.		见“元器件孔，Component Hole”。	
最高再流焊温度	70.2080	Terminal Pad	22.1055
再流焊工艺期间产品任意一个部分将达到的最高温度。		See “Land.”	
Tenter Frame	44.1049	终端焊盘	22.1055
A machine test maintains fabric width during drying by means of clips running on two parallel endless chains.		见“连接盘，Land”。	
拉幅机	44.1049	Terminations	22.1773
利用在两个平行的循环链条上运行的布铗保持干燥期间织物宽度的机器。		To connect a line to a terminal, distributing frame, switch or matrix.	
Tenting	52.1050	端子	22.1773
See “Via, Tented.”		其可实现导线与接线柱、分布框架、开关或矩阵转换电路的连接。	
掩蔽	52.1050	Terpenes	76.1774
见“导通孔，掩蔽，Via, Tented。”		(Turpentine.) A solvent used in cleaning electrical assemblies.	
Terminal	37.1051	萜烯	76.1774
A metallic device that is used for making electrical connections. (See also “Solder Terminal.”)		用于清洗电子组件的溶剂(松节油)。	
Test Board		Test Board	92.1683
		A printed board or discrete-wiring board that is deemed to be suitable for determining the acceptability of a group of boards that were, or will be, produced with the same fabrication processes. (See also “Capability Test Board.”)	
测试板		测试板	92.1683
		被认为适合于确定用或将用相同加工工艺生产的一批板可接受性的印制板或分立线路板。(又见“能力测试板，Capability Test Board”。)	

Test Coupon	92.1820	Test Set	92.1062
A portion of quality conformance test circuitry that is used for a specific test, or group of related tests, in order to determine the acceptability of a product.		The unique combination of test programs and test fixtures that control the unit under test.	
附连测试板	92.1820	测试装置	92.1062
用于特定测试或一组相关测试的质量符合性测试电路的一部分以确定产品的可接受性。		控制待测试单元的测试程序及测试夹具的特定组合。	
Test Coupon Set	92.2081	Test Step	92.1063
A complement of test coupons that are comprised of various test coupon types, each of which is designed for a specific test, that are all made in the same manufacturing lot.		The application of a single input vector.	
附连测试板组	92.2081	测试步骤	92.1063
由各种类型的附连测试板组成的全套附连测试板，每一个附连测试板都为特定的测试所设计并且在相同的生产批中制造。		单一输入向量的应用。	
Test Language	92.1057	Testing Personnel	92.1056
A high-level language used to write a test program.		Those individuals that test products for the purpose of ascertaining the conformance of a product to applicable specifications.	
测试语言	92.1057	测试人员	92.1056
用于编写测试程序的高级语言。		为了判定产品与适用规范符合性的目的而测试产品的那些人员。	
Test Master	92.1058	Tetrafunctional Resins	75.1064
Artwork that contains specified anomalies or degrees of defect that an inspection or testing system should be capable of detecting.		Materials that have four reactive groups per molecule.	
测试原版	92.1058	四官能团树脂	75.1064
包含一个检验或测试系统能够检测出的特定差异或缺陷程度的照相底图。		每个分子具有四个活性基团的材料。	
Test Pattern	92.1059	Thermal Coefficient of Expansion (TCE)	21.1065
A pattern that is used for inspection or testing purposes.		See “Coefficient of Thermal Expansion (CTE).”	
测试图形	92.1059	膨胀热系数 (TCE)	21.1065
用于检验或测试的图形。		见“热膨胀系数 (CTE), Coefficient of Thermal Expansion (CTE)”。	
Test Point	92.1060	Thermal Conductivity	20.1066
A special point of access to an electrical circuit that is used for electrical testing purposes.		The property of a material that describes the rate at which heat will be conducted through a unit area of the material for a given driving force.	
测试点	92.1060	热导率	20.1066
连接电气电路的特定点，用作电气测试。		材料的一种性能，描述在给定驱动力下该材料单位面积传热的速率。	
Test Program	92.1061	Thermal Cure	40.2082
The set of instructions to a tester that controls the unit under test.		A chemical reaction using heat energy that hardens organic substances such as adhesives and coating materials.	
测试程序	92.1061	热固化	40.2082
指挥控制待测单元测试仪的一组指令。		采用热能使有机物质如粘合剂和涂层材料固化的化学反应。	

Thermal Expansion **21.2083**
Expansion of the material when subjected to a temperature increase.

热膨胀 **21.2083**
温度升高时材料的膨胀。

Thermal Mismatch (Expansion) **20.1067**
The absolute difference between the thermal expansion of two materials that are bonded together. (See also "Coefficient of Thermal Expansion (CTE).")

热膨胀不匹配 **20.1067**
两种接合在一起的材料之间热膨胀的绝对差。(又见“热膨胀系数，Coefficient of Thermal Expansion (CTE)”。)

Thermal Mismatch **21.2084**
Difference in coefficients of thermal expansion of materials that are bonded together.

热失配 **21.2084**
连接在一起的材料的热膨胀系数有差异。

Thermal Plane **22.2085**
See "Heatsink Plane."

散热层 **22.2085**
见“散热层，Heatsink Plane”。

Thermal Relief **22.1068**
A designed partial clearance around holes that are subject to soldering in large conductor areas (ground planes, voltage planes, thermal planes, etc.). Relief is required to provide thermal resistance during the soldering process. (See Figure T-2.)

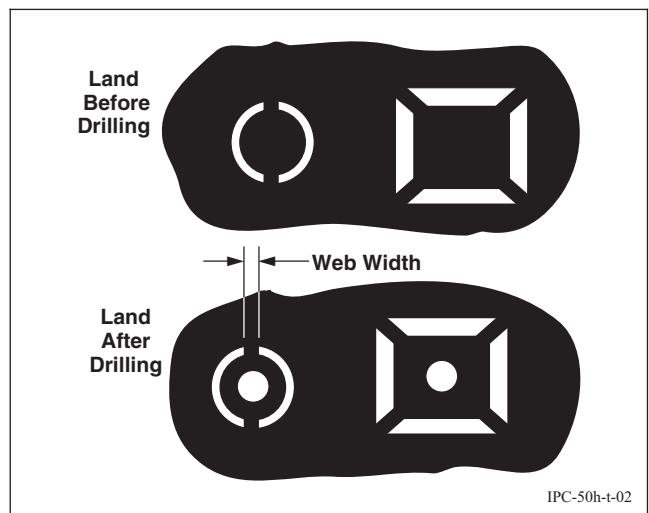
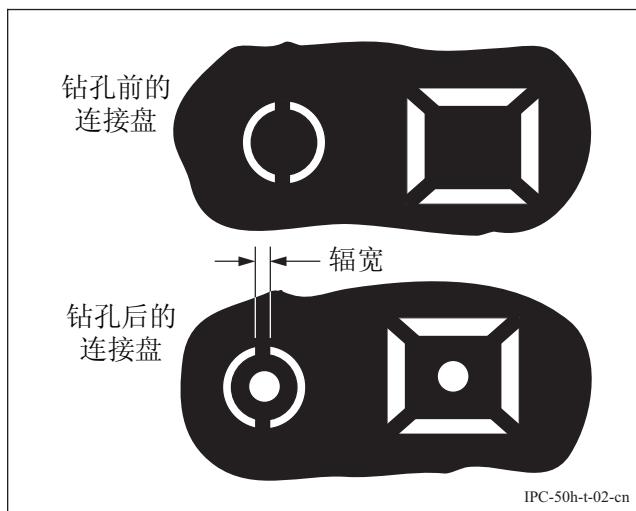


Figure T-2 Thermal Relief

热隔离 **22.1068**
在经受焊接的大导体面（接地层、电源层、散热层等）的孔周围所设计的局部间隙。在焊接过程中热隔离起到阻止热量流失的作用。(见图T-2。)



图T-2 热隔离

Thermal Resistance **21.2086**
The resistance of a material to the passage of thermal energy usually measure in °C/W.

热阻 **21.2086**
材料对热能传递的阻抗，测量单位通常为°C/W。

Thermal Shock Resistance **21.2087**
A measure of how well a material stands up to rapid changes in temperature.

耐热冲击 **21.2087**
材料承受温度快速变化的能力的量度。

Thermal Shock Test **92.2088**
One of the environmental tests to check the property changes of a product or material caused by rapid heating and cooling.

热冲击测试 **92.2088**
检查由于快速加热和冷却而导致的产品或者材料特性变化的一种环境测试。

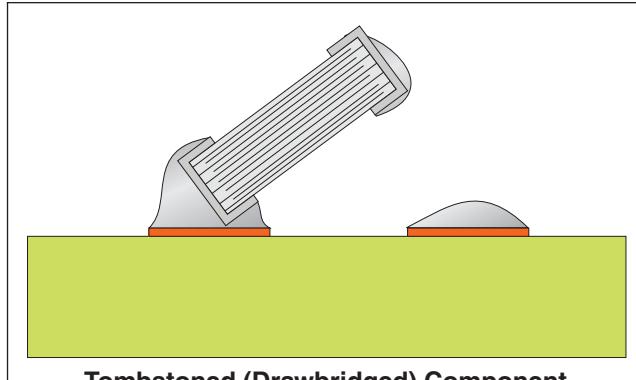
Thermal Shunt **30.1069**
See "Heatsink."

热分流 **30.1069**
见“散热片，Heatsink”。

Thermal Sonic Bonding **74.2089**
The bonding of wires to metal pads on an integrated circuit by means of heat and ultrasonic scrubbing of wire into the pad to create a metallurgic bond.

热超声键合	74.2089	热塑性塑料	40.1071
利用热和超声刮擦焊盘内的金属线，使金属线与集成电路上的金属焊盘键合而形成金属键。			
Thermal Zone	50.1542	Thermoset	40.1544
A metal-integrity evaluation zone that extends a specified distance beyond the ends of the lands in a microsection of a vertical portion of a plated-through hole. (Unless otherwise specified, the extended distance is 0.08 mm [0.003 in].)			
受热区	50.1542	热固性塑料	
金属完整性评价区，即从镀覆孔纵向横截面内的连接盘末端向外延伸规定距离。(除非另有规定，延伸距离为0.08mm[0.003in]。)			40.1544
Thermocompression Bonding	74.1543	暴露于高温下时会发生化学反应的一种塑料，使其具有相对不熔或交联的状态，在后续加热时不会软化或再成形。	
The joining together of two materials without an intermediate material by the application of pressure and heat in the absence of electrical current.			
热压键合	74.1543	Thermosonic Bonding	74.1072
无需中间材料及电流，通过施加压力和热量将两种材料结合在一起。			
Thermode	75.1070	利用热压和超声波键合形成的端子。	
A contact heating element that is used to generate reflow soldering heat.			
热电极	75.1070	Thick Film	45.1545
用于产生再流焊接热量的接触式加热元器件。			
Thermode Temperature Gradient	75.2090	A film, greater than 0.1 mm [0.004 in] thick, deposited by screen printing and subsequently fired at high temperatures in order to fuse it into its final functional form.	
The temperature difference between one end of a thermode and the other after steady-state temperatures are attained.			
热电极温度梯度	75.2090	厚膜	45.1545
达到恒定温度后，热电极一端与另一端之间的温度差别。			
Thermode Temperature Variation	75.2091	厚度大于0.1mm[0.004in]的膜，通过丝印沉积，然后在高温下烧结，以熔合达到最后的功能形态。	
The maximum difference of temperatures of a point on a controlled-temperature thermode over a period of time.			
热电极温度变异	75.2091	Thick-Film Circuit	83.1073
一个周期时间内，温控热电极上一个点温度的最大差别。			
Thermoplastic	40.1071	A microcircuit in which passive components of a ceramic-metal composition are formed on base material by screening and firing.	
A plastic that can be repeatedly softened and reshaped, without any significant change in inherent properties, by exposure to heat and hardened by cooling.			
Thick-Film Hybrid Circuit	83.1074	厚膜电路	83.1073
A hybrid circuit with thick-film components and interconnections.			
Thick-Film Network	83.1075	厚膜混合电路	83.1074
A hybrid circuit comprised only of thick-film components and interconnections.			
Thick-Film Network	83.1075	厚膜网络	83.1075
仅由厚膜元器件及互连组成的混合电路。			

Thin Film	45.1079	Thinner (Liquid)	76.1081
A film, less than 0.1 mm [0.004 in] thick, deposited by accretion process, such as vacuum or pyrolytic deposition.		A nonactivated solvent or solvent system that is used to replace evaporated solvent and to reduce the solids content of another substance.	
薄膜	45.1079	稀释剂（液体）	76.1081
厚度小于0.1mm[0.004in]的膜，由加积工艺如真空或热解沉积法沉积形成。		非活性溶剂或溶剂系统，用于补充蒸发的溶剂和减少另一种物质中的固体含量。	
Thin-Film Hybrid Circuit	83.1076	Thixotropic Ratio	49.1082
A hybrid circuit with thin-film components and interconnections. (See also "Hybrid Circuit.")		An indication of thixotropy in the form of the ratio of viscosities measured at two different shear rates.	
薄膜混合电路	83.1076	触变率	49.1082
具有薄膜元器件及互连的混合电路。(又见“混合电路， Hybrid Circuit”。)		以在两种不同的剪切速率下测得的粘性之比表示触变性的指标。	
Thin-Film Integrated Circuit	83.1077	Thixotropy	49.1083
A hybrid integrated circuit comprised only of thin-film components and interconnections. (See also "Hybrid Integrated Circuit.")		A property of a substance, e.g., an adhesive system, that allows it to get thinner upon agitation and thicker upon subsequent rest.	
薄膜集成电路	83.1077	触变性	49.1083
仅由薄膜元器件及互连组成的混合集成电路。(又见“混合集成电路， Hybrid Integrated Circuit”。)		物质的一种特性，如粘合剂系统，在搅动时变得较稀，而在停止时变得较稠。	
Thin-Film Network	83.1078	Three-Layer Carrier Tape	36.1546
A hybrid circuit comprised only of thin-film components and interconnections.		The carrier for conductors used in tape-automated bonding that consists of a dielectric layer, an adhesive, and a etched metal-foil conductor layer. (See also "Multilayer Carrier Tape," "Single-Layer Carrier Tape," and "Two-Layer Carrier Tape.")	
薄膜网络	83.1078	三层载带	36.1546
仅由薄膜元器件及互连组成的混合电路。		载带自动键合中所用导体的载体，由绝缘层、粘合层和蚀刻的金属箔导体层组成。(又见“多层载带， Multilayer Carrier Tape”、“单层载带， Single-Layer Carrier Tape”和“双层载带， Two-Layer Carrier Tape”。)	
Thin Foil	45.1080	Threshold	21.1084
A metal sheet that is less than 0.02 mm [0.0007 in] thick.		The magnitude of intensity that delineates that a signal is representative of a changed state.	
薄金属箔	45.1080	阀值	21.1084
厚度小于0.02mm[0.0007in]的金属薄片。		描述代表变化状态的信号强度的幅度。	
Thin Quad Flat Pack (TQFP)	33.2092	Through Connection	22.2094
A surface mount family of integrated circuit packages with a thin polymer body.		The electrical connection to connect conductor patterns on the front side through to the back side of a printed board. See "Interfacial Connection."	
薄方形扁平封装 (TQFP)	33.2092		
具有薄聚合体的表面贴装系列集成电路封装。			
Thin Small Outline Package (TSOP)	33.2093		
A package that has the same features as the SOP package except that its thickness is reduced to 0.8 -1.2 mm [0.0315 - 0.0472 in].			
薄小外形封装 (TSOP)	33.2093		
具有与SOP封装相同特征，但其厚度减少至0.8mm-1.2mm[0.0315in-0.0472in]的封装。			

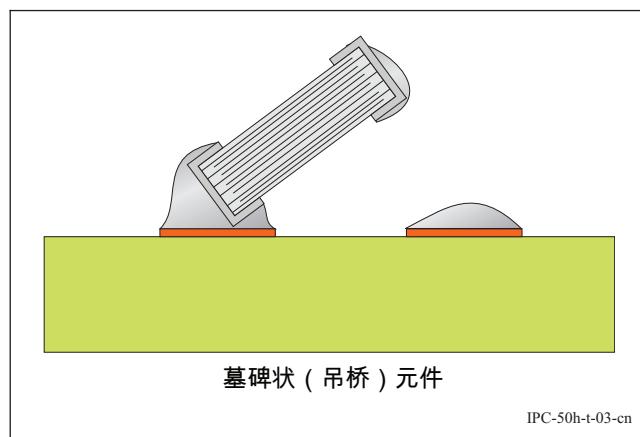
贯穿连接	22.2094	Titrometry	92.1090
印制板两面导电图形的电气连接。(又见“界面连接, Interfacial Connection”。)		See “Volumetric Analysis.”	
Through-Hole Mounting	72.1085	滴定分析	92.1090
See ‘Through-Hole Technology (THT).’		见“容量分析, Volumetric Analysis”。	
通孔插装	72.1085	Tolerance	26.1091
见“通孔组装技术, Through-Hole Technology (THT)”。		The total amount by which a specific dimension is permitted to vary.	
Through-Hole Technology (THT)	50.2095	公差	26.1091
The electrical connection of components to a conductive pattern by the use of component holes.		标定尺寸允许偏离的总量。	
通孔组装技术 (THT)	50.2095	Tolerance, Statistical	26.2097
利用元器件孔实现元器件与导电图形的电气连接。		A tolerance that is based on statistical models.	
Through Migration	90.1087	统计公差	26.2097
See “Dendritic Migration.”		基于统计模式的公差。	
穿透迁移	90.1087	Toleranced Dimension	26.1092
见“树枝状迁移, Dendritic Migration”。		A dimension with a directly applied tolerance.	
Throwing Power	53.2096	带公差尺寸	26.1092
The degree to which a given solution uniformly deposits the plating on any configuration of hole or circuitry pattern and panel shape or thickness.		直接加入了公差的尺寸。	
布散能力	53.2096	Tombstoned Component	73.1093
给定溶液在任何形状的孔或电路图形及任何形状或厚度在制板上均匀沉积镀层的能力。		A defect condition whereby a leadless device has only one of its metallized terminations soldered to a land and has the other metallized termination elevated above and not soldered to its land. (See Figure T-3.)	
Tie Bar	53.1088		
See “Plating Bar.”		Tombstoned (Drawbridged) Component	
分流线	53.1088		
见“电镀工艺导线, Plating Bar”。			
Tie-In Tab	62.2138		
A piece of flexible or rigid-flex material left on the board in the form of a tab which continues to hold the finished board within the panel during routing of the flexible material.			
连接条	62.2138		
铣加工挠性材料时, 以小片形式留在板子上的一片挠性或刚挠材料, 以使成品板留在在制板上。			
Tinning	71.1089	Figure T-3 Tombstoned Component	
The application of molten solder to a basis metal in order to increase its solderability.			
上锡	71.1089	墓碑状元器件	73.1093
将熔融焊料涂敷到金属基材上以增加其可焊性。		一种元器件组装缺陷状况, 无引线元器件只有一个金属化端接点焊接在其焊盘上, 另一个金属化端接点却抬高, 没有焊接在其焊盘上(见图T-3)。	

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Figure T-3 Tombstoned Component

墓碑状元器件

一种元器件组装缺陷状况, 无引线元器件只有一个金属化端接点焊接在其焊盘上, 另一个金属化端接点却抬高, 没有焊接在其焊盘上(见图T-3)。



图T-3 墓碑状元件

Tooling Feature 22.1547

A physical feature that is used exclusively to position a printed board or panel during a fabrication, assembly or testing process. (See also “Locating Edge,” “Locating Edge Marker,” “Locating Notch,” “Locating Slot,” and “Tooling Hole.”)

定位要素 22.1547

在制作、组装、测试过程中专门用来定位线路板或在制板的物理要素。(又见“定位边, Locating Edge”、“定位边标记, Locating Edge Marker”、“定位切口, Locating Notch”、“定位槽, Locating Slot”和“Tooling Hole, 定位孔”。)

Tooling Hole 22.1094

A tooling feature in the form of a hole in a printed board or fabrication panel.

定位孔 22.1094

印制板或在制板中孔形式的定位要素。

Torsional Strength 74.1095

The torque required to separate adhesive-bonded (and cured) materials and/or components. (See also “Lap Shear Strength” and “Shear Strength.”)

抗扭强度 74.1095

分离用粘合剂粘接(已固化)的材料和/或元器件所需要的扭矩。(又见“搭接剪切强度, Lap Shear Strength”和“剪切强度, Shear Strength”。)

Touch-Up 92.1097

The identification and elimination of defects in a product.

修版 92.1097

识别并消除产品中的缺陷。

Trace 22.1098

See “Conductor.”

轨迹

22.1098

见“导体, Conductor”。

Traceability

16.2174

The tracking of the manufacturer at a minimum or the manufacturing process of each element used in a unit.

可追溯性

16.2174

对最低一级制造商或一个部件中所用每种元素的制造工艺的追溯。

Track

22.1099

See “Conductor.”

路径

22.1099

见“导体, Conductor”。

Tracking Resistance

92.2098

See “Arc Resistance.”

耐电痕性

92.2098

见“耐电弧性, Arc Resistance”。

Transfer Adhesive (Pressure Sensitive Tape)

75.2099

An unsupported pressure sensitive adhesive coated onto a release treated carrier. The adhesive is then applied to the desired substrate and the release liner removed before assembly.

转移粘接剂(压敏胶带)

75.2099

在处理过的脱模载体上涂覆无支撑压敏粘接剂, 然后将粘接剂施加到所需的基板上, 再在组装之前去除可剥离衬底。

Transfer-Bump Tape Automated Bonding

74.1100

Tape automated bonding that uses discrete bumps between the die lands and carrier tape to facilitate inner-lead bonding.

转移凸点载带自动键合

74.1100

为便于内部引线键合, 在芯片连接盘与载带之间采用分离凸点的载带自动键合。

Transfer Soldering

75.1101

The use of a soldering iron to transfer a measured amount of solder, in the form of a ball, chip, or disc, to a solder connection.

转移焊接

75.1101

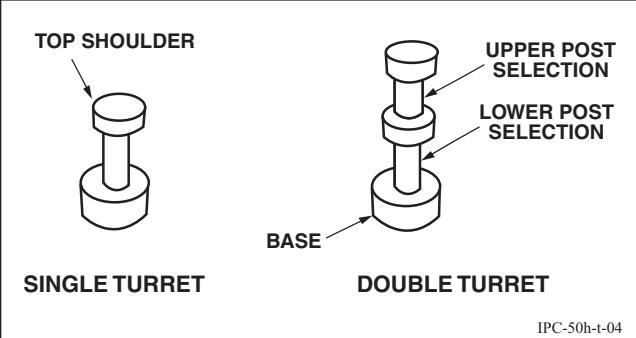
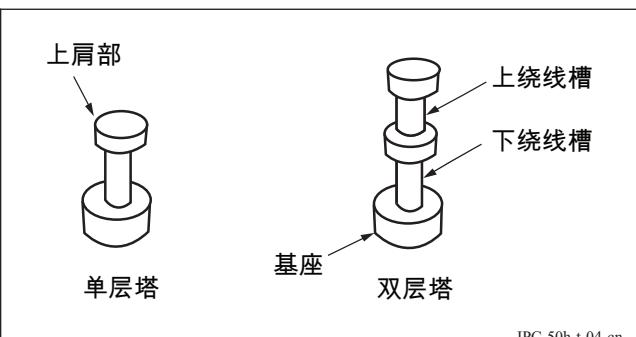
用烙铁将球形、片状或圆片状等定量的焊料转移至焊接连接。

Transmission Cable

21.1102

Two or more transmission lines in the form of an interconnection-wiring cable.

传输电缆	21.1102	Treatment Transfer	92.1548
两根以上的传输线形成的一种互连电缆。		The transfer of copper-foil treatment to a base material as indicated by the presence of black, brown or red streaks after the copper has been removed by etching.	
Transmission Line	21.1103	处理物转移	92.1548
A device for guiding or conducting electromagnetic energy from one point to another. A transmission line consists of two or more parallel conductors each separated by a dielectric. (See also "Balanced Transmission Line," "Microstrip" "Stripline," and "Unbalanced Transmission Line.")		铜箔处理物处转移到基材上，铜箔被蚀刻去除后显示出黑色、棕色或红色的条纹。	
传输线	21.1103	Treatment Transfer (Base Materials)	44.2104
将电磁能从一点传导到另一点的装置。传输线由两根以上的通过电介质隔离的平行导体组成。(见“平衡传输线，Balanced Transmission Line”、“微带，Microstrip”、“带状线，Stripline”、“非平衡传输线，Unbalanced Transmission Line”。)		A dark streak or pattern of streaks within the core butter coat that is formed by the transfer of oxide treatment from the copper foil that may be linear, with the grain of the foil or crescent shaped (due to handling of the foil) and very occasionally of a fine 50 mm [1.97 in] regularly spaced streaky pattern (due to specially configured rollers in the foil treating process).	
Transmissivity	24.2101	处理物转移 (基材)	44.2104
The percentage of incident energy that is transmitted into a material.		由于从铜箔上转移处理氧化物而形成的芯板涂层内的暗条纹或图形，可能为铜箔颗粒状或月牙状(由铜箔处理导致)，偶尔出现规则间距50mm[1.97in]的条纹图形(由铜箔处理过程中特殊结构的滚筒导致)。	
透射率	24.2101	Treeing	53.1549
发射到材料内的入射能量百分比。		A dendritic-type of plating growth that extends onto the surface that is adjacent to the edge of a conductive pattern. (This is normally caused by excessive plating current.)	
Transmittance	24.1104	树枝状结晶	53.1549
The ratio of the amount of light that is transmitted through an object or material to the quantity of light that is incident upon it.		镀层在相邻导电图形边缘的表面上镀长长出树枝状结晶。(通常是由于电镀电流过大造成。)	
透光率	24.1104	Tri-State	21.1105
透过物体或材料的光量与照射在其上的光量之比。		A high-impedance state of an electronic device that effectively disconnects the device output from all other circuitry.	
Tray	70.2102	三态	21.1105
A pallet shape that contains SMD components in a form that makes it easy to feed them to an automatic component mounting machine.		电子器件的高阻抗状态，可以有效地切断该器件对全部其他电路的输出。	
盘	70.2102	Trim Lines (Pattern)	22.1106
用来盛装SMD元器件的托盘，其形式便于将元器件供给自动元器件贴装机。		Lines that define the borders of a pattern. (See also "Corner Marks.")	
Treater Dirt (Base Materials)	44.2103	外形线 (图形)	22.1106
An inclusion which appears to be or is confirmed by analysis to be a type of resin particle which has been caught within the structure of the impregnation treater, to be picked up by a subsequent use of the treater; usually in some form of carbonization due to excessive exposure to the treaters heat.		标定图形边界的线。(又见“角标，Corner Marks”。)	
浸胶异物 (基材)	44.2103	Trim Lines (Printed Board)	22.1550
被浸胶槽的构件所挡住而形成的似乎是或经分析确认是树脂粒子外来夹杂物，由于过度暴露于处理器的热量下通常以碳化物的形式存在，在后续使用浸胶槽时，要先去除这些异物。		Lines that delineate the border of a printed board. (See also "Corner Marks.")	

外形线（印制板）	22.1550	Tunnel Void, (Base Materials)	96.2032
勾划出线路板边界的线。（又见“角标，Corner Marks”。）		A thin vein or fine white line that appears to be within the fiber bundles of the reinforcement, usually a narrow pocket formed by poor nonwetting of a small area of the fiber bundle by the resin. Severe circumstances may result in “silver streaks” seen in the reinforcement.	
Trimming	77.1108	管状空洞（基材）	96.2032
The cutting of a film component by a laser beam or abrasive jet in order to modify its value.		增强材料纤维束中呈现的细条纹或细白线，通常为树脂没有润湿小范围的纤维束而造成的窄槽。状况严重时可能会导致在增强材料中看到“银条纹”。	
修整	77.1108	Turnkey System	11.1114
用激光束或磨料射流切割膜元器件以修整它的值。		A self-contained hardware and software system that perform a specific task.	
Trimming Notch	77.1109	总成系统	11.1114
See “Kerf.”		可执行特殊任务的独立的硬件和软件系统。	
修整槽口	77.1109	Turret Solder Terminal	37.1552
见“切口，Kerf”。		A round post-type stud (stand-off) solder terminal with a groove or grooves around which one or more wires are wrapped prior to soldering. (See Figure T-4.)	
True Position	22.1110		
The theoretically-exact location for a feature or hole that is established by basic dimensions.		Figure T-4 Turret Solder Terminal	IPC-50h-t-04
准确位置	22.1110	塔形焊接接线柱	37.1552
由基本尺寸建立的要素或孔的理论准确位置。		A round post-type stud (stand-off) solder terminal with a groove or grooves around which one or more wires are wrapped prior to soldering. (See Figure T-4.)	
True Position Tolerance	22.1111		
The total permissible deviation from a true position.		图T-4 塔形焊接接线柱	IPC-50h-t-04-cn
准确位置公差	22.1111		
准确位置所允许的总偏差。			
Trumeter	44.1112		
A device used to accurately measure yardage passing a specific point of reference.			
精度测量计	44.1112		
用于精确测量通过一个特定参考点的尺码的装置。			
Truth-Table Testing	21.1551		
The application of electrical signals in accordance with a prescribed logic matrix pattern that indicates the outputs that should result from a given pattern of inputs.			
真值表测试	21.1551		
根据表示应来自于输入的给定图形的输出的规定逻辑矩阵图形采用电气信号。			
Tuberculation	76.1113		
The formation of localized corrosion products that are scattered over a surface in the form of knob-like mounds.			
结节	76.1113		
产品受局部腐蚀在表面散开形成的节状物。			

Twist	60.1553	U
The deformation of a rectangular sheet, panel or printed board, that occurs parallel to a diagonal across its surface, such that one of the corners of the sheet is not in the plane that contains the other three corners.		
扭曲	60.1553	
矩形薄片、在制板或印制板的变形，其与横跨其表面的对角线平行，板的三个角与平面接触，而另一个角不在该平面内。		
Two-Layer Carrier Tape	36.1554	
The carrier for conductors used in tape-automated bonding that consists of a dielectric layer with a layer of plated/etched conductors. (See also "Multilayer Carrier Tape," "Single-Layer Carrier Tape," and "Three-Layer Carrier Tape.")		
双层载带	36.1554	
用于载带自动键合的导体载体，由绝缘层和电镀/蚀刻导体层组成。(又见“多层载带， Multilayer Carrier Tape”、“单层载带， Single-Layer Carrier Tape”和“三层载带， Three-Layer Carrier Tape”。)		
Two-Piece Contact	37.1115	
A type of discrete connector contact that mates with another discrete formed-metal connector contact. (See also "Edge-Board Contact.")		
两件式接触件	37.1115	
一种分立连接器接触件，可与另一个分立金属成形连接器接触件配接。(又见“板边接触片， Edge-Board Contact”。)		
Two-Sided Board	60.1116	
See "Double-Sided Board."		
两面板	60.1116	
见“双面板， Double-Sided Board”。		
Type I Error	91.1117	
The rejection of a hypothesis that is true.		
I类错误	91.1117	
原假设为真时而被拒绝。		
Type II Error	94.1118	
The accepting of a hypothesis that is false.		
II类错误	94.1118	
原假设为假时而被接受。		
Ultra-Fine Pitch Technology	80.2105	
A surface-mount assembly technology with component terminations on centers less than or equal to 0.40 mm.		
超细间距技术	80.2105	
元器件焊端中心距小于或等于0.40mm的表面贴装技术。		
Ultrasonic Bond	75.2106	
A bond formed when a wire is pressed against the bonding pad and the pressing mechanism is ultrasonically vibrated at high frequency (above 10kHz).		
超声键合	75.2106	
采用超声高频(10 kHz以上)振动压合装置将金属线压在键合盘上而形成的键合。		
Ultrasonic Bonding	74.1119	
A termination process that uses ultrasonic-frequency vibration energy and pressure to make the joint.		
超声键合	74.1119	
采用超声频率振动能和压力形成接合点的端接工艺。		
Ultrasonic Cleaning	76.1120	
Immersion cleaning that is done by passing high-frequency sound waves through a cleaning medium to cause micro agitation.		
超声清洗	76.1120	
由高频声波通过清洗媒介产生微振动而进行的浸渍清洗。		
Ultrasonic Soldering	75.1121	
Fluxless soldering wherein molten solder is vibrated at ultrasonic frequencies while making the joint.		
超声焊接	75.1121	
熔融焊料在超声波频率下振动形成焊点的无助焊剂焊接。		
Ultraviolet Cure	40.2107	
A cure of material by exposure to ultraviolet light.		
紫外线固化	40.2107	
通过暴露于紫外光下实现材料的固化。		
Unbalanced Transmission Line	21.1556	
A transmission line that has distributed inductance, capacitance, resistance, and conductance elements that are not equally distributed between its conductors.		

非平衡传输线	21.1556	蚀刻剂或掩模材料侧蚀	54.2109
在其导体之间具有不均匀分布的电感、电容、电阻和电导元器件的传输线。		由于蚀刻造成导电图形侧壁的凹槽或凹陷。	
Uncased Device	35.1122	Underplate	53.2110
A component without a package.		The plating made as a base of a surface over-plating usually required as a barrier to prevent leaching of two dissimilar metals into one another.	
无外壳器件	35.1122	基底镀层	53.2110
没有封装的器件。		作为表面镀层基底的镀层，通常作为防止两种不同金属相互浸析的隔离层。	
Unconditional Test	92.1123	Underwriters Symbol	94.1126
A test without limitations or restrictions on test mode, test time, etc.		A logotype that denotes that a product has been recognized (accepted) by Underwriters Laboratories, Inc. (UL).	
无条件测试	92.1123	安全检测标记	94.1126
对测试模式、测试时间等没有限制或约束的测试。		用来表示产品已经被美国安全检测实验室公司认可（验收）的标记。	
Under Bump Metallization	35.2108	Unfil	44.1127
The solder-wettable terminal area that defines the metallurgy size and area of a soldered connection, such as a solder bump.		A device attached to the loom which automatically winds yarn onto quills from yarn packages and maintains a supply of quills for the shuttle.	
凸点底部金属化	35.2108	纡子	44.1127
界定了金属化尺寸和焊接连接区域的焊料可湿润端子区域，如焊料凸点。		安装在织机上的装置，可自动将纱线从纱线包绕至线轴上并保证将成批纱线提供给织梭。	
Undercut, After Fabrication	92.1124	Unilateral Tolerance	26.2111
The distance, measured parallel to the surface of a printed board, from the outer edge of a conductor (excluding over-plating and coatings) to the maximum point of the indentation on the same edge of the conductor. (See also "Undercut, In Process" and Figure O-2.)		A tolerance in which variation is permitted in one direction only from the specified dimension.	
加工后侧蚀	92.1124	单向公差	26.2111
从导体一侧外边缘（不包括外镀层和涂层）到同一侧导体的最大凹入点与板面平行的间隔距离。（又见“制程中侧蚀，Undercut, In Process”及图O-2。）		只允许规定的尺寸单方向变化的公差。	
Undercut, In Process	92.1125	Unload Time	92.1128
The distance, measured parallel to the surface of a printed board, from the outer edge of a conductor (including etch resist) to the maximum point of the indentation on the same edge of the conductor. (See also "Undercut, After Fabrication.")		The time required to remove a unit from the evaluation equipment, to collect the evaluation data, and to make the system ready for the next unit.	
制程中侧蚀	92.1125	卸载时间	92.1128
从导体一侧外边缘（包括抗蚀刻剂）到同一侧导体的最大凹入点与板面平行的间隔距离。（又见“加工后侧蚀，Undercut, After Fabrication”及图O-2。）		从评定设备上取下一个单元、收集评定数据并使系统准备好测试下一个单元所需要的时间。	
Undercut, Resist or Masking Material	54.2109	Unsupported Hole	22.1129
A groove or a hollow formed on the side wall of a conductor pattern caused by etching.		A hole in a printed board that does not contain plating or other type of conductive reinforcement.	
非支撑孔	22.1129	印制板上无镀层或其它类型导电增强材料的孔。	

Upload (Test)	92.1130	Vacuum Evaporation	53.1133
The ability of an analyzer to accept test program data from a host computer.		The deposition of a metal film onto a base material by evaporation techniques.	
加载 (测试)	92.1130	真空蒸镀	53.1133
分析仪从主机接受测试程序数据的能力。		在真空中通过蒸发技术在基材上沉积上一层金属膜。	
Usable Resolution	52.1131	Vacuum Head	73.1775
The smallest image and separation that can be produced, and subsequently processed, in a given emulsion or thickness of photoresist.		A handling instrument with a small vacuum cup which is used to pick up chip devices and other surface mounting devices.	
有效解像度	52.1131	真空头	73.1775
在给定的感光乳胶或光刻胶厚度中可产生并可被后续加工的最小图像及间隔。		用于拾取夹片器件和其它表面贴装元器件的处理工具。	
User	17.2112	Vapor Phase Reflow	75.2113
The individual, organization, company or agency responsible for the procurement of electrical/electronic hardware, and having the authority to define the class of equipment and any variation or restrictions (i.e., the originator/custodian of the contract detailing these requirements).		See "Vapor Phase Soldering."	
用户	17.2112	汽相再流	75.2113
负责采购电气/电子部件的个人、组织、公司、合同指定的管理机构或代理，他们有权确定设备级别，提出修改或限制。(也就是规定详细需求合同的制定者/管理者。)		见“汽相焊接， Vapor-Phase Soldering”。	
User Inspection Lot (Material)	91.1132	Vapor-Phase Soldering	75.1557
All of the material of the same type and, as far as practical, of the same type designation that is produced from the same equivalent batches or lots of constituent material under essentially the same conditions and that is offered for inspection at one time.		A reflow soldering method that is based on the exposure of the parts to be soldered to hot vapors of a liquid that has a boiling-point that is sufficiently high to melt the solder being used.	
用户检验批 (材料)	91.1132	汽相焊接	75.1557
供给一次检验的相同类型，更确切的说，相同批次下生产出的具有相同类标识的所有材料，或在本质上为相同条件下构成的材料批。		使被焊接部件暴露在其沸点足以使所用焊料融化的液体热蒸汽中的再流焊接方法。	
V		Vapor Recovery	76.2114
V-Groove	54.1960	The retrieving of working fluid vapors and aerosols from scavenged air and turning them into reusable working fluids.	
A mechanical method that removes a portion of the material outlining the board, in order to facilitate ease of breakout (removal) from the manufacturing or assembly panel. (See also "Breakaway.")		蒸气回收	76.2114
V形槽	54.1960	从废气中回收工作液蒸气及悬浮物并使其转变成可重新使用的工作液。	
为了使板子便于与在制板或组装板分离，去除板子外围部分材料的机械方法。(又见“分离， Breakaway”。)		Vapor, Saturated	75.2115
		A fluid in its vapor state when it is being heated at a constant pressure at or above its boiling temperature.	
Variables Data	91.1134	饱和蒸汽	75.2115
Quantitative data where measurements are used for analysis.		在恒定压力或在沸点以上时被加热的蒸汽状态下的液体。	
变量数据	91.1134	Variables Data	91.1134
测量用于分析的定量数据。		Quantitative data where measurements are used for analysis.	

Variance	91.1135	Vesicativity Ratio	92.1561
A measure of dispersion that is equal to the square of the average value of deviation from a mean value.		The ratio of the degrees of vesication produced by a specific mass of a substance to the degree of vesication produced by the same mass of sodium chloride under the same specific conditions.	
方差	91.1135	起泡率	92.1561
离散度的量度，标准离差的平方		在相同的特定条件下，一定量的某种物质产生疱的程度与同样量氯化钠产生疱的程度的比率。	
Vendor Inspection Lot (Material)	91.1558	Via	22.1562
All of the material of the same type that have been fabricated within a specified period of time using the same processing procedures and conditions that are offered for inspection at one time.		A plated-through hole that is used as an interlayer connection, but in which there is no intention to insert a component lead or other reinforcing material. (See also "Blind Via" and "Buried Via.")	
供应商检查批（材料）	91.1558	导通孔	22.1562
在规定时间周期内、采用同一制程工序和条件制作的用于同一次检查的所有相同型号的材料。		用于内层连接，但并不插装元器件引线或其他增强材料的镀通孔。(又见“盲孔，Blind Via”和“埋孔，Buried Via”。)	
Verification Time	91.1136	Via, Filled (Type V Via)	22.1828
The time required to determine an anomalies location, to evaluate it, and to classify it with respect to predefined criteria.		A via with material applied into the via targeting a full penetration and encapsulation of the hole.	
验证时间	91.1136	填塞导通孔（V型导通孔）	22.1828
确定一个异常的位置、对其进行评定及根据预先确定的标准对其分类所需要的时间。		将材料涂敷到导通孔内，旨在形成填满材料的孔。	
Very Large Scale Integration (VLSI)	30.1559	Via, Filled and Capped (Type VII Via)	22.1826
Integrated circuits with more than 80,000 transistors on a single die that are interconnected with conductors that are 1 micron or less in width.		A Type V via with a secondary metallized coating covering the via. The metallization is on both sides.	
甚大規模集成电路	30.1559	填塞及遮蔽导通孔（VII型导通孔）	22.1826
在单个芯片上的晶体管多于80,000个，通过宽度为1 μm或更细的导体实现其互连的集成电路。		用辅助金属化涂层覆盖导通孔的第5种导通孔。在孔的两面都有金属层。	
Vesical	92.1137	Via, Filled and Covered (Type VI Via)	22.1827
A blister formed as the result of vesication.		A Type V via with a secondary covering of material (liquid or dry film solder mask) applied over the via. It may be applied from either one side or both sides.	
疱	92.1137	填塞及覆盖导通孔（VI型导通孔）	22.1827
由于起疱导致的分层。		用辅助覆盖材料(液体或干膜阻焊膜)涂敷在导通孔上的第5种导通孔。可从任一面或双面涂敷孔。	
Vesication	92.1560	Via Planarization	22.2147
The formation of blisters at the interface between a semi-permeable polymer film coating another material caused by an osmotic effect from the interaction of water soluble matter with moisture. (See also "Measling".)		The process of removing metallization and/or organic materials associated with the surface of a via structure. It is most commonly employed in filled via fabrication. (See Figure V-1.)	
起疱	92.1560	导通孔平整化	22.2147
在一种半渗透性聚合膜与另一种材料的界面之间，由于有潮气的水溶性物质相互作用引发的渗透效应而形成的起泡。(又见“白斑，Measling”。)		去除导通孔表面的金属层和/或有机材料的过程。该方法常用于填充导通孔的制作。(见图V-1)。	

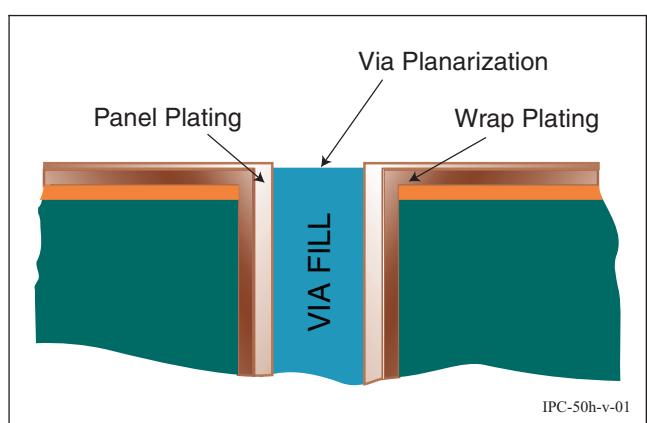
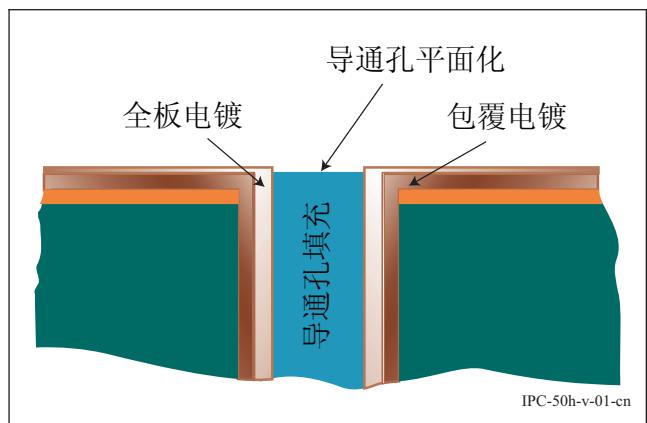


Figure V-1 Via Planarization



图V-1 导通孔平整化

Via, Plugged (Type III Via) 22.1830

A via with material applied allowing partial penetration into the via. It may be applied from either one side or both sides

堵塞导通孔 (III型导通孔) 22.1830

允许材料部分渗到孔内的导通孔。可从任一面或及双面施加材料。

Via, Plugged and Covered (Type IV Via) 22.1829

A Type III via with a secondary covering of material applied over the via. The secondary covering may be applied from either one side or both sides.

堵塞及覆盖导通孔 (IV型导通孔) 22.1829

用辅助材料覆盖在导通孔上的第3种导通孔。可从任一面或及双面施加材料。

Via Protection, Bumped 22.2081

Via protection where the hole plugging or fill material protrudes above the surface of the hole interface producing a convex shape.

导通孔保护, 凸面 22.2081

孔填塞或填充材料突出于孔表面形成凸面, 实现导通孔保护。

Via Protection, Dimpled

22.2082

Via protection where the hole plugging or fill material recedes below the hole interface producing a concave shape.

导通孔保护, 凹面

22.2082

孔填塞或填充材料凹陷于孔表面形成凹面, 实现导通孔保护。

Via Protection, Planarized

22.2083

Via protection where the excess hole plugging or fill material protruding above the hole interface has been removed by a process to produce a coplanar surface.

导通孔保护, 平整

22.2083

通过去除孔面上方多余的孔填塞或填充材料形成同一平面, 实现导通孔保护。

Via, Tented (Type I Via)

22.1832

A via with a mask material (typically dry film) applied bridging over the via wherein no additional materials are in the hole. It may be applied to one side or both.

掩蔽导通孔 (I型导通孔)

22.1832

用掩膜材料(通常为干膜)涂敷在孔上, 而孔内无附加材料的导通孔。可从任一面或及双面涂敷材料。

Via, Tented and Covered (Type II Via)

22.1831

A Type I via with a secondary covering of mask material applied over the tented via.

掩蔽及覆盖导通孔 (II型导通孔)

22.1831

用辅助覆盖掩膜材料覆盖在掩孔导通孔上的导通孔。

Virtual Condition

91.1138

The boundary generated by the collective effects of maximum/least material condition limits of size of a feature and any applicable geometric tolerances.

实效状态

91.1138

由要素的最大/最小实体状况极限及任何可适用几何公差的累计作用生成的边界。

Viscosity

46.1610

The internal friction of a fluid, caused by molecular attraction, which makes it resist a tendency to flow.

粘性

46.1610

由于分子相互吸引, 导致液体的内部摩擦, 可阻碍液体的流动。

Visible Light (Band)

21.2118

Electromagnetic radiation that occurs at wavelengths between 0.39 and 0.78 microns.

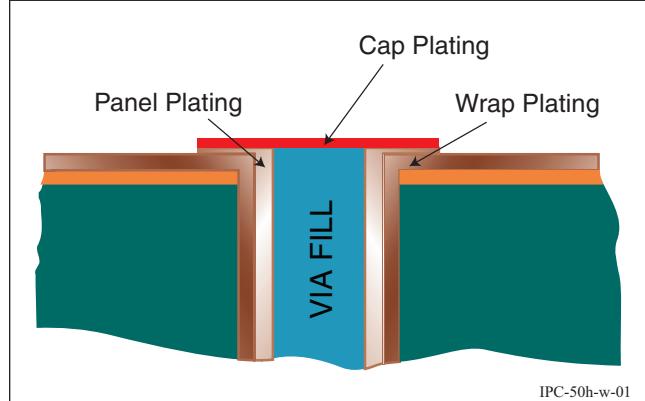
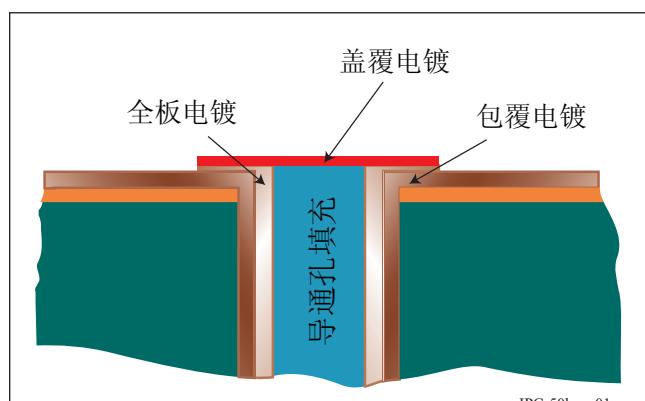
可见光 (波段)	21.2118	Volume Ratio (Composite)	41.1142
波长为0.39到0.78微米时发生的电磁辐射。		The proportional thickness of one component of a composite material to the total thickness of the composite.	
Visual Examination	92.1139	体积比 (复合材料)	41.1142
The qualitative observation of physical characteristics with the unaided eye or within stipulated levels of magnification.		复合材料一种组分的厚度与复合材料总厚度之比。	
目检	92.1139	Volume Resistivity	21.1143
用肉眼或按规定放大倍数对物理特征进行定性观察。		The ratio of the electrical potential gradient parallel to the current in a material to the current density, expressed in Megohm-meters.	
Void	90.1140	体积电阻率	21.1143
The absence of any substances in a localized area.		平行于材料中电流的电位梯度与电流密度之比, 以兆欧米表示。	
空洞	90.1140	Volumetric Analysis	92.1144
局部区域内缺少物质。		The measurement of the volume of solution consumed in a titration process.	
Voids (Bar Code)	70.2119	体积分析	92.1144
In bar code symbols, missing ink coverage; generally the width of the voids is more critical than the height.		在滴定过程中所消耗的溶液体积的量度。	
脱墨 (条码)	70.2119	W	
条码符号中缺少油墨覆盖, 通常脱墨宽度比高度更加重要。			
Voids (Base Materials)	96.2120	Wafer	35.1145
Circular pockets within the resinous area of the laminate, usually formed by entrapped air or volatiles; usually at or near the surface of the laminate.		A thin slice of semiconductor crystal ingot that is used as a base material.	
空洞 (基材)	96.2120	晶圆	35.1145
层压板内树脂区域内的圆形空穴, 通常是由于挥发物中截留的空气所形成, 一般位于层压板表面或表面附近。		用于基础材料的半导体单晶薄片。	
Voltage Plane	22.1563	Wafer Level Package (WLP)	35.2154
A conductor layer, or portion thereof, that serves as a common voltage source at other than ground potential for an electrical circuit, shielding, or heat sinking. (See also "Ground Plane" and "Signal Plane.")		A technique of partial encapsulation and protection of die while still on the wafer and before the wafer is divided into singulated dice.	
电压层	22.1563	晶圆级封装 (WLP)	35.2154
作为公共电压源的导体层或其中的一部分, 它不同于用于电气电路、屏蔽及散热的接地层。(见“接地层, Ground Plane”及“信号层, Signal Plane”。)		晶圆被分割成单个芯片前芯片仍在晶圆上, 局部灌封及芯片保护技术。	
Voltage Plane Clearance	22.1141	Waffle Pack	71.1146
Removed portions of a voltage plane that isolate it from a hole in the base material to which the plane is attached.		An open compartmentalized container for holding surface-mount components that is suitable for loading the components into automatic handling equipment.	
电压层间隙	22.1141	格栅包装	71.1146
为使电压层与基材内的孔及与孔相连接的层隔离, 而从电压层上去除的一部分。		适合于自动贴片机拾取元器件的盛放表面贴装元器件的敞开式分隔容器。	
Wand (Bar Code)		Wand (Bar Code)	70.2121
		A bar code scanner, usually hand held, used for reading bar codes; may not read from distances and on curved surfaces.	

扫描笔（条码）	70.2121	Wave Soldering	75.1152
条码扫描器，通常为手持，用于读取条码，不能从远距离或曲面上读取。		A process wherein an assembled printed board is brought in contact with the surface of a continuously flowing and circulating mass of solder.	
Warper	44.1148	波峰焊接	75.1152
A machine for preparing and arranging the yarns intended for the warp of the fabric.		已组装元器件的印制板与连续流动循环的大量焊料表面接触的过程。	
整经机	44.1148	Waveguide	21.1151
用于准备及整理供织物经纱用纱线的机器。		A tube, usually electrically conductive, for conducting radiofrequency signals between circuit or system elements.	
Warp	60.1147	波导管	21.1151
See "Bow."		在线路之间或系统单元间传导无线电频率信号的管子，通常为导电的。	
翘曲	60.1147	Wavelength	21.2123
见“弓曲， Bow”。		The distance an electromagnetic wave propagates during one full cycle. It is the ratio of the propagation velocity in length units per unit time to the frequency in cycles per unit time.	
Warp Size	44.1149	波长	21.2123
Organic yarn binder (starch) applied to the warp yarn to improve strand integrity, strength and smoothness in order to withstand the rigors of weaving. (See also "Sizing" and "Heat Cleaning.")		电磁波在一个完整周期内的传播距离。它是每单位时间内的传播长度即传播速率与每单位时间内的周期数即传播频率之比。	
经纱上浆	44.1149	Wave Length Spectrum	21.1776
为提高股线的完整性、强度及平滑度以承受编织的强度而施加在经纱线上的有机纱线粘合剂（浆糊）。(见“上浆， Sizing”及“热清洗， Heat Cleaning”。)		The distance between three consecutive nodes of a wave, equal to 360 electrical degrees. It is equal to the velocity of propagation divided by the frequency when both are in the same units.	
Waste (Fabric)	44.1564	波长频谱	21.1776
A lump or collection of yarn or filament that is woven into a fabric where accumulated contamination off the loom has found its way into the fabric.		波的3个连续节点之间的距离，等于360度。它等于在相同单位下，传播速度除以频率。	
废纱（织物）	44.1564	Waviness	44.1153
织物中的一束纱或细丝，由于积聚的污物离开织布机而被织入织物。		Alternating thick and thin locations in cloth that is woven under varying tension that prevents the even placement of picks.	
Water Vapor Transmission Rate (WVTR)	21.2122	波纹	44.1153
A measure of the permeability of plastic film or metallized plastic film material to moisture and considered an important rating for moisture barrier bags.		由于织造时张力的改变阻碍纱线的均匀放置，造成织物有厚有薄。	
水蒸汽传输率（WVTR）	21.2122	Waviness, (Base Materials)	41.2124
对塑料膜或金属化塑料膜材料的湿气渗透性的量度，是防湿隔离袋的重要额定值。		The surface topography of the laminate, usually metallic-clad, which follows the structure of the reinforcement fabric in an undulating pattern.	
Water-Soluble Flux	75.1150		
An organic chemical soldering flux that is soluble in water.			
水溶性助焊剂	75.1150		
可溶于水的有机化学助焊剂。			

波纹 (基材)	41.2124	Wedge Tool	74.1158
覆金属箔层压板的表面形态，依增强物结构形成的波浪状图形。		A bonding tool in the general form of a wedge, with or without a guide hole to position wire under its bonding face. (See also "Capillary.")	
Weave Exposure	55.1154	楔形工具	74.1158
A base material surface condition in which unbroken fibers of woven glass cloth are not completely covered by resin.		通常为楔形的键合工具，在其键合面下有或没有定位金属线的导向孔。(又见“微细导管，Capillary”。)	
露织物	55.1154	Wetting	75.2128
基材表面的状况，玻纤布尚未断裂的纤维未被树脂完全覆盖。		The spreading of molten solder or glass on a metallic or non-metallic surface, with proper application of heat and in some cases flux.	
Weave Style (Fabric)	44.2125	润湿	75.2128
The fabric construction and configuration that interlaces the warp and fill yarn into a woven structure.		在施加适当热量且在某些情况下涂敷助焊剂时，熔融的焊料或玻璃在金属或非金属表面的铺展。	
编织类型 (织物)	44.2125	Wetting, Adhesive (Pressure Sensitive Tape)	75.2129
经纱和纬纱交织形成的织物组织的构造和外形。		The chemical and physical phenomenon in which the pressure sensitive adhesive achieves intimate contact with the substrate surface.	
Weave Texture	44.2126	粘接剂润湿 (压敏胶带)	75.2129
A surface condition of base material in which a weave pattern of cloth is apparent although the unbroken fibers of woven cloth are completely covered with resin.		压敏胶带与基板表面紧密接触时的化学和物理现象。	
显布纹	44.2126	Wetting Balance	92.1160
基材的一种表面状况，即尚未断裂的织物纤维虽被树脂完全覆盖，但在表面仍显露出来织物的编织图案。		An instrument that is used to measure wetting performance and solderability.	
Web Taper	51.1155	润湿称量仪	92.1160
The constant increase in web thickness from the drill point to the opposite end of the flute where the flute carry-out starts.		用于测量浸润性能及可焊性的仪器。	
钻心锥度	51.1155	Wetting, Solder	75.1159
从钻尖到对应出屑槽末端即出屑槽的排屑起点的固定增量。		The formation of a relatively uniform, smooth, unbroken, and adherent film of solder to a basis metal.	
Web Thickness	51.1156	焊料润湿	75.1159
The distance between the bottom of adjacent flutes.		焊料在金属基材上形成相对均匀、光滑、连续的附着膜。	
钻心厚度	51.1156	Whisker	92.1161
相邻出屑槽底部之间的距离。		A slender, acicular metallic growth filament that is between a conductor and a land.	
Wedge Bond	74.1157	晶须	92.1161
A wire bond made with a wedge tool. (See also "Ball Bond.")		导体与焊盘之间生长出的细长、针状细金属丝。	
楔形键合	74.1157	White Spot	92.1566
用楔形工具(劈刀)形成的金属线键合。(又见“球形键合，Ball Bond”。)		A white or translucent subsurface discoloration at unfractured glass knuckles of woven polytetrafluoroethylene (PTFE) material after it has been processed. (See also "Crazing" and "Measling".)	

白斑	92.1566	滑触作用	37.1167
加工完成后，在聚四氟乙烯织物内未碎裂的玻璃纤维下突起的白色、半透明的变色点。(又见“微裂纹，Crazing”和“白斑， Measling”。)		连接器接触件配接时发生的滑动作用。	
Wicking	75.1162	Wire Bond	35.2130
The capillary absorption of a liquid along the fibers of a base material. (See also “Solder Wicking.”)		A completed wire connection that provides electrical continuity between the die and a terminal.	
芯吸	75.1162	金属线键合	35.2130
沿着基材纤维毛细吸收液体。(又见“焊料芯吸， Solder Wicking”。)		实现芯片与端子之间电气连通的完整金属线连接。	
Wicking (Solder Mask)	47.1995	Wire Bond Degradation	95.2131
A condition where uncured solder mask is drawn from the surface of a panel into the holes (via, mounting or component).		A weakening of an integrated circuit ball bond due to stress caused by exposure to reflow soldering temperatures resulting in possible reduction in component reliability.	
芯吸（阻焊膜）	47.1995	金属线键合退化	95.2131
在制板表面的液态阻焊膜，被吸入孔（导通孔、安装孔或元器件孔）内的状况。		集成电路焊球键合由于暴露于再流焊接温度下而退化，可能导致元器件可靠性的降低。	
Window	94.1163	Wire Bonding	74.1168
A range of values within which evaluation parameters are defined.		An interconnection technology using metal wire e.g., Gold, Copper, etc. between a die pad and base material, lead frame, etc.	
窗口	94.1163	金属线键合	74.1168
规定的评定参数数值的一个范围。		利用金、铜等金属线在芯片连接盘与基材、引线框架之间实现互连的技术。	
Window (Carrier Tape)	36.1164	Wire Sag	74.1169
An opening in the dielectric of a carrier tape that exposes the conductors for bonding purposes.		The failure of a wire to form the desired loop between its bonds.	
窗口（载带）	36.1164	金属线下垂	74.1169
为了键合而暴露出导体的载带介质上的开口。		在键合之间金属线不能形成所要求的线环。	
Window (Process)	94.1165	Wire Stripping	37.1567
A range of values within which evaluation parameters are defined.		The removal of a predetermined portion of insulation from an insulated wire without affecting the mechanical or electrical characteristics of the conductors of the remaining insulation.	
窗口（工艺）	94.1165	剥线	37.1567
规定的评定参数数值的范围。		从绝缘的金属线上剥除预先确定的部分绝缘皮，同时不影响剩余绝缘皮内导体的机械或电气性能。	
Wipe Soldering	75.1166	Wire Wrap	75.1170
The forming of a joint by applying semifluid solder and shaping the joint by rubbing with a greased cloth pad.		See “Solderless Wrap.”	
涂擦焊接	75.1166	导线绕接	75.1170
用半流动的焊料形成连接，再用油脂布垫擦拭而使连接成形。		见“无焊绕接， Solderless Wrap”。	
Wiping Action	37.1167		
The sliding action that occurs when connector contacts are mated.			

Wire Overcoat (Discrete Wiring)	64.2132
A secondary polymeric coating of the wire applied over the insulation to aid in the bonding of wires during the wiring process.	
导线保护层（分立布线）	64.2132
施加在导线绝缘层外的第二层聚合涂层，有助于布线过程中导线的连接。	
Wire Poke-Through (Discrete Wiring)	64.2133
A condition of the insulated wire breaking through the cover layer, exposing the insulated wire, especially at the wire cross-over.	
导线刺穿（分立布线）	64.2133
绝缘导线穿过防护层，裸露出绝缘的导线的状况，特别易发生在导线交叉处。	
Wire Stub (Discrete Wiring)	64.2134
The short end of an insulating wire which extends beyond the wall of a plated-through hole.	
导线梢（分立布线）	64.2134
从镀覆孔孔壁伸出的绝缘导线末端。	
Wiring Elementary	21.1171
See "Elementary Diagram."	
布线原理	21.1171
见“原理图， Elementary Diagram”。	
Wiring Layer (Discrete Wiring)	64.2135
A network of embedded insulated wires, forming a wiring layer.	
布线层（分立布线）	64.2135
嵌入的绝缘导线网络所形成的布线层。	
Wobble Bond	74.1172
A thermo compression, multi-contact bond made by rocking a bonding tool on a beam lead.	
振动键合	74.1172
对梁式引线采用振动键合工具而形成的热压多点键合。	
Working Master	24.1173
A 1:1 scale pattern that is used to reproduce the production master.	
工作原版	24.1173
用于复制生产底版的1:1比例的图形。	

Working Time	75.1568
The maximum period of time that an adhesive can be exposed to ambient conditions with its chemical and physical properties remaining within satisfactory limits for proper dispensing and bonding. (See also "Open Time.")	
作业时间	75.1568
粘合剂暴露于周围环境条件下，其化学及物理性能仍可以保持满意的点涂和粘接限度的最长周期时间。(又见“间隔时间， Open Time”。)	
Wrap Plating	60.2144
The electrolytic hole plating deposition continuously extending onto the surface from a plated via structure. (See Figure W-1.)	
	IPC-50h-w-01
Figure W-1 Wrap Plating	
包覆电镀	60.2144
孔电解镀层沉积从镀覆的导通孔连续延伸至表面。(见图W-1。)	
	IPC-50h-w-01-cn
图W-1 包覆电镀	
Wrinkles	76.1569
Ridges, creases or furrows in a coating or resist that are formed after the material has adhered to a metal, such as solder, that subsequently melts and resolidifies.	

皱纹	76.1569	Y
材料附着于金属（如焊料）、经熔融及再固化后所形成的涂层或蚀刻剂内出现的隆起、皱纹或皱纹。		
Wrought Foil	45.1174	Y Axis
A metal foil that is formed by the rolling of cast metal.		The vertical or bottom-to-top direction in a two-dimensional system of coordinates.
压延箔	45.1174	Y轴
由铸造金属碾轧形成的金属箔。		二维坐标系中垂直的或从下至上的方向的坐标轴。
	X	Z
X Axis	26.1175	Z Axis
The horizontal or left-to-right direction in a two-dimensional system of coordinates. (This axis is perpendicular to the Y axis.)		The axis perpendicular to the plane formed by the X and Y axes. This axis usually represents the thickness of the board.
X轴	26.1175	Z轴
二维坐标系中水平的或从左至右的方向的坐标轴。 (此轴垂直于Y轴。)		垂直于由X轴及Y轴所构成平面的轴，此轴通常表征板的厚度。
X-Out	22.2140	Zigzag In-line Package
A method of identifying a defective part within an array to ensure it is not used (populated, further processed, etc.).		33.2136
打叉	22.2140	Package with in-line leads on one side which are arranged in zigzag fashion.
标识有缺陷部件的一种方法。以确保该部件不再被使用（组装、进一步加工等）。		锯齿状直插封装
		33.2136
		单列直插引线排列成锯齿状的封装。

附录A

通用工业缩写词

The acronyms listed here reflect the list of approved acronyms as of the time of release of this document. For a more frequently maintained list, go to www.ipc.org/acronyms.

本附录中所列缩写词为本标准发布之前经核准的缩写词。缩写词会经常进行更新，欢迎登录www.ipc.org/acronyms查询。

— A —			
AA	Antenna Array 天线阵	AMT	Amount 数量
AA	Automatic Acknowledge 自动认可	ANG	Angle 角
AAGR	Annual Average Growth Rate 年平均增长率	ANOVA	Analysis of Variance 方差分析
ANSI		ANSI	American National Standards Institute 美国国家标准学会
ABS	Acrylonitrile-Butadiene-Styrene (Plastic) 丙烯腈—丁（二烯）苯（乙烯）（塑料）	AOI	Automated Optical Inspection 自动光学检验
AC	Alternate Current 交流（电）	AOQ	Average Outgoing Quality 平均检出质量
AC	All Call 所有呼叫	APL	Applicable 适用
ACA	Anisotropically Conductive Adhesive 各向异性导电胶	APR	Automatic Phototool Registration 自动底片定位
ACCU	Alternating Current Connection Unit 交流电连接装置	APT	Automatically Programmed Tools 自动编程工具
ACI	Automatic Component Inspection 自动元器件检验	AQL	Acceptable Quality Level 可接受质量水平
AEC	Architecture, Engineering and Construction 结构、工程和构造	AR	Annular Ring 孔环
ADJ	Adjust 调整；调节	ARINC	Aeronautical Radio Incorporated 航空无线电
AGC	Automatic Gain Control 自动增益控制	ASAP	As Soon as Possible 尽快
AGR	Annual Average Growth Rate 年平均增长率	ASCII	American Standard Code for Information Interchange 美国信息交换标准码
AGV	Automated Guided Vehicle 自动导向车辆	ASIC	Application Specific Integrated Circuit 专用集成电路
AI	Artificial Intelligence 人工智能	ASME	American Society Of Mechanical Engineers 美国机械工程师学会
AIS	Adhesive Interconnect System 粘接互连系统	ASQ	American Society For Quality 美国质量学会
AL	Aluminum 铝	ASSY	Assembly 组件
AMP	Amperage/Ampere 安培数 / 安培	ASTM	American Society for Testing Materials 美国试验与材料学会

ATE	Automatic Test Equipment 自动测试设备	BLNK	Blank 空白
ATG	Automatic Test Generation 自动测试生成	BO	Breakout 破出
ATR	Air Transport Rack 航空运输架	BOD	Biochemical Oxygen Demand 生化需氧量
AU	Gold 金	BOM	Bill of Material 材料清单
AUTH	Authorize/Authorization 授权; 许可	BTO	Build To Order 按定单生产
AUX	Auxiliary 辅助	BP	Backplane/Backpanel Blueprint 底板 / 背板 / 蓝图
AVG	Average 平均	BRD	Board 板
AVT	Accelerated Vesication Test 加速起泡测试	BS	Backside 背面
AW	Artwork 照相底图	B&T	Bow and Twist 弓曲和扭曲
AWG	American Wire Gauge 美国线规	BT	Bismaleimide Triazine 双马来酰亚胺三嗪
AXI	Automated X-Ray Inspection 自动X光检查	BTAB	Bumped Tape-Automated Bonding 凸点式载带自动键合
— B —		BTM	Bottom 底
BBT	Bare Board Test 裸板测试	BVL	Bevel 斜面
BC	Buried Capacitance 埋电容	— C —	
BD	Board 板	C&E	Cause And Effect 因果
BDMA	Benzylidimethylamine 苄基二甲胺	C3	Command, Control and Communicate 指挥、控制和通讯
BGA	Ball Grid Array 球栅阵列	C4	Controlled Collapse Component Connection 可控塌落元器件连接
BITE	Built-In Test Equipment 内置测试设备	CAD	Computer-Aided Design 计算机辅助设计
BK	Back 背	CAE	Computer-Aided Engineering 计算机辅助工程
BKT	Bracket 括号	CAF	Conductive Anodic Filaments 阳极导电丝
BKPLN	Backplane 底板	CAFIM	Computer-Aided Facilities Management 计算机辅助设备管理
BKPNL	Back Panel 背板	CAGE	Commercial and Government Entity 商业及政府机构
BLK	Black/Block 黑 / 块	CALC	Calculate 计算

CALS	Computer-Aided Acquisition and Logistic Support (DOD) 计算机辅助采办和后勤保障（美国国防部）	CIM	Computer-Integrated Manufacturing 计算机集成制造
CAM	Computer-Aided Manufacturing 计算机辅助制造	CISC	Complex Instruction Set Computing 复杂指令系统计算
CAP	Capacitor/Capacity 电容 / 容量	CITIS	Contractor Integrated Technical Information Services 承包方集成技术信息服务
CAPP	Computer-Aided Process Planning 计算机辅助工艺设计	CL	Class 级
CAR	Computer-Aided Repair 计算机辅助返修	CLN	Clean 清洁
CASE	Computer-Aided Software Engineering 计算机辅助软件工程	CLR	Clear/Clearance 清楚 / 阴隙
CAT	Computer-Aided Testing 计算机辅助测试	CM	Contract Manufacturer 合同制造商
CBGA	Ceramic Ball Grid Array 陶瓷球栅阵列	CMC	Copper Moly Copper 铜 / 钼 / 铜
CBORE	Counterbore 埋头孔	CMOS	Complimentary Metal-Oxide Semiconductor 互补型金属氧化物半导体
CC	Conformal Coating 敷形涂覆	CMP	Component 元器件
CCAPS	Circuit Card Assembly and Processing System 电路卡组件及加工系统	CNC	Computer Numerical Control 计算机数字控制
CDA	Copper Development Association 铜矿开发协会	CNTR	Center 中心
CEE	Career Ending Event 职业终止事件	CNTRL	Control 控制
CEPM	Certified Ems Program Managers 认证EMS项目经理	COB	Chip-on-Board 板上芯片直装
CET	Certified Electronic Technician 认证电子技术人员	COD	Consumed Oxygen Demand 需氧量
CF	Copper Foil 铜箔	COT	Configure To Order 按定单配置
CFM	Continuous Flow Manufacturing 连续流水线制造	COTS	Commercial Off The Shelf 商业成品
CFM	Cubic Feet per Minute 立方英尺每分	CoA	Certificate of Analysis 分析证书
CHAR	Character/Characteristic 字符 / 特性	CoC	Certificate of Compliance 合格证
CHG	Change 变化, 更改	COMP	Component 元器件
CHK	Check 校核	COND	Conductor/Condition 导线 / 条件
CI	Controlled Impedance 受控阻抗	CONF	Conference/Conformance 研讨会 / 一致

CONN	Connector 连接器	DBMS	Database Management System 数据库管理系统
CONT	Continue/Continuity 连续 / 连通性	DC	Direct Current 直流 (电)
Cp	Capability Performance 能力性能	DCAS	Defense Contract Administration Service (美国) 国防合同管理服务中心
CPK	Process Capability Index (range within specification) 工艺能力指数 (技术规范内)	DCMA	Defense Contract Management Agency (美国) 国防合同管理局
CPL	Capability Performance, Lower 能力特性, 下限	DCMC	Defense Contract Management Command (美国) 国防合同管理指挥部
CPLD	Complex Programmable Logic Device 复杂的可编程逻辑器件	DEC	Decimal 小数
CPN	Coupon 附连测试板	DEG	Degree 度
CPU	Capability Performance, Upper 能力特性, 上限	DEP	Deposit.Deposition 沉积
CPU	Central Processing Unit (Computer) 中央处理器 (计算机)	DES	Develop-Etch-Strip/Design 显影—蚀刻—去膜 / 设计
CRC	Cyclic Redundancy Check 循环冗余码校验	DESC	Defense Electronics Supply Center (美国) 国防电子供应中心
CRT	Cathode-Ray Tube 阴极射线管	DF	Dryfilm/Difunctional 干膜 / 双官能
CS	Component Side 元器件面	DFM	Design for Manufacture 可制造性设计
CSA	Canadian Standards Agency 加拿大标准署	DFSM	Dry Film Solder Mask 干膜阻焊膜
CSG	Constructive Solids Geometry 构造实体几何学	DIA	Diameter 直径
CSK	Countersink 埋头孔	DIEL	Dielectric 电介质
CSP	Chip Scale Package 芯片尺寸封装	DIM	Data-Information Module 数据信息模块
CTE	Coefficient of Thermal Expansion 热膨胀系数	DIM	Dimension 尺寸
CU	Copper 铜	DIN	Deutsches Institute for Normung 德国标准化协会
CVR	Cover 覆盖	DIP	Dual-Inline Package 双列直插封装
CVS	Cyclic Voltammetry Stripping 循环伏特剥除法	DIST	Distribute/Distribution 分配 / 分布
— D —		Dk	Dielectric Constant 介电常数
DAB	Designated Audit Body 指定审核机构	DLA	Defense Logistics Agency (DOD) (美国) (国防部) 国防后勤署
DATC	Design Automation Technical Committee (IEEE) 设计自动化技术委员会 (IEEE)	DMA	Direct Memory Access 直接存储器访问

DMSA	Defense Manufacturers and Suppliers Association (美国) 国防制造商与供应商协会	E-AU	— E — Electroless Gold 化学镀金
DNC	Distributed (or Direct) Numerical Control 直接数字控制	E-NI	Electroless Nickel 化学镀镍
DOC	Document 文件	EA	Each 各
DOD	Department of Defense (美国) 国防部	ECAD	Electronic Computer-Aided Design 电子计算机辅助设计
DOD	Dissolved Oxygen Demand 溶解耗氧量	ECC	Error Correction Code 纠错码
DOE	Design Of Experiments 实验设计	ECCB	Electronic Components Certification Board 电子元器件认证板
DOS	Disc Operating System 磁盘操作系统	ECL	Emitter-Coupled Logic 发射极耦合逻辑
DP	Drill Program 钻孔程序	ECM	Electronic Countermeasures 电子干扰
DRC	Design Rule Checking 设计规则检查	ECN	Engineering Change Notice 工程更改通知
DRL	Drill 钻孔	ECO	Engineering Change Order 工程更改指令
DRM	Drawing Requirements Manual 图纸要求手册	ECR	Engineering Change Request 工程更改请求
DS	Dimensional Stability/Double-sided 尺寸稳定性 / 双面	ED	Electrodeposited 电沉积
DSC	Differential Scanning Calorimetry 差分扫描热量测定法	EDA	Electronic Design Automation 电子设计自动化
DSP	Die Size Package 芯片尺寸封装	EDIF	Electronic Design Interchange Format 电子设计交换格式
DSP	Digital Signal Processor 数字信号处理器	EDM	Electro-Discharge Machining 放电加工
DTF	Double-Treat Foil 双面处理金属箔	EDO	Extended Data Out 扩充数据输出
DTL	Detail 细节, 详图	EIA	Electronic Industries Association (美国) 电子工业协会
DTP	Diameter True Position 实际位置度直径	EIS	Engineering Information System 工程信息系统
DTS	Dock To Stock 免验	ELD	Electro-Luminescent Diode 场致发光二极管
DVM	Digital Voltmeter 数字电压表	EMC	Electromagnetic Compatibility 电磁兼容性
DWV	Dielectric Withstanding Voltage 介电电压	EMF	Electro-Motive Force 电动势
DXF	Data Exchange Format 数据交换格式	EMI	Electromagnetic Interference 电磁干扰

EMP	Electromagnetic Pulse 电磁脉冲	FAR	Failure Analysis Report 失效分析报告
EMPF	Electronics Manufacturing Productivity Facility 电子制造生产设施	FAR	First Article Report 首件报告
EMS	Electrical Manufacturing Services 电子制造服务	FC-CBGA	Flip Chip Ceramic Ball Grid Array 倒装芯片陶瓷球栅阵列
EMUL	Emulsion 乳胶	FC-PBGA	Flip Chip Plastic Ball Grid Array 倒装芯片塑封球栅阵列
ENIG	Electroless Nickel/Immersion Gold 化学镀镍 / 浸金	FCC	Federal Communications Commission (美国) 联邦电信委员会
EPA	Environmental Protection Agency 环境保护署	FCC	Flat-Conductor Cable 扁平导体电缆
EPR	Ethylene-Propylene (Copolymer) Resin 乙烯—丙烯 (共聚) 树脂	FCT	Functional Circuit Test 功能电路测试
EPT	Ethylene-Propylene Terepolymer 乙烯—丙烯三元共聚物	FEA	Finite-Element Analysis 有限元分析
Er	Relative Dielectric Constant 相对介电常数	FEM	Finite-Element Modeling 有限元模拟
ESD	Electro-static Discharge/Electro-static Device 静电放电	FEP	Fluorinated Ethylene-Propylene (Teflon) 氟乙烯 - 丙烯 (特氟隆)
ESI	Early Supplier Involvement 供应商早期参与	FET	Field-Effect Transistor 场效应晶体管
ESR	Equivalent Series Resistance 等效串联电阻	FFT	Fast Fourier Transform 快速傅里叶变换
ET	Electrical Test 电测试	FGI	Finished Goods Inventory 成品库存清单
ETPC	Electrolytic Tough-Pitch Copper 电解韧铜	FHS	Finished Hole Size 成孔尺寸
EVAL	Evaluation/Evaluate 评价	FLT	Flat 平
EX	Example 例	FM	From 自
EXP	Expose/Exposure/Expire 暴露 / 曝光 / 到期	FMEA	Fault Mode And Effect Analysis 故障模式及影响分析
EXT	External/Extension 外部 / 扩展	FNL	Final 最后
— F —			
FA	First Article 首件	FPGA	Field Programmable Gate Array 场可编程门阵列
FAA	Federal Aviation Administration (美国) 联邦航空管理局	FPT	Fine-Pitch Technology 细间距技术
FAB	Fabrication/Fabricate 制作	FPW	Flex Printed Wiring 挠性印制线路
FAI	First Article Inspection 首件检验	FREQ	Frequency 频率

FS	Farside 远面	HTTP	Hypertext Transfer Protocol 超文本传输协议
FSCM	Federal Stock Code for Manufacturers (美国) 联邦制造商股票代码		— I —
FTIR	Fourier Transform Infra-Red (Spectroscopy) 傅里叶变换红外光谱学	I/O	Input/Output (Terminations) 输入 / 输出 (端子)
FTP	File Transfer Protocol 文件传输协议	IC	Integrated Circuit 集成电路
FUNC	Function/Functional 功能 / 功能的	IC	Ionic Contamination/Interconnect/Integrated Circuit 离子污染物 / 互连 / 集成电路
	— G —	ICA	Isotropically Conductive Adhesive 各向同性导电胶
Ga	As Gallium Arsenide 砷化镓	ICAM	Integrated Computer-Aided Manufacturing 集成计算机辅助制造
GBIB	General Purpose Interface Bus 通用接口总线	ICT	Inner Circuit Test 内部电路测试
GLS	Glass 玻璃	ID	Inside Diameter 内径
GMA	Gas Metal Arc (Welding) 气体保护金属弧焊 (熔焊)	IDC	Insulation-Displacement Connection 绝缘皮穿刺连接
GND	Ground 接地	IDENT	Identify/Identification 识别 / 识别
GTA	Gas Tungsten Arc (Welding) 气体保护钨弧焊 (熔焊)	IEC	International Electrotechnical Commission 国际电工委员会
GTPBGA	Glob Top Plastic Ball Grid Array 圆顶塑封球栅阵列	IECQ	International Electronic Component Qualification System 国际电工委员会电子元器件质量评定体系
	— H —	IEDR	Initial Engineering Design Review 初期工程设计审核
HAL	Hot Air Level 热风整平	IEEE	Institute of Electrical and Electronic Engineers (美国) 电气与电子工程师学会
HASL	Hot Air Solder Leveling 热风焊料整平	IEPS	International Electronic Packaging Society 国际电子封装学会
HDI	High Density Interconnect 高密度互连	IGES	Integrated Graphics Exchange System 集成图象交换系统
HL	Hole 孔	IL	Innerlayer 内层
HLS	Holes 孔 (复数)	ILB	Inner-Lead Bonding (TAB) 内引线键合 (TAB)
HRC	High Resin Content 高树脂含量	IMG	Image 图像
HPGL	Hewlett Packard Graphic Language 惠普图形语言	IMM	Immersion 浸没
HT	Height 高度	IMMAU	Immersion Gold 浸金
HTML	Hypertext Markup Language 超文本链接标示语言		
HTE	High Temperature Elongation 高拉伸性		

IMP	Impedance 阻抗		— L —
INC	Incomplete/Incorrect/Incorporate 不完全 / 不正确 / 组成	LAN	Local Area Network 局域网
INCL	Include 包括	LAM	Laminate/Lamination 层压板 / 层压
INSP	Inspect/Inspection 检查 / 检验	LBA	Logical Block Address 逻辑块地址
INT	Internal 内部的	LCC	Leadless Chip Carrier 无引线芯片载体
INV	Inventory 库存清单	LCCC	Leadless Ceramic Chip Carrier 无引线陶瓷芯片载体
IP	Internet Protocol 互联网协议	LCD	Liquid Crystal Display 液晶显示
IPM	Inches Per Minute 每分钟英寸	LDA	Logic Design Automation 逻辑设计自动化
IR	Infrared 红外	LED	Light-Emitting Diode 发光二极管
IR	Insulation Resistance/Infrared 绝缘电阻 / 红外	LEG	Legend 图例
IS	Inside/Information Systems 内部 / 信息系统	LIF	Low Insertion Force 低插拔力
ISCET	International Society Of Certified Electronics Technician 电子技术人员认证国际学会	LMC	Least Material Condition 最小实体状态
ISHM	International Society for Hybrid Microelectronics 国际混合微电子学会	LOC	Locate/Location 定位 / 位置
ISO	International Standards Organization 国际标准组织	LPI	Liquid Photoimageable 液态光致成像
ISS	Issue 发布; 版本	LPI	Liquid Photoimageable Solder Mask 液态光致成像阻焊膜
ITT	Inter-Test Time 测试间隔时间	LRC	Low Resin Content 低树脂含量
IVH	Interstitial Via Hole 裂缝的导通孔	LRU	Lowest Replaceable Unit 最小可替换单元
— J —			
JEDEC	Joint Electronic Device Engineering Council 电子器件工程联合理事会	LSI	Large Scale Integration (Integrated Circuit) 大规模集成 (集成电路)
JIT	Just-in-Time (Manufacturing) 即时 (制造)	LSR	Laser 激光
— K —			
KGB	Known Good Board 已知好板	LTCC	Low Temperature Co-Fired Ceramic 低温共烧陶瓷
KGD	Known Good Die 已知好芯片	LW	Line Width 线宽
		LYR	Layer 层
— M —			
		MA	Mechanical Advantage 机械效益

MAC	Maximum Allowable Concentration 最大允许浓度	MITI	Ministry of International Trade and Industry (Japan) (日本) 通商产业省
MAC	Media Access Control 介质存取控制	ML	Multilayer 多层
MAP	Manufacturing Automation Protocol 制造自动化协议	MLB	Multilayer Board 多层板
MATL	Material 材料	MLC	Multilayer Chip Capacitor 多层片式电容
MATS	Material Transport Segment 材料运输部门	MLPCB	Multilayer Printed Circuit Board 多层印制电路板
MBV	Micro-blind Via 微盲导通孔	MMC	Maximum Material Condition 最大实体状态
MCAD	Mechanical Computer Aided Design 机械计算机辅助设计	MMIC	Monolithic Microwave Integrated Circuit 单片微波集成电路
MCAE	Mechanical Computer-Aided Engineering 机械计算机辅助工程	MOS	Metal-Oxide Semiconductor 金属氧化物半导体
MCM	Multi Chip Module 多芯片模块	MRB	Material Review Board 材料评审委员会
MCP	Multi Chip Package 多芯片封装	MRP	Material Requirement Planning 材料需求规划
MDA	Methylenedianiline 二苯氨基甲烷	MRP II	Manufacturing Resource Planning 制造资源规划
MED	Molecular Electronic Device 分子电子器件	MSI	Medium Scale Integration (Integrated Circuit) 中规模集成 (集成电路)
MEK	Methyl-Ethyl Ketone 甲基•乙基 (甲) 酮	MSDS	Material Safety Data Sheets 材料安全数据表
MELF	Metal Electrode Face (Discrete Leadless Component) 金属电极面 (分立无引线元器件)	MSG	Message 信息
MEMS	Micro Electro Mechanical Systems 微电子机械系统	MSTR	Master 主
MF	Multifunctional 多官能团	MTBF	Mean Time Between Failures 平均无故障工作时间
MFG	Manufacturing 制造	MTL	Metal 金属
MFR	Manufacturer 制造商	MTTR	Mean Time To Repair 平均返修时间
MIBK	Methyl-Isobutyl Ketone 甲基异丁基 (甲) 酮		— N —
MIN	Minimum 最小	NA	Not Applicable 不适用
MIP	Manufacturing Instruction Procedure/ Multiple Inline Package 生产指导程序 / 多列直插封装	NADCAP	National Aerospace and Defense Contractors Accreditation Procedures 国家空间及国防承包商鉴定程序
MIR	Moisture & Insulation Resistance 湿气及绝缘电阻	NASA	National Aviation and Space Administration 国家航空与航天管理局

NBR	Nitrile Butadiene-Acrylonitrile Rubber 丁腈—丙烯腈橡胶	OA	— O —
NBS	National Bureau of Standards 国家标准局	OA	Overall 全部; 全体
NC	Numerical Control 数字控制	OBE	Organic Acid (Flux) 有机酸 (助焊剂)
NCM	Non-Conforming Material 不合格材料	OD	Overcome By Events 遭受突发事件
NDT	Non-Destructive Testing 无损测试	ODR	Outside Diameter 外径
NECQ	National Electronics Component Qualification System 国家电子元器件鉴定体系	OEM	Oscillating Disk Rheometer 振荡盘式流变计
NEG	Negative 负	OFHC	Original Equipment Manufacturer 原始设备制造商
NEMA	National Electrical Manufacturers Association 国家电气制造商协会	OL	Oxygen-Free High-Conductivity Copper 无氧高传导率铜
NF	Non-Functional 非功能	OLB	Outerlayer 外层
NHS	Nominal Hole Size 标称孔径	ORG	Outer-Lead Bonding (TAB) 外引线粘合 (TAB)
NI	Nickel 镍	ORIG	Organize/Organization/Orange 组织 (动) / 组织 (名) / 橙色
NIST	National Institute for Science and Technology 国家科学与技术学会	OSHA	Original 原始
NMR	Normal-Mode Rejection 正常拒收	OSI	Occupational Safety Hazards Act 职业安全法
NOM	Nominal 标称	OSP	Open Systems Interconnection 开放系统互连
NP	Non Plated 非电镀	OSI	On-Screen Inspection 在屏检验
NPI	New Product Introduction 新产品导入	OZ	Organic Solderability Preservative (anti-oxidant coating) 有机可焊性保护剂 (防氧化涂层)
NPTH	Non Plated Through Hole 非镀覆孔	P&IA	Ounce 盎司
NS	Nearside 近面	P&IS	— P —
NSA	National Security Agency 国家安全局	PAC	Packaging and Interconnecting Assembly 封装与互连组件
NSTD	Non-Standard 非标准	P&IS	Packaging and Interconnecting Structure 封装与互连结构
NTS	Not-to-Scale 不按比例	PBA	PAC Pad Array Carrier 焊盘阵列载体
		PBGA	PBA Printed Board Assemly 印制板组件
		PBGA	PBGA Plastic Ball Grid Array 塑封球栅阵列

PBX	Private Branch Exchange 专用交换分机	PLT	Plate 板
PC	Personal Computer 个人计算机	PLTD	Plated 电镀
PC	Printed Circuit/Production Control 印制电路 / 生产控制	PM	Preventive Maintenance 预防维护
PCA	Printed Circuit Assembly 印制电路组件	PNL	Panel 在制板
PCB	Printed Circuit Board 印制电路板	POS	Positive 正
PCMCIA	Personal Computer Memory Card Industry Association 国际个人电脑存储卡协会	PP	Prepreg 预浸材料
PDES	Product Data Exchange Specification 产品数据交换规范	Pp	Process Performance (See Also Cp) 工艺性能 (又见Cp)
PDL	Page Description Language 页面描述语言	PPM	Parts Per Million 百万分之几
PEM	Plastic Electronic Module 塑料电子模块	PPO	Polyphenylene Oxide 聚苯醚
PEP	Post-Etch Punch 蚀刻后冲孔	PPS	Polyphenylene Sulfide (Plastic) 聚苯硫 (塑料)
PGA	Pin Grid Array (Leaded Component Package) 针栅阵列 (带引线元器件封装)	PQFP	Plastic Quad Flat Package 塑封方形扁平封装
PHIGS	Programmer's Hierarchical Interface Graphics Standard 程序员分析界面图形标准	PROG	Program 程序; 纲要; 计划
PID	Photo-Imageable Dielectric 光可成像的电介质	PRTR	Planar Resistor Technology 平面电阻技术
PIP	Pin-In-Paste Technology 通孔再流焊接技术	PSF	Per Square Foot 每平方英尺
PL	Parts List 部件表	PSI	Pounds Per Square Inch 磅 (力) 每平方英寸
PLC	Place 地点	PT	Per Square Inch 每平方英寸
PLCC	Plastic Leaded Chip Carrier 塑封有引线芯片载体	PT	Positional Tolerance 位置公差
PLCS	Places 地点 (复数)	PTFE	Perfect Test/Point 完全测试 / 点
PLD	Programmable Logic Device 可编程逻辑器件	PTH	Polytetrafluoroethylene (Teflon) 聚四氟乙烯 (特氟隆)
PLN	Plane/Plan 平面 / 计划	PTS	Plated-Through Hole 镀覆孔
PLNG	Planning 规划	PVC	Points 点 (复数)
PLNR	Planner 规划者	PVT	Polyvinyl Chloride 聚氯乙烯
			Production Validation Test 生产验证测试

PB	Printed Board 印制板	RFI	Radio-Frequency Interference 射频干扰
PWA	Printed Wiring Assembly 印制线路组件	REIN	Reinforce 增强
PWB	Printed Wiring Board 印制线路板	RFP	Request for Proposal 建议征集
— Q —			RFQ Request For Quote 报价请求
QA	Quality Assurance 质量保证	REPL	Replace 替换
QC	Quality Control 质量控制	RFS	Regardless of Feature Size 要素尺寸无关
QE	Quality Engineer 质量工程师	RISC	Reduced Instruction Set Computing 精简指令系统计算
QFP	Quad Flat Pack 方形扁平封装	RMA	Rosin Mildly Activated (Flux) 中度活性松香（助焊剂）
QML	Qualified Manufacturers List 合格制造商一览表	RMK	Remake 重做
QPL	Qualified Products List 合格产品一览表	RMS	Root Mean Square 均方根
QPL	Quality Product Level 产品质量级别	ROM	Read Only Memory 只读存储器
QTA	Quick Turn Around 急件	RP	Rout Program 布线程序
QUAL	Qualification/Qualify 鉴定	RPM	Revolutions Per Minute 转每分
— R —			
R&R	Repeatability And Reproducibility 可重复性和可再现性	RPR	Repair 返修
RA	Rosin Activated (Flux) 活性松香（助焊剂）	RPT	Report 报告
RAD	Radius/Radii 半径 / 半径 (复数)	RSS	Ramp Soak Spike 升温-保温-峰值
RAM	Random Access Memory 随机存取存储器	RT	Rout 布线；铣切
REF	Reference 参考	RTF	Reverse-Treat Foil 反向处理箔
REG	Registration/Register 重合度；登记 / 注册	RTS	Ramp To Spike 升温到峰值
REL	Release 发布	RTT	Resistance From Point to Point 点到点电阻
REM	Remove 去除	RTV	Room Temperature Vulcanizing 室温硫化
REP	Representative/Represent 代表 / 表现	RWK	Rework 返工
REQ	Request for Quotation 询价	RwoH	Reliability without Hermeticity 无密封的可靠性

	— S —		
S&R	Scrap and Rework 报废及返工	SMD	Surface Mount Device 表面贴装器件
SAC305 A	Lead free soldering alloy consisting of Sn96.5, Ag3.0, Cu0.5 Sn 96.5 / Ag 3.0 / Cu 0.5无铅焊料合金	SMEMA	Surface Mount Equipment Manufacturers Association 表面贴装设备制造商协会
SAE	Society of Automotive Engineers 机动车工程师学会	SMOBC	Solder Mask Over Bare Copper 裸铜覆阻焊工艺
SB	Should/Shall Be 应该 / 应当是	SMOGB	Solder Mask Over Gold Body 金本体覆阻焊工艺
SBU	Sequential Buildup 顺序叠加	SMC	Surface Mount Component 表面贴装元器件
SCP	Single Chip Package 单芯片封装	SMP	Surface-Mount Pad 表面贴装焊盘
SCRN	Screen 丝网；屏幕	SMT	Surface Mount Technology 表面贴装技术
SEC	Solvent Extract Conductivity 溶剂萃取电释	SMTA	Surface Mount Technology Association 表面贴装技术协会
SECT	Section 部分；段	S/N	Serial Number 序列号
SEM	Scanning Electron Microscope 电子扫描显微镜	SNA	Systems Network Architecture 系统网络体系结构
SEM	Standard Electronic Module (Navy) 标准电子模块（美国海军）	SOC	System On a Chip 系统级芯片
SEP	Separate 单独；分离	SOIC	Small-Outline Integrated Circuit 小外形集成电路
SERA	Sequential Electrochemical Reduction Analysis 连续电化学还原分析	SOS	Silicon-on-Sapphire 硅蓝宝石；蓝宝石上外延硅
SFM	Surface Feet Per Minute 每分钟平方英尺	SP	Space 间距
SHT	Sheet 张；片	SPC	Statistical Process Control 统计过程控制
SIG	Signal 信号	SPEC	Specification 规范
SIP	Single Inline Package 单列直插式封装	SPICE	Simulation Program, Integrated Circuit Emphasis 集成电路加强模拟程序
SIR	Surface Insulation Resistance (Resistivity) 表面绝缘电阻（电阻系数）	SQ	Square 平方
SLD	Solder 焊料	SQC	Statistical Quality Control 统计质量控制
SLDR	Solder 焊料	SQFT	Square Foot 平方英尺
SLT	Slot 槽	SQIN	Square Inch 平方英寸
SMC	Surface-Mount Component 表面贴装元器件	SQL	Structured Query Language 结构式查询语言

SS	Solder Side 焊接面	TGT	Target 目标
SSI	Small-Scale Integration (Integrated Circuit) 小规模集成 (集成电路)	TH	Tooling Hole(s) 定位孔
STD	Standard 标准	THK	Thickness 厚度
STEP	Standard for Exchange of Product Model Data 产品模式数据交换标准	THP	Through Hole Package 通孔封装
STK	Stock/Stack 库存 / 堆	THT	Through-Hole Technology 通孔技术
SYM	Symbol 字符	TIFF	Tagged Image File Format 标记图象文件格式
	— T —	TMA	Thermo Mechanical Analysis 热机分析
TAB	Tape-Automatic Bonding 载带自动键合	TO	Transistor Outline 晶体管外形
TAL	Time Above Liquidus 液相线以上时间	TOL	Tolerance 公差
TANG	Tangency 相切	TOP	Technical and Office Protocol 技术和办公协议
TCE	Thermal Coefficient of Expansion 热膨胀系数	TP	True Position 实际位置
TCP/IP	Transmission Control Protocol / Internet Protocol 传输控制协议 / 互联网协议	TQM	Total Quality Management 全面质量管理
TCR	Temperature Coefficient of Resistance 电阻温度系数	TR	Transfer 转移, 传递
T _d	Laminate Temperature of Decomposition 层压板分解温度	TST	Test 测试
TDR	Time-Domain Reflectometer 时域反射计	T's & C's	Terms And Conditions 术语及条件
TEM	Transverse Electromagnetic Mode 横向电磁模式	TTL	Transistor-Transistor Logic 晶体管—晶体管逻辑
TEMP	Temperature 温度	TU	Touch-Up 修饰
TF	Terafunctional 四官能团	TYP	Typical/Type 典型 / 型号
TFA	Tree-based Floorplanning Algorithm 树形布置图算法		— U —
TFE	Tetrafluoroethylene (Teflon) 树形布置图算法	UAI	Use As Is 照样使用
Tg	Glass Transition Temperature 玻璃化温度	UBM	Under Bump Metallization 凸点下金属层
TGA	Thermo Gravimetric Analysis 热重量分析法	UHF	Ultra-High Frequency 超高频
TGP	True Grid Position 实际网格位置	UL	Underwriter's Laboratories 美国安全检测实验室公司

ULSI	Ultra-Large Scale Integration (Integrated Circuit) 超大规模集成（集成电路）	VSVR	Voltage Standing Wave Ratio (IEEE) 电压驻波比（IEEE）
UOS	Unless Otherwise Specified 除非另有规定	W/	Width 宽度
UPH	Unit Per Hour 每小时产能	W&T	Warp and Twist 弓曲和扭曲
URL	Uniform Resource Locator 统一资源定位器	WIP	Work In Process 在制件
UUT	Unit Under Test 被测单元	WLP	Wafer Level Packaging 晶圆级封装
— V —			
VAR	Value-Added Reseller 增值分销商	WYSIWYG	What You See Is What You Get 所见即所得
VHDL	VHSIC Hardware Description Language VHSIC 硬件描述语言	WWW	World Wide Web 环球信息网
VHF	Very-High Frequency 甚高频		— X —
VHSIC	Very-High Speed Integrated Circuits 甚高速集成电路	XIP	Execute In Place 芯片内执行
VLSI	Very-Large Scale Integration (Integrated Circuit) 甚大规模集成（集成电路）	XRF	X-Ray Fluorescence X射线荧光
— Z —			
VOC	Volatile Organic Compound 挥发性有机化合物	ZAF	Z-Axis Adhesive Film Z轴粘接膜
VOLT	Voltage 电压	ZIF	Zero-Insertion Force 零插拔力
VME	Versa-Module Electronic 多模块电子	ZIP	Zigzag Inline Package 锯齿状直插封装
VSAG	VHDL Standardization and Analysis Group VHDL 标准化及分析组	Zo	Impedance Value 阻抗值

附录B 分类编码的规则和应用

附录B对描述电子印制板组件的管理、设计、制作、组装及测试等各个方面的术语及定义所用的分类码描述符进行了定义。

背景

本标准所应用的分类编码(CC)规则建立于已被国际广泛认可和接受的概念原则之上。该分类编码根据与生产电子产品所需的各种要素及实际惯例有关的各种主题排列术语。

本分类编码(CC)规则尤其适合于互连结构设计、制作、组装和测试，重点为应用于电子封装领域的印制板和印制板组件产品。另外也包括了工艺、材料和元器件性质等术语，以及规定完成产品和服务所必须的商务管理方面的术语。

本分类编码共分为九大类：

1. 管理
2. 电子封装工程和设计
3. 电子封装元器件
4. 电子封装材料
5. 互连结构制作工艺
6. 电子封装互连结构类型和性能
7. 互连结构组装工艺
8. 电子封装互连结构组件类型和性能
9. 电子封装、制作和组装的质量与可靠性

本分类编码的第一部分由三个数字组成，表示与九个大类相对应的分类术语和信息。第一位数字指上述分类编码的大类；第二位数字指大类中的细目；第三位数字没有统一的规定，可供体系的使用者或规范的开发者选择，以允许对一个细目作更加详尽的分配。例如，分类编码“44X”表示：

- 4.. 大类(电子封装材料)
- .4. 细目(增强/抑制芯/散热材料)
- .X 可选

此分类编码方案的第二部分设计为四个数字的唯一识别编号，被分配用于某一具体的术语及其定义。这些编号按需要的顺序来分配，从0001开始编号。指定术语的大类和细目，其专有的编号标识就不会有重复。如果是一个行业中通用的术语，能归入多个细目或大类时，应把这个术语的定义按每个大类细目解释清楚。

以术语“空洞”(void)为例，该术语可以有三个专有的编号和定义。一个是印制板层压板内空洞，一个是照相底版乳剂内的空洞，还有一个是焊点内空洞。

IEC 60194中给每个术语分配的编号，前两个数字为大类/细目描述符，其后是一个小圆点(.)，再随后的四个数字给出了各个术语的唯一标识。如4.0173、56.2574等。

无论在什么情况下，如果一个术语适用于多处，它被给予了一个两位数字通用细目标识(如20, 30)。

该体系具有可鉴别近一万个术语及定义的能力。如果今后一旦超出这个数字，则可以在现有编号的四位数组前添加一个零(0)，以增加一位数。

下列各节描述了标准化的分类编码：

1. 管理

10. 通用(管理方面)

包含了描述管理功能所需要的通用术语，管理功能涉及运营公司、管理产品或监督过程等许多方面。

11. 数据处理

包含与处理数据所用软件与硬件有关的术语，这类数据为管理职责和/或功能数据。

12. 人员

包含涉及人员方面术语，并涉及诸如工业医学、安全、保险、防护等术语。

13. 设施

包含与完成电子封装功能的工厂或建筑物有关的术语。其中涉及对照明、温度/湿度控制和洒水装置等公共设施、以及现场操作管理等所必需的任何办公设备的要求。

14. 环境

包含与管理环境排放物排出、控制或回收活动及所有废物(无害和有害的)处理和处置相关的术语。

15. 财务/采购

包含与会计活动和管理工资、顾客帐户、采购方式以及类似部门功能或活动有关的术语。

16. 存货/发货

包含与材料、零部件和产品进出厂的搬运、贮存和处置有关的术语，其中涉及用于管理记帐、搬运、存放和分发的文件和控制系统。

17. 顾客/供方关系

包含涉及解决顾客的问题或顾客满意度、以及供方选择或供方评估方针的术语。

18. [留作将来扩展]**19. 其他(管理方面)**

包含与特殊管理问题有关的术语，这些术语难以归入已有主题。应该注意到，在使用主题“其他”时，包括在其中的术语应该是特殊的和互不相关的。

2. 电子封装工程和设计**20. 通用(工程和设计方面)**

包含描述工程和设计原理及策略所需的术语，涉及面向制作、组装和测试的设计领域，以及实现信息流顺畅转换的自动工具。

21. 工程

包含与工程设计相关的术语，包括但不仅限于工程工作站(CAE)软件和方法及硬件技术、传播延迟分析、串扰分析、介质损耗预测、阻抗控制分析、布尔逻辑转换、直接数据传输、热损耗预测等方面。

22. 印制板和印制板组件设计

包含与印制板和印制板组件有关的术语。其中涉及但不仅限于计算机辅助设计(CAD)设备和软件算法，如设计规则检查、CAE工作站直接输入、逻辑门分配或逻辑门交换、固定网格压锁、强力场元器件控制、热敏分析、多向导体布线。

23. 分组件设计

包含与为实现一项电气或电子机械功能由一组元器件组合而成的分组件设计相关的术语。其中涉及但不仅限于计算机自动工具(CAE/CAD)、小型

印制电路、混合电路、多芯片模块和其他产品的设计，且涉及由计算机硬件/软件进行的所有布局原理和技术评价。

24. 照相底片生成和照相过程

包含与用于生成电路要素过程的底片有关的术语，电路要素包括主动和被动元器件，以及与生成照相图像转移过程中所用的材料及设备有关的术语。涉及接触与非接触技术、直接与间接(激光像素转移)技术。

25. 电子生产数据生成

包含描述将设计数据转换为制造数控工具的技术及数据格式所涉及的方法所需要用到的术语。其中涉及软件和硬件及转移媒介，如调制解调器、磁盘/磁带、光盘只读存储器和直接电缆连接。

26. 技术文件

包含与硬拷贝和电子媒介有关的术语，涉及到零件图、装配图、规范控制图、技术手册、规范、标准、材料清单，以及电子设备整个使用寿命期内提供物流支持或控制所需要的任何其他信息。

27. [留作将来扩展]**28. [留作将来扩展]****29. 其他(工程和设计方面)**

包含与特殊的工程和设计原理与技术相关的术语，这些术语难以归入已有主题。应该注意到，在使用主题“其他”时，包括在其中的术语应该是特殊的和互不相关的。

3. 电子封装元器件**30. 通用(元器件种类方面)**

包含描述物理、机械和电气元器件特性需要用到的术语，涉及在开发电子组件中所用的电子、电子机械和机械元器件的封装类型与安装特性。

31. 分立及IC通孔元器件封装

包含与轴向引线与径向引线的通孔插装主动元器件及被动元器件的特性和封装形式有关的术语，以及为适合组装或消除应力所需要的引线整形规范有关的术语。其中涉及但不仅限于电阻、电容、晶体管、单列与双列直插封装、针栅阵列、扼流线圈、变压器、继电器、连接器、连接器插座等。

32. 分立表面安装元器件封装

包含与有引线和无引线的分立(单一功能)表面贴装元器件性能和封装形式有关的术语。其中涉及但不仅限于片式电阻/电容、片式钽电容、金属化端面元器件、小外形晶体管、二极管、线圈、扼流线圈、测试点、连接器插座等。

33. 表面安装IC封装类型

包含与可在单个半导体芯片内提供集成逻辑(多个)功能的元器件性能与封装形式有关的术语，要将这类元器件灌封以保护芯片，以使其在引线整形或引线/端子其它准备后用于表面贴装。这种元器件的引脚或端子形式在处理之后为表面安装做了准备。其中涉及但不仅限于小外形I/C、陶瓷扁平封装、塑料四边封装、有引线和无引线芯片载体、薄小外形封装、灌封TAB、专用光纤器件等。

34. 格栅阵列封装

包含与可在单个半导体芯片内提供集成逻辑(多个)功能、且具有高引线数能力的元器件性能与封装形式有关的术语，要将这类元器件灌封以保护芯片，以备用于安装。其中涉及但不仅限于球栅、柱栅和盘栅阵列。

35. 裸芯片和芯片级元器件

包含与裸芯片或增强型芯片(芯片级)元器件性质有关的术语。涉及规定键合位置所必须的性能要求和工艺细节，以及无保护裸芯片互连方法所包括的其它金属层。

36. 元器件与元器件引脚/端子材料特性

包含规定元器件封装加工中所用材料所必需的术语。其中涉及但不仅限于灌封或密封材料、形成引线或端子所用金属、电镀材料、塑料、导电/非导电粘合剂等。

37. 金属线和电缆的元器件

包含与电子、机电元器件布线、布线线束及布电缆有关的术语。其中涉及散热特性、功率损耗、公差和性能差异。

38. [留作将来扩展]

39. 其他(元器件性质方面)

包含与电子、电子机械和机械元器件的特殊物理、机械和电气元器件特性有关的术语，这些术语难以归入已有主题。应该注意到，在使用主题“其

他”时，包括在其中的术语应该是特殊的和互不相关的。

4. 电子封装材料

40. 通用(材料方面)

包含描述材料以及它们的特性、贮存和处置要求所需要用到的术语。这些材料为互连结构或互连结构组件的一部分。工艺消耗材料不包括在本类术语中，这类术语归在应用其的工艺中。

41. 刚性印制板基板材料(有机)

包含与刚性印制板制造中所用层压、覆箔和未覆箔材料有关的术语。其中涉及但不仅限于酚醛、环氧(多官能、四官能、BT树脂)、氰酸酯、PTFE(聚四氟乙烯)、聚酰亚胺等，纸增强材料、玻璃(纤维毡、纤维和编织布)等(见44)。

42. 挠性印制板基板材料(有机)

包含与挠性及刚挠性印制板制造中所用层压、覆箔和未覆箔材料有关的术语。其中涉及但不仅限于聚酰亚胺薄膜(挤压和浇铸)、聚酯薄膜、PTEE(未增强)等，以及丙烯酸、环氧和其他粘合剂。

43. 互连结构用无机基板

包含与设计和制造印制板及其他互连结构所用基板材料有关的术语。这类印制板及其他互连结构需要无机材料具有热稳定性或尺寸稳定性。其中涉及但不仅限于氧化铝、氧化铍、玻璃、瓷化殷钢、铜钼等。

44. 增强/抑制芯/散热材料

包含在生产印制板或互连结构中用作增强或添加有机基板材料外层的材料有关的术语。其中涉及但不仅限于纸毡、玻璃毡、玻璃布、不规则玻璃纤维、复合物、芳酰胺纤维、石英、石墨、殷钢等。

45. 导电材料(金属箔、膜或镀层)

包括在材料或印制板制作过程中加在有机和无机互连结构上金属覆箔有关的术语。也包括与描述以加成法生产导电表面、平面或零件所用镀敷或网印金属材料有关的术语。

46. 元器件固定材料(导电/非导电)

包含与将电子、电子机械或机械元器件固定到在互连结构上所用材料有关的术语。其中涉及但不仅限于焊料、焊膏、导电粘合剂、绒毛搭扣等。

47. 涂层和永久性掩膜材料

包含与永久性掩膜与涂层材料有关的术语。这类材料将成为印制板、互连结构或其组件的固定部分。其中涉及但不仅限于环氧涂层、丙烯酸、干膜和液态阻焊膜、聚氨酯涂层、油墨等。

48. [留作将来扩展]**49. 其他(材料方面)**

包含与特殊的材料属性、特性、处置或存放有关的术语，这些术语难以归入已有主题。应该注意到，在使用主题“其他”时，包括在其中的术语应该是特殊的和互不相关的。

5. 互连结构制作工艺**50. 通用(互连结构制作工艺)**

包含描述互连结构制作工艺需要用到的术语，该工艺涉及导体形成、分层、导电孔形成、结构外形或用于制造未组装的安装及互连结构所用的其他制作工艺。

51. 机械加工

包含与用于实现互连结构的制造技术、工艺消耗材料和设备有关的术语。其中涉及但不仅限于孔形成、铣削、冲切、剪裁等。

52. 抗蚀剂和油墨的成像与涂敷

包含与从照相底片(见25)直接或间接转移为互连结构的图形转移技术、电路保护方法、材料和设备有关的术语。除了涉及不同类型(蚀刻、电镀、焊锡)的抗蚀剂外，该类术语还涉及但不仅限于用来转移图例或字符的材料、方法和设备。

53. 金属沉积工艺，包括电镀

包含与制作工艺有关的术语。该制作工艺涉及与通过干法或湿法电镀、化学镀或电镀方法沉积金属有关的互连基板(见45.)、工艺消耗材料、技术和设备。该类术语还涉及但不仅限于表面电镀和沉积、以及通孔、盲孔、埋孔等孔的导电性形成。

54. 材料去除工艺，包括蚀刻

包含与导电和非导电特性形成过程中所涉及的制作技术、工艺消耗材料、材料处理和回收及设备有关的术语。其中涉及但不仅限于铜蚀刻、去钻污(等离子蚀刻、硫酸等)、机械磨削等。

55. 层压、顺序沉积及模制工艺

包含与制作印制板或互连结构时所使用的层压及模制技术、材料、用于组合导电或非导电材料层的设备有关的术语。

56. 热固化/烘烤工艺

包含在有机和无机印制板或互连结构制作中所使用的术语，这类印制板或互连结构要求特殊的加热、红外或烘烤工艺，而这些工艺是硬化或聚合要素或平面所必须的。

57. 清洗和化学处理加工

包含在未组装印制板或互连结构的清洗工艺中用到的技术、材料、规则及设备所用术语。其中涉及但不仅限于溶剂技术、水清洗技术、水/溶剂组合、在线设备、静态皂化、蒸汽脱脂以及超声波等。

58. [留作将来扩展]**59. 其他(互连结构制造过程)**

包含与特殊的互连结构制作工艺有关的术语，这些术语难以归入已有主题。应该注意到，在使用主题“其他”时，包括在其中的术语应该是特殊的和互不相关的。

6. 电子封装互连结构类型和性能**60. 通用(互连结构类型和性能)**

包含描述互连构件类型及其性能要求需要用到的术语，涉及各种封装类型的描述或本类术语中描述的各种产品的性能问题。

61. 刚性印制板(有机基板)

包含与由刚性基板材料(见41)制成的有和无镀覆孔和/或导通孔的单面、双面及多层印制板有关的术语。

62. 挠性印制板(有机基板)

包含与由挠性基板材料(见42)制成的有和无镀覆孔和/或导通孔的单面、双面及多层印制板有关的术语。

63. 刚挠印制板(有机基板)

包含与由刚性或挠性基板材料(见41和42)组合制成的有和无镀覆孔和/或导通孔的单面、双面及多层印制板有关的术语。

64. 分立线路板(有机基板)

包含与采用61、62或63中所述相同技术制成、但为了实现电气或电子互连再用其他材料、和/或分立导线作补充的印制板有关的术语。

65. 印制板(无机基板)

包含与由无机基板材料(见41)制成的有和无镀覆孔和/或导通孔的单面、双面及多层印制板有关的术语。

66. 模制结构(三维立体)

包含与三维特性的互连结构有关的术语。为了形成安装和或互连结构，在模制工艺中用有机树脂材料(塑料)形成这类安装和/或互连结构。

67. 混合/多芯片模块互连结构

包含与用作分组件的单面、多面或多层混合(陶瓷)电路或模块有关的术语。这类分组件可互连一个以上芯片或改进型(芯片级封装)半导体芯片。

68. [留作将来扩展]**69. 其他(互连结构种类和性能方面)**

包含与特殊的互连结构类型或其性能要求有关的术语，这些术语难以归入已有主题。应该注意到，在使用主题“其他”时，包括在其中的术语应该是特殊的和互不相关的。

7. 互连结构组装工艺**70. 通用(组装过程方面)**

包含描述组装工艺需要用到的术语，组装工艺涉及元器件处置、放置和连接方面，以及清洗和涂覆工艺要求。

71. 元器件处置、存放和准备

包含为完成组件安装和连接工艺所必需的处置、存放和引线、端子或元器件本体准备有关的术语。包括但不仅限于烘干、上锡、引线折弯、环境控制、上料、存货控制等。

72. 通孔元器件插装

包含与通孔元器件插装有关的术语。这类元器件是通过将元器件引线穿过结构而实现与互连结构的连接。其中涉及但不仅限于与该工艺相关的技术、原理、数据传输、设备等。

73. 表面元器件贴装

包含与表面贴装元器件安装有关的术语。这类元器件是将引线或端子粘合在表面而实现与互连结构的连接。其中涉及但不仅限于与该工艺相关的贴装技术、原理、数据传输、设备等。

74. 裸芯片放置和连接

包含与裸芯片或改进型(芯片级封装)半导体芯片(见35)与无机及有机互连结构的连接和键合有关的术语。其中涉及但不仅限于混合电路、多芯片模块(MCM-L、-C或-D)以及板上芯片直装。

75. 连接技术

包含与将成品元器件与互连结构完全连接所采用的方法学、技术、工艺消耗材料及设备有关的术语。其中涉及但不仅限于再流焊接、机械焊接、电气/冶金连接(熔焊、金属线键合)、导电粘合剂连接等。

76. 清洗和敷形涂覆工艺

包含与清洗制程中或成品互连基板组件所采用的方法、工艺消耗材料、废料处置以及设备有关的术语，以及与敷形涂覆组件所采用的工艺、材料和设备有关的术语。

77. 返工、返修和修正

包含与在互连结构中去除、更换或添加元器件、或更正/改变电路要素所采用的技术、工具、材料与设备有关的术语，以及与将组件修复至其正常功能有关的术语。

78. [留作将来扩展]**79. 其他(组装过程方面)**

包含与特殊的组装、清洗或涂覆工艺有关的术语，这些术语难以归入已有主题。应该注意到，在使用主题“其他”时，包括在其中的术语应该是特殊的和互不相关的。

8. 电子封装互连结构组件类型和性能**80. 通用(组件类型和性能方面)**

包含描述组件类型及其性能要求所需要用到的术语，涉及本类术语中规定产品的电子组件类型性质或相关的性能要求。

81. 刚性印制板组件(有机基板)

包含与成品刚性印制板组件的性能要求和性质有关的术语，该类组件在结构的一面或两面安装了电子、电子机械或机械元器件。

82. 挠性/刚挠性印制板组件(有机基板)

包含与成品挠性或刚挠性印制板组件的性能要求和性质有关的术语，该类组件有连续挠曲或挠曲安装的功能，且在结构的一面或两面安装了电子、电子机械或机械元器件。

83. 无机(陶瓷、金属芯等)印制板组件

包含与成品印制板组件或互连结构的性能要求和性质有关的术语，该类组件或互连结构由无机材料制成，在结构的一面或两面安装有元器件。

84. 模制或三维印制板组件

包含与模制平面或三维互连结构的性能要求和性质有关的术语，该结构的任何一面或所有面上安装有电子、电子机械或机械元器件。

85. 背板

包含与成品背板(母板)组件的性能要求和性质有关的术语，该板的一面或两面有连接器和/或其他元器件，其将用于互连两块或更多的其它印制板组件。

86. 多芯片模块

包含与分组件的性能要求和性质有关的术语，该分组件将裸芯片或改进型芯片(芯片级)组装在安装及互连结构的任一面或两面以及里面。这种互连结构可以由有机材料(MCM-L)、陶瓷/陶瓷玻璃材料(MCM-C或混合型)制成，或用沉积的电介质以隔离导电层的无机材料(MCM-D)组成。

87. [留作将来扩展]**88. [留作将来扩展]****89. 其他(组装类型和性能方面)**

包含与特殊的组件类型或其性能要求有关的术语。这些术语难以归入已有主题。应该注意到，

在使用主题“其他”时，包括在其中的术语应该是特殊的和互不相关的。

9. 电子封装、制作和组装的质量和可靠性**90. 通用(质量与可靠性方面)**

包含描述功能的质量和/或可靠性方面所有用到的术语。其中功能涉及工艺的设计、制作、组装、测试和管理功能。

91. 过程控制/SPC

包含与为确保工艺变异保持在可接受的范围内、以及为建立控制的能力及持续改进工艺连续监测工艺变异所使用的技术、方法、工序及设备有关的术语。

92. 检验/测试

包含与为验证所收到的材料与产品是否满足预定用途所使用的技术、方法、工序及设备有关的术语。也包含与为确定质量和可靠性在测试期间所进行的预处理(例如烘烤)、试验及环境与应力条件有关的术语。

93. 可靠性因素与方法

包括与用来确定和预测材料、元器件、互连结构及组件/分组件可靠性的方法、规则、算法有关的术语。

94. 质量管理和保证

包含与评估制造商工艺或其产品的质量所采用的方法、工序、技术、系统及设备有关的术语。其中涉及但不仅限于质量保证检验、过程检验、过程控制、ISO9000标准等。

95. 元器件质量和可靠性

包含与为确定电子、电子机械或机械元器件是否足以承受组装、清洗及涂敷工艺，以及组装后在设备的预期使用环境中能否满足设备预期可靠性要求而准备的技术、方法、工序和设备有关的术语。

96. 互连结构质量和可靠性

包含与为确定未组装的互连结构是否足以承受组装、清洗及涂敷工艺，以及组装后在设备的预期使用环境中能否满足设备预期可靠性要求而准备的技术、方法、工序和设备有关的术语。

97. 电子组件/分组件质量和可靠性

包含与为确定电子组件或分组件(模块)是否足以承受任何设备测试,以及当设备用于预期使用环境下组件能否以可靠的方式正常运转满而准备的技术、方法、工序和设备有关的术语。

98. [留作将来扩展]**99. 其他(质量可可靠性方面)**

包含与特殊的质量或可靠性方面有关的术语。这些术语难以归入已有主题。应该注意到,在使用主题“其他”时,包括在其中的术语应该是特殊的和互不相关的。

附录C

术语分类编码排序

1 Administration		14.0027	Air Pollution 空气污染
管理		14.2024	Scavenged Air 净化空气
11 Data Processing			
数据处理			
11.0046	Architecture 体系结构	16	Inventory/Shipping 库存/发运
11.0050	Artificial Intelligence 人工智能	16.2174	Traceability 可追溯性
11.0058	Assembly Language 汇编语言	16.2175	Serial Number 序列号
11.0094	Batch Processing 批处理	17	Customer/Vendor Relations 顾客与供方关系
11.0102	Benchmark, Computer 计算机基准	17.0095	Batch Size 批量
11.0232	Compiler 编译程序	17.0191	Certification 认证
11.0244	Computer Numerical Control (CNC) 计算机数字控制 (CNC)	17.0285	Contract Services 合同服务
11.0286	Control Console 操纵台	17.1429	Just-in-Time (JIT) 即时管理 (JIT)
11.0339	Database 数据库	17.2112	User 用户
11.0341	Data File 数据文件		
11.0343	Data Logging 数据记录	2	Engineering and Design for Electronic Packaging 电子封装工程与设计
11.0604	Hierarchical Database 分级数据库	20	General (Engineering and Design Issues) 通用 (工程和设计方面)
11.0732	Machine Language 机器语言	20.0028	Locating Edge 定位边
11.0800	Object-Oriented Database 面向对象数据库	20.0158	Bulls-Eye 靶心
11.0849	Algorithm 算法	20.0238	Component Hole 元器件孔
11.1114	Turnkey System 总成系统	20.0441	End Item 最终成品
11.1272	Runtime System 实时系统	20.0443	End Product 最终产品
11.1277	Scalar Processing 标量处理	20.0581	Ground 接地
11.1385	Download, Computer 计算机下载	20.0706	Library 库
14 Environmental		20.0709	Limits of Size 尺寸界限
环境		20.0710	Line 线
14.0026	Air Contamination 空气污物		

20.0715	Local Fiducial 局部基准点	21.0168	Bus 总线
20.0717	Locating Edge Marker 定位边标识	21.0173	Capacitance Density 电容密度
20.0718	Locating Hole 定位孔	21.0174	Capacitive Coupling 电容耦合
20.0719	Locating Notch 定位切口	21.0194	Characteristic Impedance 特性阻抗
20.0720	Locating Slot 定位槽	21.0213	Circuit 电路
20.0738	Manufacturing Hole 加工孔	21.0231	Compensation Circuit 补偿电路
20.0779	Mounting Hole 安装孔	21.0327	Crosstalk 串扰
20.0824	Pad 焊盘	21.0378	Dielectric Fluid 绝缘液
20.0837	Path(Electrical) 通路 (电气)	21.0380	Digital Circuit 数字电路
20.0838	Pattern 图形	21.0385	Dipole (Electronic) 偶极 (电子)
20.0839	Pattern Area 图形区	21.0396	Dissipation Factor 损耗因子
20.1066	Thermal Conductivity 热导率	21.0417	Edge Rate 前沿速率
20.1067	Thermal Mismatch (Expansion) 热膨胀不匹配	21.0422	Effective Permittivity 有效电容率
20.1192	Numerical Control (NC) (Computer Aided Design) 数控控制 (NC) (计算机辅助设计)	21.0431	Electromagnetic Interference (EMI) 电磁干扰 (EMI)
20.1377	Design Automation 设计自动化	21.0447	Equivalent Series Resistance (ESR) 等效串联电阻 (ESR)
20.1413	Ground Plane 接地层	21.0458	Excitation Current 励磁电流
20.1462	Packaging Density 封装密度	21.0473	Far-End Crosstalk 远端串扰
20.1726	Location Hole 定位孔	21.0489	Feature-Based Modeling 基于要素建模
21 Engineering 工程		21.0507	Finite-Element Modeling (FEM) 有限元建模 (FEM)
21.0005	Access Protocol 访问协议	21.0553	From-To List 接线表
21.0036	Amplitude, Voltage 电压振幅	21.0605	High-Impedance State 高阻抗状态
21.0037	Analog Circuit 模拟电路	21.0699	Leakage Current 泄漏电流
21.0060	Asymmetric stripline 不对称带状线	21.0711	Line Coupling 传输线耦合
21.0061	Attenuation 衰减	21.0713	Load Capacitance 负载电容
21.0072	Back Annotation 反向注解	21.0721	Logic 逻辑电路
		21.0726	Loss Tangent 损耗正切

21.0761	Microstrip 微带线	21.1332	Backward Crosstalk 反向串扰
21.0762	Microwave Integrated Circuit 微波集成电路	21.1333	Balanced Transmission Line 平衡传输线
21.0795	Near-End Crosstalk 近端串扰	21.1360	Computer Aided Engineering (CAE) 计算机辅助工程 (CAE)
21.0814	Open Circuit Potential 开路电势	21.1374	Current Carrying Capacity 载流量
21.0893	Power Dissipation 功耗	21.1375	Decoupling 退耦
21.0894	Power Factor 功率因数	21.1378	Dielectric Breakdown 介电击穿
21.0932	Signal 信号	21.1379	Dielectric Constant 介电常数
21.0946	Skin Effect 趋肤效应	21.2061	Static Electricity Control 静电控制
21.1006	Spurious Signal 寄生信号	21.1380	Dielectric Strength 介电强度
21.1028	Stripline 带状线	21.1381	Dimensional Stability 尺寸稳定性
21.1030	Stub 支线	21.1383	Dipole Moment 偶极矩
21.1037	Surge 电涌	21.1388	Edge Transition Attenuation 边沿传输衰减
21.1065	Thermal Coefficient of Expansion (TCE) 膨胀热系数 (TCE)	21.1398	Finite Element Analysis (FEA) 有限元分析 (FEA)
21.1084	Threshold 阀值	21.1406	Forward Crosstalk 正向串扰
21.1102	Transmission Cable 传输电缆	21.1423	Instrument Bus 测试仪器总线
21.1103	Transmission Line 传输线	21.1425	Insulation Resistance 绝缘电阻
21.1105	Tri-State 三态	21.1440	Logic Diagram 逻辑图
21.1143	Volume Resistivity 体积电阻率	21.1441	Logic Family 逻辑系列
21.1151	Waveguide 波导管	21.1451	Minimum Electrical Spacing 最小电气间隙
21.1171	Wiring Elementary 布线原理	21.1493	Propagation Delay 传输延迟
21.1177	Net 网络	21.1494	Pulse,Digital 数字脉冲
21.1178	Net List 网表	21.1499	Reflection, Signal Propagation 信号传播反射
21.1180	Node 节点	21.1527	Shielding, Electronic 电子屏蔽层
21.1190	Normal-Mode Rejection (NMR) 串模干扰抑制 (NMR)	21.1551	Truth-Table Testing 真值表测试
21.1259	Rise Time(Transition Duration) 上升时间 (过渡时间)	21.1556	Unbalanced Transmission Line 非平衡传输线
21.1300	Shield 屏蔽层	21.1652	Convection 对流

21.1653	Convection Controlled 受控对流	21.1999	Radiation, Long Wave, Infrared 长波红外线辐射
21.1654	Convection Forced 强制对流	21.2000	Radiation, Medium Wave Infrared 中波红外线辐射
21.1712	Electrical Resistance 电气阻抗	21.2001	Radiation, Near Infrared 近红红外线辐射
21.1716	Electrostatic Discharge (ESD) 静电放电 (ESD)	21.1206	Subnet 子网络
21.1742	Electrical Characteristics 电气特性	21.2003	Radiation, Re-mitted Infrared 红外再辐射
21.1776	Wave Length Spectrum 波长频谱	21.2004	Radiation, Short Wave Infrared 短波红外线辐射
21.1793	Alternating Current (ac) 交流电 (ac)	21.2005	Reflection Coefficient 反射系数
21.1794	Capacitance 电容	21.2006	Reflectivity 反射率
21.1795	Current 电流	21.2008	Relative Permittivity 相对电容率
21.1796	Direct Current (DC) 直流电 (DC)	21.2014	Return Loss 回波损耗
21.1797	Dual-Strip Line 双带状线	21.2035	Skin Depth 趋肤深度
21.1798	Effective Relative Dielectric Constant 有效相对介电常数	21.2060	Static Electricity 静电
21.1801	Impedance 阻抗	21.2061	Static Electricity Control 静电控制
21.1802	Inductance 电感	21.2062	Static Relative Permittivity 静态相对介电常数
21.1803	Permeability 导磁率	21.2073	Surface Resistance 表面电阻
21.1804	Power Plane Inductance 电源层电感	21.2080	Creepage Distance 爬电距离
21.1805	Resistance 电阻	21.2083	Thermal Expansion 热膨胀
21.1808	Farad 法拉	21.2084	Thermal Mismatch 热失配
21.1845	Flashover 飞弧	21.2086	Thermal Resistance 热阻
21.1856	Frequency (Electrical Current) 电流频率	21.2087	Thermal Shock Resistance 耐热冲击
21.1863	Heat Absorption Coefficient 吸收系数	21.2118	Visible Light (Band) 可见光 (波段)
21.1864	Heat Resistance 耐热性	21.2122	Water Vapor Transmission Rate (WVTR) 水蒸汽传输率 (WVTR)
21.1880	Insertion Loss 插入损耗	21.2123	Wavelength 波长
21.1918	Microwaves 微波	21.2079	Electrical Clearance 电气间隙
21.1961	Permittivity 电容率	22 Printed Board and Printed Board Assembly Design 印制板和印制板组件设计	
21.1998	Radiation, Infrared 红外辐射	22.0029	Automatic Component Placement 自动元器件布局

22.0030	Alignment Mark 对准标记	22.0266	Connector, One-Part 单件连接器
22.0040	Annotation 注解	22.0267	Connector, Two-Part 双件连接器
22.0049	Array 阵列	22.0269	Connector Area 连接器区
22.0051	Artwork 照相底图	22.0270	Connector Contact 连接器接触件
22.0061	Attenuation 衰减	22.0276	Contact Area 接触区
22.0071	Back-Bared Land 背裸连接盘	22.0281	Contact Spacing 接触间距
22.0076	Background (Artwork) 背景 (照相底图)	22.0287	Control Drawing 控制图
22.0115	Blind Via 盲孔	22.0297	Corner Marks 角标
22.0124	Automatic Conductor Routing 自动导体布线	22.0323	Crop Marks 剪切标记
22.0142	Border Area 边沿区	22.0325	Crosshatching 开窗口
22.0143	Border Data 边沿数据	22.0344	Datum 基准
22.0144	Boss 凸台	22.0345	Datum Feature 基准要素
22.0163	Buried Via 埋孔	22.0346	Datum Reference 基准参考
22.0178	Card-Edge Connector 卡边连接器	22.0360	Dependent of Feature Size 要素尺寸相关原则
22.0179	Card-Insertion Connector 插卡连接器	22.0362	Design-Rule Checking 设计规则检查
22.0215	Circuitry Layer 电路层	22.0363	Design Rule 设计规则
22.0223	Coined Lead 扁圆引线	22.0364	Design Spacing of Conductor Traces or Planes 导体线条或导体面的设计间距
22.0227	Comb Pattern 梳型电路	22.0365	Design Width of Conductor Trace or Plane 导体线条或导体面的设计宽度
22.0237	Component Density 元器件密度	22.0382	Dimensioned Hole 尺寸孔
22.0241	Component Side 元器件面	22.0388	Direct Dimensioning 直接尺寸标注
22.0251	Conductor 导体	22.0399	Don't Care Area 忽略区
22.0256	Conductor Line 导体线	22.0413	Edge-Board Contact(s) 板边接触片
22.0257	Conductor Path 导体路径	22.0414	Edge-to-Edge Spacing 边至边间距
22.0258	Conductor Pattern 导体图形	22.0419	Edge Spacing 边缘间距
22.0259	Conductor Side 导体面	22.0462	External Layer 外层
22.0261	Conductor Track 导体路线	22.0488	Feature 要素

22.0493	Fiducial (Mark) 基准 (标记)	22.0765	Minimum Annular Width 最小环宽
22.0505	Fingers 手指	22.0766	Minimum Annular Ring 最小孔环
22.0537	Flush Conductor 齐平导体	22.0805	Offset Land 偏置连接盘
22.0548	Footprint 印制焊脚	22.0806	Offset Terminal Area 偏置终端区
22.0549	Form 外形	22.0828	Parallel Pair 平行线对
22.0559	Gauge Precision 量具精密度	22.0848	Conductor Layer 导体层
22.0568	Geometric Tolerance 几何公差	22.0862	Pilot Hole 导向孔
22.0595	Heatsink Plane 散热层	22.0882	Polarizing Slot 极性槽
22.0610	Hole Density 孔密度	22.0887	Positional Tolerance 定位公差
22.0611	Hole Location 孔位	22.0897	Power Plane 电源层
22.0639	Independent of Size 尺寸独立原则	22.0915	Printed Contact 印制接触片
22.0640	Index Edge 标志边	22.0916	Printed Edge-Board Contact 印制板边接触片
22.0641	Index Edge Marker 标志边标识	22.0934	Signal Conductor 信号导体
22.0642	Indexing Hole 标志孔	22.0935	Signal Line 信号线
22.0643	Indexing Notch 标志口	22.0936	Signal Plane 信号层
22.0644	Indexing Slot 标志槽	22.0977	Solder Resist Aperture 阻焊剂开孔
22.0654	Interfacial Connection 面间连接	22.0978	Solder Side 焊接面
22.0658	Internal Layer 内层	22.0990	Spacing 间距
22.0659	Interstitial Via 中间孔	22.0994	Span 跨距
22.0677	Landless Hole 无连接盘孔	22.1042	Tab 片
22.0678	Land Pattern 连接盘图形	22.1052	Terminal Area 终端区域
22.0686	Layer-to-Layer Spacing 层间间距	22.1053	Terminal Clearance Hole 终端隔离孔
22.0695	Lead Mounting Hole 引线安装孔	22.1054	Terminal Hole 终端孔
22.0701	Least Material Condition (LMC) 最小材料条件 (LMC)	22.1055	Terminal Pad 终端焊盘
22.0745	Master Line 主传输线	22.1068	Thermal Relief 热隔离
22.0747	Maximum Material Condition (MMC) 最大材料条件 (MMC)	22.1094	Tooling Hole 定位孔

22.1098	Trace 轨迹	22.1373	Cumulative Tolerance 累积公差
22.1099	Track 路径	22.1414	Ground Plane Clearance 接地层隔离
22.1106	Trim Lines (Pattern) 外形线 (图形)	22.1427	Innerlayer Connection 层间连接
22.1110	True Position 准确位置	22.1432	Keying Slot 键槽
22.1111	True Position Tolerance 准确位置公差	22.1439	Legend 图例
22.1129	Unsupported Hole 非支撑孔	22.1453	Nonfunctional Interfacial Connection 非功能面间连接
22.1141	Voltage Plane Clearance 电压层间隙	22.1473	Pitch 间距
22.1184	Nonconductive Pattern 非导电图形	22.1475	Plated-Through Hole (PTH) 镀覆孔 (PTH)
22.1185	Nonfunctional Land 非功能连接盘	22.1484	Primary Side 正面
22.1186	Nonfunctional Terminal Area 非功能端子区	22.1517	Secondary Side 辅面
22.1201	Quasi-Interfacial Plated-Through Hole 准界面镀覆孔	22.1547	Tooling Feature 定位要素
22.1211	Supported Hole 支撑孔	22.1550	Trim Lines (Printed Board) 外形线 (印制板)
22.1216	Quasi-Interfacial Connection 准界面连接	22.1562	Via 导通孔
22.1232	Reference Edge 基准边	22.1563	Voltage Plane 电压层
22.1233	Reference Hole 基准孔	22.1595	Microvia (Build-Up Via) 微导通孔 (积层导通孔)
22.1236	Regardless of Feature Size 要素尺寸无关	22.1604	Base Material Thickness 基材厚度
22.1264	Router (CAD) 布线器 (CAD)	22.1614	Interlayer Connection 层间连接
22.1267	Rubber Banding 橡皮带式生成线	22.1621	Hole Pattern 孔图
22.1315	Registration Mark 重合标记	22.1622	Land 连接盘
22.1316	Reduction Marks 缩图标志	22.1624	Layer 层
22.1346	Center-to-Center Spacing 中心距	22.1638	Conductor Pitch 导体节距
22.1325	Anchoring Spur 盘趾	22.1644	Conformal Via 共形导通孔
22.1357	Component Mounting Orientation 元器件安装方向	22.1667	Datum Axis 基准轴
22.1359	Computer-Aided Design (CAD) 计算机辅助设计 (CAD)	22.1668	Datum Target 基准目标
22.1362	Conductive Pattern 导电图形	22.1707	Conductor Thickness 导体厚度
22.1372	Crossing Count 交叉数	22.1756	Metalized Land Areas 金属化连接盘区域

22.1773	Terminations 端子	22.2172	Conductor Trace 导体线条
22.1811	Clearance Hole 隔离孔	22.2173	Antipad 反盘
22.1812	Grid 网格	22.2081	Via Protection, Bumped 导通孔保护, 凸面
22.1822	Interconnection Density 互连密度	22.2082	Via Protection, Dimpled 导通孔保护, 凹面
22.1823	Attachment Density 组装密度	22.2083	Via Protection, Planarized 导通孔保护, 平整
22.1824	Circuit Density 电路密度	22.2182	High Density Interconnect (HDI) 高密度互连 (HDI)
22.1826	Via, Filled and Capped (Type VII Via) 填塞及遮蔽导通孔 (VII型导通孔)	24 Phototool Generation and Photographic Processes 照相底片制作和照相过程	
22.1827	Via, Filled and Covered (Type VI Via) 填塞及覆盖导通孔 (VI型导通孔)	24.0052	Artwork Master 照相原版
22.1828	Via, Filled (Type V Via) 填塞导通孔 (V型导通孔)	24.0078	Backlighting 背光
22.1829	Via, Plugged and Covered (Type IV Via) 堵塞及覆盖导通孔 (IV型导通孔)	24.0150	Brightness 光亮度
22.1830	Via, Plugged (Type III Via) 堵塞导通孔 (III型导通孔)	24.0230	Compensated Artwork 已补偿照相底版
22.1831	Via, Tented and Covered (Type II Via) 掩蔽及覆盖导通孔 (II型导通孔)	24.0242	Composite (Phototool) 组合底片 (底片)
22.1832	Via, Tented (Type I Via) 掩蔽导通孔 (I型导通孔)	24.0334	Cut-and-Peel 切割剥离
22.1878	Inner Layer 内层	24.0335	Cut-and-Strip 切割剥除
22.1893	Landless Via 无连接盘导通孔	24.0347	D Curve D曲线
22.1898	Laser Via 激光导通孔	24.0350	Definition (Phototool) 清晰度 (底片)
22.1963	Photo Via 光致导通孔	24.0356	Densitometer 显像密度计
22.1968	Plain Hole 平孔	24.0357	Density (Phototool) 光密度 (底片)
22.2036	Skip Via 跳孔	24.0361	Depth of Field (Optical) 景深 (光学)
22.2070	Stud Via 栓导通孔	24.0368	Developing (Phototool) 显影 (底片)
22.2085	Thermal Plane 散热层	24.0371	Diazo Material 重氮材料
22.2094	Through Connection 贯穿连接	24.0420	Effective Color Temperature 有效色温
22.2116	Capture Land (Via Top Land) 诱捕连接盘 (导通孔顶部连接盘)	24.0421	Effective Focal Length 有效焦距
22.2117	Target Land(Via Bottom Land) 目标连接盘 (导通孔底部连接盘)	24.0456	Photographic Image 底片图像
22.2140	X-Out 打叉	24.0633	Illuminance 照度
22.2147	Via Planarization 导通孔平整化	24.0634	Illumination 照明度

24.0727	Luminance 亮度	24.1040	System Effective Color Temperature 系统有效色温
24.0728	Luminous Energy 光能	24.1104	Transmittance 透光率
24.0729	Luminous Flux 光通量	24.1173	Working Master 工作原版
24.0746	Master Pattern 底版图形	24.1195	Optical Image 光学影像
24.0768	Mirrored Pattern 镜像图形	24.1197	Orthochromatic Emulsion 正色乳剂
24.0776	Molecular Dye-Imaging Material 分子染色成像材料	24.1205	Scribe Coat 划线涂层
24.0797	Negative 负片	24.1234	Reference Master 基准底图
24.0811	Opacity(Photographic) 不透明度 (照相)	24.1237	Registered Production Master 带定位生产底版
24.0825	Panchromatic Emulsion 全色乳剂	24.1243	Render True Color 呈现真色度
24.0851	Photographic Operation 照相作业	24.1252	Reversal Development 反转显影
24.0852	Photographic Plate 照相板	24.1257	Right Reading 右读
24.0853	Photomaster 照相原版	24.1270	Runout 累积误差
24.0854	Photometry 光度学	24.1279	Scribing 刻线
24.0855	Photoplotting 光绘	24.1308	Radiometry 辐射线测定
24.0858	Phototool 底片	24.1347	Characteristic Curve 特性曲线
24.0859	Phototooling 底片组	24.1355	Color Temperature 色温
24.0860	Phototooling Aid 辅助底片	24.1366	Contact Printing 接触成像
24.0864	Pinhole (Phototool) 针孔 (底片)	24.1369	Cosine Law (Illumination) 余弦定律 (照明)
24.0879	Plotting 绘图	24.1456	Opaquer 遮光剂
24.0888	Positive Pattern 正像图形	24.1470	Photographic Fog 照片灰雾
24.0896	Power of Source 源功率	24.1509	Resolving Power 解像力
24.0941	Single-Image Production Master 单个图像生产底版	24.1512	Right Reading Down 右读朝下
24.0955	Solarization 曝光过度	24.1513	Right Reading Up 右读朝上
24.1004	Spur 凸刺	24.1523	Shadowless Illumination 无影照明
24.1018	Step-and-Repeat 步进-和-重复	24.1537	Step Scale 光梯尺
24.1020	Step Wedge 感光级谱	24.1630	Color Selectivity 颜色选择性

24.1639	Negative Pattern 负像图形	25.0867	Pixel 像素
24.1642	Production Master 生产底版	25.0891	Postprocessing 后处理
24.1643	Multiple Image Production Master 多重图像生产底版	25.1176	Nesting 嵌套
24.1645	Multiple Pattern 拼图	25.1193	Numerical Control (NC) (Machining) 数字控制 (NC) (加工)
24.1791	Individual Test Pattern (ITP) 单独测试图形 (ITP)	25.1263	Rotational Error 旋转误差
24.1792	Composite Test Pattern (CTP) 组合测试图形 (CTP)	25.1265	Routing Mark 铣切标记
24.1943	Original Production Master 原始生产底版	25.1329	Automatic Dimensioning 自动尺寸标注
24.2101	Transmissivity 透射率	25.1358	Composite Record 组合记录
25 Electronic Production Data Generation 电子生产数据生成		25.1361	Computer-Aided Manufacturing (CAM) 计算机辅助制造 (CAM)
25.0228	Comment Record 注释记录	25.1411	Gerber Data 格柏数据
25.0246	Conditional End-of-Test 有条件测试结束	25.1482	Postprocessor 后处理程序
25.0254	Conductor Layer No.1 第一层导体层	25.1729	Alphanumeric 字母数字
25.0337	Data-Entry Device 数据输入设备	26 Technical Documentation 技术文件	
25.0338	Data-Information Module (DIM) 数据信息模块 (DIM)	26.0086	Baseline Dimensioning 基线尺寸标注
25.0340	Data Capture 数据获取	26.0192	Chain Dimensioning 链式尺寸标注
25.0342	Data Layer 数据层	26.0404	Drafting Image 绘制图像
25.0381	Digitizing (CAD) 数字化 (CAD)	26.0434	Elementary Diagram 接线原理图
25.0398	Distributed Numerical Control (DNC) 分布式数控 (DNC)	26.0444	Engineering Drawing 工程图
25.0490	Feature-Location Record 要素位置记录	26.0743	Master Dot Pattern 点总图
25.0664	Job Set 作业包	26.0744	Master Drawing 设计总图
25.0716	Local Intelligence 局部智能	26.0826	Panel Drawing 制板文件
25.0735	Manhattan Distance 曼哈顿距离	26.1091	Tolerance 公差
25.0736	Manual Data Input 人工数据输入	26.1092	Toleranced Dimension 带公差尺寸
25.0773	Modal Form 模态格式	26.1107	Schematic Diagram 原理图
25.0801	Object Code 目标代码	26.1175	X Axis X轴
25.0829	Parameter Record 参数记录	26.1231	Reference Dimension 参考尺寸

26.1260	Roadmap 标识图	3 Components for Electronic Packaging 电子元器件及其封装
26.1303	Y Axis Y轴	30 General (Component Description Issues) 通用 (元器件种类方面)
26.1328	Assembly Drawing 组装图	30.0016 Active Device 主动 (有源) 器件
26.1335	Basic Dimension 理论正确尺寸	30.0019 Add-On Component 外加元器件
26.1486	Printed Board Assembly Drawing 印制板组装图	30.0053 Package Cover 封装外壳
26.1532	Specification Drawings 技术图纸	30.0236 Component 元器件
26.1572	Bilateral Tolerance 双向公差	30.0240 Component Pin 元器件插针
26.1634	Manufacturing Drawing 加工图	30.0369 Device 器件
26.1725	Fabrication Allowance 制作余量	30.0392 Discrete Component 分立元器件
26.1740	Detail Specification 详细规范	30.0397 Active Desiccant 活性干燥剂
26.1778	Basic Specification (BS) 基础规范 (BS)	30.0436 Embedded Component 埋入式元器件
26.1779	Customer Detail Specification (CDS) 客户详细规范 (CDS)	30.0594 Heatsink 散热片
26.1780	Capability Detail Specification (CapDS) 能力详细规范 (CapDS)	30.0681 Large-Scale Integration (LSI) 大规模集成电路 (LSI)
26.1781	Detailed Specification (DS) 详细规范 (DS)	30.0757 Microcircuit 微电路
26.1782	Generic Specification (GS) 总规范 (GS)	30.0759 Microelectronics 微电子学
26.1783	Sectional Specification (SS) 分规范 (SS)	30.0777 Monolithic Integrated Circuit 单片集成电路
26.1809	Z Axis Z轴	30.0821 Package Cap 封装装置
26.1916	Micron 微米	30.0822 Package Lid 封装盖
26.1935	Nominal 标称	30.0844 Perimeter Sealing Area 周边密封区
26.1936	Nominal Value 标称值	30.0872 Plastic Device 塑封器件
26.2097	Tolerance, Statistical 统计公差	30.1031 Stud-Mount Termination 直装端子
26.2111	Unilateral Tolerance 单向公差	30.1034 Surface Mount Component (SMC) 表面贴装元器件 (SMC)
26.2084	AABUS (As Agreed Upon Between User and Supplier) AABUS (由供需双方协商确定)	30.1069 Thermal Shunt 热分流
		30.1289 Semiconductor 半导体
29 Other (Engineering and Design Issues) 其它 (工程和设计方面)		30.1356 Component Lead 元器件引线
29.0034	Ambient 环境	30.1426 Integrated Circuit 集成电路

30.1460	Package 封装	31 Discrete and IC Through-Hole Component Packages 分立和IC通孔元器件封装
30.1468	Passive Component (Element) 被动（无源）元器件（元素）	31.0067 Axial Lead 轴向引线
30.1520	Separable Component Part 可分离元器件部件	31.0942 Single-Inline Package (SIP) 单列直插封装（SIP）
30.1559	Very Large Scale Integration (VLSI) 甚大规模集成电路	31.1224 Leaded Chip Carrier 有引线芯片载体
30.1596	Bulk Packaging 散装	31.1273 Sacrificial-Foil Laminate 牺牲箔层压板
30.1605	Carrier 载体	31.1387 Dual-Inline Package (DIP) 双列直插封装（DIP）
30.1606	Cartridge 料盒	31.1611 Ceramic Dual-Inline Package (CERDIP) 陶瓷双列直插式封装（CERDIP）
30.1679	Desiccant 干燥剂	31.1612 Ceramic Pin Grid Array 陶瓷针栅阵列
30.1704	Odd-Shape Chip Type Component 异形片式元器件	31.1965 Pin Grid Array (PGA) 针栅阵列（PGA）
30.1735	Component Thermal Masses 元器件热容量	31.1997 Radial Lead Component 径向引线元器件
30.1737	Cubic Components 立方体元器件	
30.1738	Cylindrical Components 圆柱形元器件	
30.1739	Date Code 日期码	32 Discrete Surface Mount Component Packages 分立表面贴装元器件封装
30.1754	Leadless Component 无引线元器件	32.0984 Solid-Tantalum Chip Component 固体钽片式元器件
30.1772	Surface Mount Device (SMD) 表面贴装器件（SMD）	
30.1848	Floor Life 现场寿命	33 I/C Package Types for Surface Mounting 表面贴装的I/C封装类型
30.1867	Hermetic (Sealed) 密封	33.0098 Beam Lead Device 梁式引线器件
30.1914	Exposure Time (Component) 暴露时间（元器件）	33.0100 Beam Lead 梁式引线
30.1924	Moisture Barrier Bag (MBB) 隔潮袋（MBB）	33.0182 Castellation 城堡形端子
30.1981	Polarized Component 极性元器件	33.0208 Chip Carrier 芯片载体
30.2011	Base Plane 基底面	33.0295 Coplanar Leads 共面引线
30.2026	Seating Plane 底座面	33.0523 Flat Pack 扁平封装
30.2153	Interposer 中介基板	33.0579 All Metal Package 全金属封装
30.2162	Integrated Passive Component 集成被动（无源）元器件	33.0689 Anode (BGA) 阳极（BGA）
30.2163	Passive Array 被动（无源）阵列	33.0692 Application Specific Integrated Circuit (ASIC) 专用集成电路（ASIC）
30.2164	Passive Network 无源网络	33.0694 Leadless Device 无引线器件
		33.0869 Planar-Mount Device 平面贴装器件
		33.1435 Leaded Surface-Mount Component 有引线表面贴装元器件

33.1436	Leadless Chip Carrier 无引线芯片载体	33.2159	Small Outline No-Lead (SON) 小外形无引线封装 (SON)
33.1437	Leadless Inverted Device 无引线倒置器件	33.2160	Small Outline Package (SOP) 小外形封装 (SOP)
33.1438	Leadless Surface Mount Component 无引线表面贴装元器件		
33.1573	Bipolar Device 双极器件	34.0751	Area Array 面阵列
33.1585	Bonding Pad (IC) 键合盘 (IC)	34.0976	Ball 焊球
33.1613	Ceramic QUAD Flat Pack (CQFP) 陶瓷方形扁平封装 (CQFP)	34.1086	Ball Array 球阵列
33.1656	Coplanarity 共面性	34.1096	Ball Grid Array (BGA) 球栅阵列 (BGA)
33.1835	QFP with Bumper (BQFP) 带护耳的QFP (BQFP)	34.1598	Bump 凸点
33.1836	Quad Flat Pack (QFP) 方形扁平封装 (QFP)	34.1599	Bump Array 凸点阵列
33.1837	Fine Pitch QFP 细间距QFP	34.1601	Bump Contact 凸点触点
33.1838	Fine-Pitch BGA/Chip Scale Package (CSP) 细间距BGA/芯片规模封装 (CSP)	34.2141	Cupping (BGA) 杯形 (BGA)
33.1868	High Density Plastic Quad Flat Pack 高密度塑料方形扁平封装	34.2142	Doming (BGA) 拱形 (BGA)
33.1891	Land Grid Array (LGA) 盘栅阵列 (LGA)	34.2184	Column Grid Array (CGA) 柱栅阵列 (CGA)
33.1971	Plastic Ball Grid Array (PBGA) 塑封球栅阵列 (PBGA)		
33.1972	Plastic Leaded Chip Carrier (PLCC) 塑封有引线芯片载体 (PLCC)	35.0151	Broken Pick 断纬
33.1973	Plastic QFP (PQFP) 塑封QFP (PQFP)	35.0205	Chip 芯片
33.1974	Plastic QUAD Flat Pack (PQFP) 塑封方形扁平封装 (PQFP)	35.0373	Dice 芯片群
33.2030	Shrink SOP (SSOP) 缩小型SOP (SSOP)	35.0375	Die 芯片
33.2034	Single Chip Package (SCP) 单芯片封装 (SCP)	35.0400	Doping 掺杂质
33.2077	Tape Carrier Package (TCP) 载带封装 (TCP)	35.0612	Alpha Particle α 粒子
33.2092	Thin QUAD Flat Pack (TQFP) 薄方形扁平封装 (TQFP)	35.0666	Junction Temperature 结温度
33.2093	Thin Small Outline Package (TSOP) 薄小外形封装 (TSOP)	35.0846	Known Good Die (KGD) 已知良好芯片 (KGD)
33.2136	Zigzag In-line Package 锯齿状直插封装	35.0949	Slice 薄片
33.2156	Quad Flat J-Lead (QFJ) 矩形扁平J形引线封装 (QFJ)	35.1122	Uncased Device 无外壳器件
33.2157	Quad Flat No-Lead (QFN) 矩形扁平无引线封装 (QFN)	35.1145	Wafer 晶圆
33.2158	Small Outline J-Lead (SOJ) 小外形J形引线封装 (SOJ)		

35.1685	Dicing 切片	36.0807	Omnibus Ring 公共环
35.1686	Die Paddle 芯片座	36.1025	Stress Relief 应力消除
35.1687	Die Pad 芯片焊盘	36.1033	Support Ring 支撑环
35.1688	Die Attached Pad 芯片连接盘	36.1164	Window (Carrier Tape) 窗口 (载带)
35.1689	Die Mount Pad 芯片安装盘	36.1337	Bellows Contact 扁簧接触件
35.1690	Die Shrink 芯片缩小	36.1345	Carrier Tape 载带
35.1696	Distance to Neutral Point (DNP) 距中点距离 (DNP)	36.1528	Single-Layer Carrier Tape 单层载带
35.1857	Frit (Semiconductor) 玻璃料 (半导体)	36.1546	Three-Layer Carrier Tape 三层载带
35.1931	Neutral Point 中点	36.1554	Two-Layer Carrier Tape 双层载带
35.1946	Paddle 焊盘垫	36.1666	Dambar 挡条
35.2037	Soft Error 软故障	36.1732	Butt Leads 垛形引线 (I形引线)
35.2108	Under Bump Metallization 凸点底部金属化	36.1741	Dissolution of Metallization 金属层溶蚀
35.2130	Wire Bond 金属线键合	36.1747	Gull Wing Leads 翼形引线
35.2154	Wafer Level Package (WLP) 晶圆级封装 (WLP)	36.1752	J-Leads J形引线
35.2155	System in Package (SiP) 系统级封装 (SiP)	36.1764	Rectangular Leads 矩形引线

36 Component and Lead/Termination Properties 元器件与引线/端子特性

36.0006	Accordion Contact 折叠式接触件
36.0017	Active Metal 活泼金属
36.0075	Backfill 回填
36.0243	Compression Seal 收缩密封
36.0424	Elastomeric Connector 弹性连接器
36.0590	Header (Module) 基座 (模块)
36.0688	Lead 引线
36.0696	Lead Pin 引线插针
36.0698	Lead Wire 引线
36.0785	Multilayer Carrier Tape 多层载带

36.1901	Lead Fingers 引线手指
36.1902	Lead Frame 引线框架
36.1921	Minimum Bump Pitch 最小凸点间距

37 Components for Wiring and Cabling 金属线和电缆的元器件

37.0106	Bifurcated Solder Terminal 双叉焊接接线柱
37.0145	Boss (Connector) 凸台 (连接器)
37.0169	Bus Bar 汇流条
37.0203	Chemical Wire Stripping 化学剥线
37.0218	Closed-Entry Contact 闭口接触件
37.0220	Coaxial Cable 同轴线缆

37.0265	Connector 连接器	37.0809	One-Piece Connector 单件连接器
37.0268	Connector, Two-Part, Printed Board 印制板双件连接器	37.0813	Open-Entry Contact 开口接触件
37.0271	Connector Housing 连接器外壳	37.0880	Plug Connector 插塞式连接器
37.0272	Connector Tang 连接插头	37.0889	Post 端柱
37.0282	Contact Spring 接触弹簧	37.0905	Pressfit Contact 压合接触件
37.0318	Crimp Contact 压接接触件	37.0954	Socket Contact 插座接触件
37.0329	Cup Solder Terminal 焊锡杯	37.0980	Solder Terminal 焊接接线柱
37.0405	Drain Wire 加蔽线	37.0992	Spade Contact 铲形接触件
37.0412	Edge-Board Connector 板边连接器	37.1014	Standoff Solder Terminal 高脚焊接接线柱
37.0466	Eyelet 空心铆钉	37.1023	Strain Relief (Connector) 释力夹 (连接器)
37.0486	FCC System FCC系统	37.1051	Terminal 接线柱
37.0518	Fixed Contact 固定接触件	37.1115	Two-Piece Contact 两件式接触件
37.0522	Flat Cable 扁平电缆	37.1167	Wiping Action 滑触作用
37.0533	Floating Bushing 浮动衬套	37.1239	Scoop-Proof Connectors 防划损连接器
37.0583	Guide Pin 引导销	37.1242	Removable Contact 可移动接插件
37.0589	Header (Connector) 接插件 (连接器)	37.1255	Ribbon Cable 带状电缆
37.0602	Hermaphroditic Contact 等同接合接触件	37.1256	Ribbon Interconnect 带状互连
37.0606	High-Voltage Wire 高压线	37.1299	Sheet-Metal Contact 金属片接触件
37.0619	Hook Solder Terminal 钩形焊接接线柱	37.1313	Receptacle Connector 插座式连接器
37.0653	Interface Resistance 界面电阻	37.1338	Birdcage 呈鸟笼状散开的导线
37.0665	Jumper Wire 跳线	37.1405	Fork Contact 叉形接触件
37.0668	Key 锁键	37.1420	Insert (Connector) 嵌入物 (连接器)
37.0669	Keyway 键销槽	37.1430	Keying (n.) 锁定键 (名词)
37.0683	Latch (Connector) 弹簧锁 (连接器)	37.1431	Keying (v.) 键锁定 (动词)
37.0731	Machined Contact 机械接触件	37.1469	Perforated (Pierced) Solder Terminal 穿孔焊接接线柱
37.0739	Margin (Flat Cable) 边距 (扁平电缆)	37.1552	Turret Solder Terminal 塔形焊接接线柱

37.1567	Wire Stripping 剥线	40.1544	Thermoset 热固性塑料
37.2029	Semi-Rigid Cable 半刚性电缆	40.1590	Brown Streak (Base Materials) 棕色条纹 (基材)
37.2039	Solder Contact 焊接接触件	40.1591	Brown Thread (Base Materials) 棕色丝 (基材)
		40.1602	Burnt Resin (Base Materials) 烧焦树脂 (基材)
4	Materials for Electronic Packaging 电子封装材料	40.1616	Chemical Resistance 耐化学性
40	General (Material Issues) 通用 (材料方面)	40.1635	Conductance 电导
40.0035	Amorphous Polymer 无定形聚合物	40.1661	Creep Endurance 耐蠕变性
40.0087	Absorptivity, Infra-red 红外吸光率	40.1675	Density (Material) 密度 (材料)
40.0091	Basis Material 基体材料	40.1684	Dewetting (Base Materials) 半润湿 (基材)
40.0183	Catalyst (Resin) 催化剂 (树脂)	40.1721	Epoxy Resin 环氧树脂
40.0221	Coefficient of Thermal Expansion (CTE) 热膨胀系数	40.1727	Absorption Coefficients 吸收系数
40.0250	Conductivity (Electrical) 电导率	40.1800	Flat Conductor 扁平半导体
40.0316	Creep 蠕变	40.1813	Insulation 绝缘体
40.0326	Crosslink 交联	40.1842	Flame Resistance 耐燃性
40.0328	Crystalline Polymer 晶体聚合物	40.1843	Flame Retardance 阻燃性
40.0377	Dielectric 电介质	40.1844	Flammability 可燃性
40.0383	Dimorphism 双晶现象	40.1885	Isotropy 各向同性
40.0685	Anisotropy 各向异性	40.1917	Microwave Laminate 微波层压板
40.0870	Plastic 塑料	40.1923	Moisture Absorption 吸湿性
40.0871	Plastic Deformation 塑性变形	40.1925	Moisture Resistance 防潮性
40.0884	Polymerize 聚合	40.2002	Pallet (Printed Board) 拼托板 (印制板)
40.1071	Thermoplastic 热塑性塑料	40.2018	Rheology 流变学
40.1246	Resin 树脂	40.2053	Specific Gravity 比重
40.1334	Base Material 基材	40.2082	Thermal Cure 热固化
40.1471	Base Film (Flexible Circuits) 基膜 (挠性电路)	40.2107	Ultraviolet Cure 紫外线固化
40.1479	Polymer 聚合物	40.2169	Conductivity (Thermal) 热导率

41 Rigid Printed Board Substrate Materials (Organic)		
刚性印制板基板材料（有机）		
41.0069 B-Staged Material B阶材料	41.1463	B-Stage B阶
41.0070 B-Staged Resin B阶树脂	41.1505	Panel 在制板
41.0111 Bismaleimide 双马来酰亚胺	41.1507	Resin-Rich Area 富树脂区
41.0112 Bismaleimide Triazine 双马来酰亚胺三嗪	41.1583	Resin-Starved Area 缺树脂区
41.0114 Blends 混合物	41.1609	Board Thickness 板厚
41.0152 Brominated Epoxy 溴化环氧树脂	41.1657	Metal-Clad Base Material 覆金属箔基材
41.0170 Butter Coat 厚涂层	41.1658	Copper Thickness 铜厚
41.0171 C-Staged Resin C阶树脂	41.1706	Copper Weight 铜重
41.0374 Dicyandiamide 双氰胺	41.1743	Dry Glass (Clad Laminate) 干玻（覆箔层压板）
41.0393 Dispersant (Organosol) 分散剂（有机溶剂）	41.1962	Epoxy Glass Substrate 环氧玻璃基板
41.0394 Disperse Phase (Suspension) 分散相（悬浮）	41.1967	Phenolic Resin 酚醛树酯
41.0395 Dispersing Agent 分散剂	41.2016	Pin-Hole (Base Materials) 针孔（基材）
41.0438 Adhesive Coated Substrate 涂胶基板	41.2066	Reverse-Treated Core 反向处理芯板
41.0445 Epoxy Novolac 环氧酚醛	41.2124	Stress Relief (Clad Laminate) 应力消除（覆金属箔层压板）
41.0555 Functionality, Resin or Curing Agent 树脂或固化剂官能数	41.2148	Waviness, (Base Materials) 波纹（基材）
41.0673 Laminate Thickness 层压板厚度		Fabrication Panel 制作在制板
41.0752 Metal-Clad Laminate 覆金属箔层压板		
41.0819 Oxide Transfer 氧化物转移	42.0303	42 Flexible Printed Board Substrate Materials (Organic) 挠性印制板基材（有机）
41.0903 Preimpregnated Bonding Sheet 预浸粘结片	42.0304	Coverfilm 覆盖膜
41.0904 Prepreg 预浸材料	42.1982	Coverlay 覆盖层
41.1142 Volume Ratio (Composite) 体积比（复合材料）	42.1983	Polyester 聚酯
41.1207 Substrate 基板	42.2019	Polyimide 聚酰亚胺
41.1320 Adhesive-Coated Catalyzed Laminate 涂胶催化层压板	42.2137	Roll-to-Roll Process 成卷式生产工艺
41.1323 Adhesive-Coated Uncatalyzed Laminate 涂胶非催化层压板	42.2139	Service Temperature (Flexible Circuits) 工作温度（挠性电路）
41.1339 Blank 料板	42.2179	Covercoat 覆盖涂层
		Cover Material 覆盖材料

43 Inorganic Substrates for Interconnecting Structures 互连结构用无机基板		44.0596	Heavy Mark (Fabric) 厚段 (织物)
43.1730 Alumina Substrate 氧化铝基板		44.0702	Leno End Out 纱罗边毛边
		44.0708	Light Mark (Fabric) 薄段 (织物)
44 Reinforcement/Constraining Core/Heat Dissipation Materials 增强材料/夹芯/散热材料		44.0723	Loom Beam 织机经轴
		44.0741	Mark (Fabric) 织痕 (织物)
44.0045 Aramid 芳酰胺		44.0769	Mis-Pick 缺纬
44.0099 Beaming 并轴		44.0834	Passive Base Material 惰性基材
44.0105 Bias (Fabric) 纬斜 (织物)		44.0861	Pick 纬纱
44.0146 Bow (Fabric) 弓纬 (织物)		44.0868	Plain Weave 平纹编织
44.0273 Constraining Core 抑制芯		44.0878	Plied Yarn 合股线
44.0298 Coronizing 高温处理		44.0930	Shuttle 梭子
44.0315 Creel 经轴架		44.0948	Sizing 上浆
44.0355 Denier 丹尼尔		44.0999	Split (Fabric) 裂缝 (织物)
44.0423 E Glass E玻璃		44.1027	Stripback 断纱折回
44.0442 End Missing 断经		44.1032	Supporting Plane 支撑面
44.0487 Feather Length 毛边长度		44.1047	Tear (Fabric) 撕裂 (织物)
44.0496 Fill 纬线		44.1049	Tenter Frame 拉幅机
44.0497 Filler 填料		44.1112	Trumeter 精度测量计
44.0506 Finished Fabric 经处理织物		44.1127	Unfil 纡子
44.0516 Fish Eye 鱼眼		44.1148	Warper 整经机
44.0528 Flexural Strength 弯曲强度		44.1149	Warp Size 经纱上浆
44.0531 Float 跳线		44.1153	Waviness 波纹
44.0565 Gelation Particle 胶化颗粒		44.1202	Quill 线轴
44.0569 Glass Binder 玻璃粘合剂		44.1230	Reed 钢筘
44.0575 Grading Frame 分级系统		44.1266	Roving 粗纱
44.0578 Greige 生坯布		44.1284	Section Beam 接线轴
44.0591 Heat Cleaning 热清洗			

44.1288	Selvage 织边	45.0425	Electrodeposited Foil 电沉积金属箔
44.1464	Para-Aramid 对芳酰胺	45.0500	Film 膜
44.1516	Satin Weave 缎纹组织	45.0501	Film Conductor 膜导体
44.1564	Waste (Fabric) 废纱 (织物)	45.0546	Foil Profile 箔轮廓
44.1825	Embedded Fiber (Base Materials) 埋纤 (基材)	45.0638	Indentation 凹痕
44.1840	Fisheye (Prepreg) 鱼眼 (预浸材料)	45.1079	Thin Film 薄膜
44.1858	Glass Cloth 玻璃布	45.1080	Thin Foil 薄金属箔
44.1859	Glass Fabric 玻璃织物	45.1174	Wrought Foil 压延箔
44.1860	Glass Distortion (Base Materials) 玻璃扭曲 (基材)	45.1274	Sacrificial Protection 牺牲性保护
44.1861	Glass Yarn 玻璃纱	45.1459	Outgrowth 镀层增宽
44.1887	Knot (Base Materials) 节瘤 (基材)	45.1545	Thick Film 厚膜
44.1937	Nonwoven Glass Mat 无纺玻璃毡	45.1636	Conductive Paint 导电涂料
44.1985	Resin Particle (Base Material) 树脂颗粒 (基材)	45.1637	Conductive Paste 导电膏
44.1994	Quartz Fiber (Electrical Grade) 石英纤维 (电子级)	45.1700	Doubled-Treated Foil (DTF) 双面处理金属箔 (DTF)
44.2103	Treater Dirt (Base Materials) 浸胶异物 (基材)	45.1718	Embedded Copper (Base Materials) 埋铜 (基材)
44.2104	Treatment Transfer (Base Materials) 处理物转移 (基材)	45.1888	Kovar 科瓦铁镍钴合金
44.2125	Weave Style (Fabric) 编织类型 (织物)	45.1903	Lead-free Plating 无铅镀层
44.2126	Weave Texture 显布纹	45.1947	Alloy, Tin Bismuth (Sn-Bi) 锡铋合金 (Sn-Bi)
45 Conductive Materials (Foil, Film or Plating) 导电材料 (箔、膜或镀层)		45.1948	Alloy, Tin Copper (Sn-Cu) 锡铜合金 (Sn-Cu)
45.0054	As-Fired 烧结态	45.1949	Alloy, Tin Silver (Sn-Ag) 锡银合金 (Sn-Ag)
45.0088	Base Metal 基体金属	45.1950	Alloy, Tin Silver Bismuth (Sn-Ag-Bi) 锡银铋合金 (Sn-Ag-Bi)
45.0092	Basis Metal 金属基材	45.1951	Alloy, Tin Silver Copper (Sn-Ag-Cu) 锡银铜合金 (Sn-Ag-Cu)
45.0180	Carrier (Foil) 载体 (箔)	45.1952	Alloy, Tin Zinc (Sn-Zn) 锡锌合金 (Sn-Zn)
45.0202	Chemical Vapor Deposition 化学气相沉积	45.1964	Physical Vapor Deposition 物理汽相沉积
45.0249	Conductive Foil 导电箔	45.1969	Planar Resistor 平面电阻
45.0358	Dent 压痕	45.1976	Plating Solution 电镀溶液

45.2013	Resistive Clad Laminate 电阻覆金属箔层压板	46.2038	Adhesion (Pressure Sensitive Tape) 附着力 (压敏胶带)
45.2017	Reverse-Treated Foil (RIP) 反向处理金属箔 (RTF)	46.2046	Solder Powder 焊料粉
45.2170	Conductive Medium 导电介质	46.2049	Solder, Silver-Tin 锡银焊料
45.2171	Conductive Ink 导电墨		
45.2180	Copper Island 铜岛		
46 Component Attachment Materials (Conductive/ Nonconductive) 元器件固定材料 (导电/非导电)		47 Coating and Permanent Masking Materials 涂料和永久性掩蔽材料	
46.0008	Acid-Core Solder 酸性芯焊料	47.0107	Binder 粘结剂
46.0009	Acid Flux 酸性助焊剂	47.0261	Swelling (Cured Solder Mask) 膨胀 (已固化的阻焊膜)
46.0012	Activated Rosin Flux 活性松香助焊剂	47.0742	Mask 掩膜
46.0015	Activator 活化剂	47.0873	Softening (Cured Solder Mask) 软化 (已固化的阻焊膜)
46.0044	Aqueous Flux 水性助焊剂	47.0892	Potting Compound 灌封化合物
46.0539	Flux-Cored Solder 助焊剂芯焊料	47.0927	Liquefaction (Cured Solder Mask) 液化 (已固化阻焊膜)
46.0956	Solder 焊料	47.0973	Solder Mask 阻焊膜
46.0965	Solder Cream 焊膏	47.1005	Chalking (Cured Solder Mask) 粉化 (固化的阻焊膜)
46.1262	Rosin Flux 松香助焊剂	47.1203	Peeling (Cured Solder Mask) 剥离 (已固化的阻焊膜)
46.1491	Base Metal (Solder) 基体金属 (焊料)	47.1631	Combination Mask 组合掩膜
46.1514	Rosin 松香	47.1674	Solder Resist 阻焊剂
46.1607	Poise 泊	47.1995	Wicking (Solder Mask) 芯吸 (阻焊膜)
46.1608	Centipoise 厘泊	47.2086	Organic Solderability Preservative (OSP) 有机可焊性保护剂 (OSP)
46.1610	Viscosity 粘性	47.2181	Protective Isolation Coating 保护性绝缘涂层
46.1728	Adhesive 粘合剂	47.2185	Marking 标记
46.1818	Solder Paste 焊膏		
46.1839	Fisheye (Adhesive) 鱼眼 (粘合剂)	49.0068	Azeotrope 共沸物
46.1841	Fisheyes (Pressure Sensitive Tape) 鱼眼 (压敏胶带)	49.0096	Embedded Passive 埋入式被动 (无源) 材料片
46.1869	Creep Resistant Holding Power (Pressure Sensitive Tape) 抗蠕变保持力 (压敏胶带)	49.0847	Copolymerize 共聚
		49.1082	Thixotropic Ratio 触变率
		49.1083	Thixotropy 触变性

49 Other (Material Issues)
其他 (材料方面)

49.0068	Azeotrope 共沸物
49.0096	Embedded Passive 埋入式被动 (无源) 材料片
49.0847	Copolymerize 共聚
49.1082	Thixotropic Ratio 触变率
49.1083	Thixotropy 触变性

49.1330	Azeotropic Mixture (Azeotrope) 共沸混合物（共沸物）	51.0193	Chamfer (Drill) 倒角（钻头）
49.2161	Embedded Passive Component (Device) 埋入式被动（无源）元器件（器件）	51.0209	Chipped Point 钻尖缺损
49.2165	Embedded Component (Inserted) 埋入式元器件（插入）	51.0211	Chisel-Edge Angle 横刃角
49.2166	Embedded Component (Formed) 埋入式元器件（成形）	51.0257	Chipping 碎边角
49.2167	Embedded Active Component (Device) 埋入式主动（有源）元器件（器件）	51.0312	Crazing (Base Material) 微裂纹（基材）
5 Fabrication Processes for Interconnection Structures 互连结构的制造工艺		51.0407	Drill Body Length 钻体长度
50 General (Interconnection Structure Fabrication Processes) 通用（互连结构制造工艺）		51.0408	Drill Diameter 钻头直径
50.0200	Chemically-Deposited Printed Wiring 化学沉积印制线路	51.0409	Drill Point Concentricity 钻尖同心度
50.0201	Chemically-Deposited Printed Circuit 化学沉积印制电路	51.0446	Epoxy Smear 环氧玷污
50.0771	Misregistration 重合不良	51.0544	Foil Burr 金属箔毛刺
50.1209	Subtractive Process 减成法工艺	51.0597	Heel (Drill) 后棱（钻头）
50.1240	Registration 重合度	51.0601	Helix Angle 螺旋角
50.1542	Thermal Zone 受热区	51.0618	Hook 刃钩
50.1646	Multiple Printed Board 多印制板	51.0676	Land (Drill) 刃带（钻头）
50.1786	Production Printed Board (PPB) 成品印制板（PPB）	51.0679	Land Width (Drill) 刃带宽度（钻头）
50.1787	Production Panel (PP) 生产拼板（PP）	51.0684	Layback 刃背
50.1788	Delivered Panel (DP) 交付拼板（DP）	51.0712	Lip Height 刃缘高度
50.1912	Board Fabricator 印制板制造商	51.0740	Margin Width (Drill) 棱边宽度（钻头）
51.2020	Router Bit 铣刀	51.0794	Nail Heading 钉头
51.2057	Stack Pin 支撑销	51.0881	Point Angle 顶角
50.2095	Through-Hole Technology (THT) 通孔组装技术（THT）	51.0907	Primary Flare 外倾
51 Mechanical Processes 机械加工		51.0908	Primary Relief 第一后角
51.0081	Back Taper(s) 倒锥	51.0910	Primary Taper 内倾
51.0181	Carry-Out 排屑口	51.0929	Shoulder Angle 肩角
		51.0998	Splay 斜孔
		51.1155	Web Taper 钻心锥度

51.1156	Web Thickness 钻心厚度	52.0011	Actinic Radiation 有效光
51.1200	Overall Length 钻刀总长度	52.0113	Bleeding 渗出
51.1223	Land Width Angle (Drill) 刃带宽度角	52.0845	Permanent Resist 永久性抗蚀剂
51.1229	Overlap (Drill) 重叠（钻头）	52.0850	Photographic Layer 感光层
51.1282	Secondary Relief 第二后角	52.0856	Photoprint 光成像
51.1295	Shank 钻柄	52.0857	Photoresist Image 光致抗蚀图像
51.1296	Shank-to-Drill Body Concentricity 钻柄对钻体同心度	52.0914	Printed Component 印制元器件
51.1297	Shank Diameter 钻柄直径	52.0937	Silk screening 丝印
51.1341	Body Land Clearance 钻体刃带间隙	52.0947	Skipping 漏印
51.1400	Flare 锥口	52.1050	Tenting 掩蔽
51.1415	Haloing 晕圈	52.1131	Usable Resolution 有效解像度
51.1457	Open Point 分离	52.1204	Screen Printing 网印
51.1506	Resin Smear 树脂钻污	52.1254	Reverse Image 负像
51.1574	Blanking 开料	52.1448	Negative-Acting Resist 负性抗蚀剂
51.1633	Compound Die Set 组合冲切装置	52.1472	Photoresist 光致抗蚀剂
51.1702	Drill Bit 钻头	52.1481	Positive-Acting Resist 正性抗蚀剂
51.1703	Drilling 钻孔	52.1508	Resist (Mask) 阻焊剂（膜）
51.1709	Hole Edge Roughness 孔边粗糙度	52.1575	Image Blur 图像模糊
51.1710	Hole Roughness 孔粗糙度	52.1592	Printing 印制
51.1719	End Mill 端铣刀	52.1600	Printed Components, Conductive Inks 导电油墨印制元器件
51.1720	Entry/Backup Material 盖板/垫板	52.1682	Development (Resist) 显影（抗蚀剂）
51.1870	Hole Base Positioning 孔基准定位	52.1701	Definition 逼真度
51.1992	Punching 冲压	52.1705	Dry Film Resist 干膜抗蚀剂
51.1993	Push Back 复位	52.1724	Exposure 曝光
51.2178	Singulate 提取单片	52.1789	Off-Contact Printing 非接触印刷
52	Imaging and Application of Resists and Inks 抗使剂和油墨的成像与涂敷	52.1852	Stencil (Solder Mask) 模板（阻焊膜）

52.1889	Lamination (Dry Film) 贴膜 (干膜)	53.0561	Galvanic Displacement 电镀置换
52.1895	Laser Direct Imaging (LDI) 激光直接成像 (LDI)	53.0613	Hole Pull Strength 孔拉出强度
52.1940	On-Contact Printing 接触印刷	53.0614	Hole Void 孔空洞
52.1975	Plating Resist 电镀抗蚀剂	53.0635	Immersion Plating 浸镀
52.1979	Hole Filling Process 填孔工艺	53.0645	Initiating 引发
52.1980	Hole Plugging Process 塞孔工艺	53.0656	Interlaminar Metallization 层内金属化
52.2025	Scum 残渣	53.0753	Metalization (n.) 金属化 (名词)
52.2069	Strip (Resist Stripping) 剥离 (抗蚀剂剥离)	53.0827	Panel Plating 全板电镀
53 Material Deposition Processes, including Plating 金属沉积过程, 包括电镀		53.0840	Pattern Plating 图形电镀
53.0002	Accelerator 加速剂	53.0874	Plating 电镀
53.0013	Activating 活化	53.0875	Plating, Burned 镀层烧焦
53.0014	Activating Layer 活化层	53.0876	Plating Bar 电镀工艺导线
53.0022	Adhesion Promotion 附着力增强	53.0877	Plating Up 镀层加厚
53.0056	Aspect Ratio (Hole) 厚径比 (孔)	53.0906	Pretinning 预上锡
53.0117	Blow Hole 气孔	53.0962	Solder Coat 焊料涂层
53.0184	Catalyzing 催化	53.1007	Sputtering 溅涂
53.0255	Photographic-Reduction Dimension 照相缩制尺寸	53.1088	Tie Bar 分流线
53.0319	Critical Current Density 临界电流密度	53.1133	Vacuum Evaporation 真空蒸镀
53.0426	Electrodeposition 电沉积	53.1199	Outgassing 排气
53.0427	Electroless Deposition 无电沉积	53.1261	Robber 分流
53.0428	Electroless Plating 无电电镀	53.1285	Seeding 强化
53.0430	Electrolytic Deposition 电解沉积	53.1286	Seed Layer 强化层
53.0433	Electroplating 电镀	53.1291	Sensitizing 敏化
53.0502	Film Network 膜网络	53.1322	Additive Process 加成法工艺
53.0554	Fully-Electroless Process 全无电工艺	53.1407	Fully Additive Process 全加成法工艺
53.0560	Galvanic Deposition 电镀沉积	53.1477	Plating Thief 分流阴极

53.1518	Semi-Additive Process 半加成法工艺	54.0452	Etch Factor 蚀刻因子
53.1540	Swell-and-Etch Process 溶胀-蚀刻工艺	54.0453	Etching 蚀刻
53.1549	Treeing 树枝状结晶	54.0574	Graded Wedge 定级楔形图
53.1647	Contact Plating 接触镀层	54.0798	Negative Etchback 负凹蚀
53.1673	Overplate 外镀层	54.0953	Smear Removal 玷污去除
53.1677	Solder Levelling 焊料整平	54.1217	Acid Value 酸价
53.1691	Die Stamping (Conductor) 模具压印法 (导体)	54.1294	Shadowing, Etchback 凹蚀阴影
53.1711	Hole, Knee 孔膝	54.1318	Abrasive Trimming 磨削修整
53.1871	Hot Air (Solder) Leveling (HASL) 热风 (焊料) 整平 (HASL)	54.1321	Active Trimming 带电修整
53.1894	Laser Bonding 激光键合	54.1389	Etchback 凹蚀
53.1953	Plating, Palladium 钯镀层	54.1390	Etching Indicator 蚀刻指示图
53.1954	Plating, Tin (Sn) 锡 (Sn) 镀层	54.1589	Breakaway 分离
53.1955	Plating, Tin Bismuth (Sn-Bi) 锡铋 (SnBi) 镀层	54.1692	Differential Etching 差分蚀刻法
53.1956	Plating, Tin Copper (Sn-Cu) 锡铜 (SnCu) 镀层	54.1723	Etch Resist 抗蚀剂
53.1957	Plating, Tin Silver (Sn-Ag) 锡银 (SnAg) 镀层	54.1821	Abrasion Resistance 耐磨性
53.1977	Plating Void 镀层空洞	54.1959	Perforation 邮票孔
53.2064	Step Plating 阶梯状电镀	54.1960	V-Groove V形槽
53.2067	Strike Plating 闪镀层	54.1978	Plenum 增压箱
53.2096	Throwing Power 布散能力	54.2015	Reverse Etchback 反向凹蚀
53.2110	Underplate 基底镀层	54.2021	Routing 铣切
53.2168	Plating Fold 镀层折叠	54.2109	Undercut, Resist or Masking Material 蚀刻剂或掩膜材料侧蚀

54 Material Removal Processes, including Etching 材料除去过程, 包括蚀刻

54.0010	Acid Number 酸值
54.0245	Concentration Polarization 浓差极化
54.0248	Conducting Salt 导电盐
54.0450	Etchant 蚀刻剂

55 Lamination, Sequential Deposition, and Molding Processes

55.0130	Bonding Layer 粘接层
55.0176	Cap Lamination 覆盖层压
55.0545	Foil Lamination 覆箔层压

55.0566	Gel Time 胶凝时间	56.0508	Fire (v.) 烧结 (动词)
55.0672	Laminate (n.) 层压板 (名词)	56.0509	Firing Sensitivity 烧结敏感度
55.0748	Measling 白斑	56.0517	Fissuring 裂隙
55.0865	Pink Ring 粉红环	56.0557	Fused Coating 热熔涂覆层
55.0898	Pre-finish (n.) 预调整剂	56.0577	Green Strength 未固化强度
55.0900	Preflow 预流动	56.0586	Hardeners 硬化剂
55.1154	Weave Exposure 露织物	56.0593	Heat of Fusion 熔化热
55.1350	Clad (adj.) 覆箔的 (形容词)	56.0660	Intumescence 膨胀
55.1376	Delamination 分层	56.0703	Leveling 整平
55.1412	Glass Transition Temperature (Tg) 玻璃化温度	56.0704	Leveling Flux 整平助焊剂
55.1443	Mass Lamination 叠合层压	56.0705	Leveling Oil 整平油
55.1449	Nominal Cured Thickness 标称固化厚度	56.0890	Post Curing 后固化
55.1474	Plate Finish, Laminating 层压模板抛光	56.0902	Preheat (n.) 预热 (名词)
55.1890	Lamination (Multilayer) 层压 (多层)	56.1304	Radiant Flux 辐射通量
55.1899	Layer-to Layer-Registration 层间对位	56.1305	Radiant Intensity 辐射强度
55.1900	Lay-Up 叠层	56.1306	Radiator, Focused 聚焦辐射器
55.1966	Pin Lamination 销钉层压	56.1307	Radiator, Nonfocused 非聚焦反射器
55.2085	Time to Decomposition (Td) 分解温度 (Td)	56.1408	Fusing Flux 热熔助焊剂
		56.1409	Fusing Oil 热熔油

56 Thermal Cure/Firing Processes 热固化/烘烤加工

56.0082	Bake Out 烘除	56.1483	Preheating (v.) 预热 (动词)
56.0093	Batch Oven 成批烘炉	56.1676	Fusing 热熔
56.0219	Co-Firing 共烧		
56.0330	Cure 固化	57.0042	Anodic Cleaning 阳极清洗
56.0331	Cure Time 固化时间	57.0185	Cathodic Cleaning 阴极清洗
56.0332	Curing Agent 固化剂	57.0199	Chemical Conversion Coating 化学转换涂层
56.0467	Fusing Fluid 热熔液	57.0366	Desmear 去钻污

57 Cleaning and Chemical Treatment Processes 清洗和化学处理工艺

57.0832	Passivation 钝化（处理）	60.0816	Overhang 镀层突沿
57.1009	Stabilization Period 稳定期	60.0823	Packaging and Interconnecting Assembly 封装及互连组件
59 Other (Interconnecting Structure Fabrication Processes) 其他（互连结构制作工艺）		60.0912	Printed Circuit 印制电路
59.0186	Cation Exchange 阳离子交换	60.0945	Single-Sided Printed Board 单面印制板
59.0187	Cationic Reagent 阳离子表面活性剂	60.1013	Stamped Printed Wiring 冲压印制线路
6 Type and Performance of Interconnecting Structures 互连结构的类型和性能		60.1116	Two-Sided Board 两面板
60 General (Interconnecting Structure Type and Performance) 通用（互连结构类型和性能）		60.1147	Warp 翘曲
60.0041	Annular Ring (Annular Width) 孔环（环宽）	60.1179	Nick 缺口
60.0084	Bare Board 裸板	60.1181	Nodule 结瘤
60.0118	Board 板	60.1218	Bow (Sheet, Panel, or Printed Board) 弓曲（整板、在制板或印制板）
60.0139	Bond Strength 粘合强度	60.1227	Multilayer Printed Board 多层印制板
60.0148	Breakout 破出	60.1319	Access Hole 余隙孔
60.0156	Bulge 凸起	60.1363	Conductor Spacing 导体间距
60.0177	Card 卡板	60.1364	Conductor Width 导体宽度
60.0214	Circuit Card 电路卡	60.1461	Packaging and Interconnection Structure 封装及互连结构
60.0252	Conductor Base Spacing 导体底距	60.1485	Printed Board (PB) 印制板（PB）
60.0253	Conductor Base Width 导体底宽	60.1487	Printed Circuit Board 印制电路板
60.0402	Double-Sided Printed Board 双面印制板	60.1488	Printed Wiring 印制线路
60.0451	Etched Printed Boards 已蚀刻印制板	60.1489	Printed Wiring Board 印制线路板
60.0707	Lifted Land 连接盘浮起	60.1490	Production Board 成品板
60.0786	Multilayer Printed Circuit Board 多层印制电路板	60.1504	Resin Recessions 树脂凹缩
60.0788	Multilayer Printed Wiring Board 多层印制线路板	60.1553	Twist 扭曲
60.0810	One-Sided Board 一面板	60.1625	Circuit Board 电路板
		60.1698	Double-Sided Printed Wiring Board 双面印制线路板
		60.1699	Hole Breakout 孔破出
		60.1970	Planer Board 平面板

60.2065	Stiffener Board 增强板	63 Flex-Rigid Printed Boards (Organic) 挠刚印制板 (有机)
60.2143	Button Plating 钮扣电镀	63.0524 Flex-Rigid Printed Board 挠刚性印制板
60.2144	Wrap Plating 包覆电镀	63.1258 Rigid-Flex Printed Board 刚挠性印制板
60.2145	Butt Plating Joint 对接电镀接点	63.1570 Flex-Rigid Double-Sided Printed Board 挠刚性双面印制板
60.2146	Butt Plating Joint (Wrap Plating) 对接电镀接点 (包覆镀层)	63.1584 Rigid-Flex Double-Sided Printed Board 刚挠性双面印制板
60.2149	Finished Board 成品板	63.1847 Flex-Rigid Printed Wiring Board 挠刚性印制线路板
61 Rigid Printed Boards (Organic) 刚性印制板 (有机)		
61.1521	Sequentially-Laminated Multilayer Printed Board 顺序层压多层印制板	64 Discrete Wiring Boards (Organic) 分立线路板 (有机)
61.1571	Rigid Printed Board 刚性印制板	64.0390 Discrete Wiring Board 分立布线板
61.1576	Rigid Single-Sided Printed Board 刚性单面印制板	64.0391 Discrete Wiring Board Assembly 分立布线板组件
61.1577	Rigid Double-Sided Printed Board 刚性双面印制板	64.1555 Bead (Discrete Wiring) 铜圈 (分立布线)
61.1578	Rigid Multilayer Printed Board 刚性多层印制板	64.1588 Bounce Pad (Discrete Wiring) 反弹盘 (分立布线)
61.1587	Metal Core Printed Board 金属芯印制板	64.1660 Cover Layer (Discrete Wiring) 覆盖层 (分立导线)
61.1593	Build-Up Process 积层工艺	64.1662 Cross-Over (Discrete Wiring) 交叉 (分立布线)
61.1594	Sequential Lamination 顺序层压	64.1693 Discrete Wiring 分立线路
61.2058	Stacked Via/Microvia 叠层导通孔/微导通孔	60.2068 Tangency (Cross Section) 相切 (横截面)
62 Flexible Printed Boards (Organic) 挠性印制板 (有机)		64.2132 Wire Overcoat (Discrete Wiring) 导线保护层 (分立布线)
62.0525	Flexible Printed Circuit 挠性印制电路	64.2133 Wire Poke-Through (Discrete Wiring) 导线刺穿 (分立布线)
62.0526	Flexible Printed Wiring 挠性印制线路	64.2134 Wire Stub (Discrete Wiring) 导线梢 (分立布线)
62.1579	Flexible Printed Board 挠性印制板	64.2135 Wiring Layer (Discrete Wiring) 布线层 (分立布线)
62.1580	Flexible Single-Sided Printed Board 挠性单面印制板	
62.1581	Flexible Double-Sided Printed Board 挠性双面印制板	67 Hybrid/Multichip Module Interconnecting Structures 混合/多芯片模块互连结构
62.1582	Flexible Multilayer Printed Board 挠性多层印制板	67.0818 Overlap (Film) 重叠 (膜)
62.1697	Double-Sided Flexible Printed Wiring Board 双面挠性印制线路板	67.1922 Module Board 模块板
62.2138	Tie-In Tab 连接条	67.1926 Molded Interconnection Device 模制互连器件

7 Assembly Processes for Interconnection Structures	70.1770	Stand-Off 托高
互连结构组装工艺	70.1846	Flexible Material Interconnect Construction (FMIC) 挠性材料互连结构 (FMIC)
70 General (Assembly Process Issues)		
通用 (组装工艺方面)		
70.0090 Basic Wettability	70.1896	Laser Scanner (Bar Code) 激光扫描器 (条码)
基本润湿性		
70.0149 Bridging, Electrical	70.1907	Loading Direction 装载方向
电气桥接		
70.0239 Component Mounting	70.1911	Assembly Manufacturer 组装制造商
元器件安装		
70.0279 Contact Resistance	70.1915	Message (Bar Code) 信息 (条码)
接触电阻		
70.0291 Conveyor, Edge	70.1987	Print Contrast Signal 印刷对比信号
边缘传送带		
70.0292 Conveyor, Mesh	70.1996	Quiet Zone (Bar code) 空白区 (条码)
网状传送带		
70.0293 Conveyor, Secondary	70.2041	Solder Dissolution 焊料溶蚀
二级传送带		
70.0435 Elongation	70.2042	Solder Flow-Up 焊料爬升
延伸		
70.0972 Backup Pin	70.2051	Space (Bar Code) 空 (条码)
支撑销		
70.1238 Bar	70.2052	Special Characters 特殊字符
条		
70.1292 Bar Code	70.2054	Specks 斑点
条码		
70.1353 Bar Code Printer	70.2055	Spot Size 点尺寸
条码打印机		
70.1354 Bar Code Scanner/Reader	70.2059	Start/Stop Characters 起始/终止符
条码扫描器/识别器		
70.1370 Bar Code Symbol	70.2075	Symbology (Bar Code) 符号象征 (条码)
条码符号		
70.1452 Mixed Component-Mounting Technology	70.2080	Temperature, Reflow, Maximum 最高再流焊温度
元器件混装技术		
70.1586 Bonding Time	70.2102	Tray 盘
键合时间		
70.1615 Character	70.2119	Voids (Bar Code) 脱墨 (条码)
符号		
70.1626 Code 39	70.2121	Wand (Bar Code) 扫描笔 (条码)
39条码		
70.1627 Code Density	70.2183	Cant 倾斜角
条码密度		
70.1632 Component Mounting Site		
元器件安装位置		
70.1717 Element (Bar Code)	71.1089	Tinning 上锡
元素 (条码)		
70.1731 Bar Code Marking	71.1146	Waffle Pack 格栅包装
条码标识		
70.1757 Mixed Technology	71.1541	Taped Component 带式元器件
混装技术		
70.1763 Processability		
可加工性		
		71 Component Handling, Storage and Preparation
		元器件操作、贮存和准备

71.1762	Preconditioning 预处理	73.1759	Pick-Up Tool 拾取工具
72	Through-Hole Mounting of Components 通孔元器件插装	73.1760	Pick-Up Force 拾取力
72.0063	Automated Component Insertion 自动元器件插装	73.1761	Placement Force 贴放力
72.0217	Clinched-Wire Interfacial Connection 弯线面间连接	73.1775	Vacuum Head 真空头
72.1022	Straight-Through Lead 直通引线	73.1866	Heel Fillet 跟部填充
72.1085	Through-Hole Mounting 通孔插装	73.1909	Locating Accuracy (Component) 定位精度(元器件)
72.1351	Clinched Lead 折弯引线	73.1927	Mounting Tack Time 安装时间
72.1352	Clinched-Wire Through Connection 弯线贯穿连接	73.1986	Pre-setting 预定位
72.1467	Partially-Clinched Lead 部分折弯引线	73.2028	Self-Alignment Effect 自对中效应
72.1539	Swaged Lead 压扁引线	73.2040	Solder Destination Side 焊接终止面
73	Surface Mounting of Components 元器件表面贴装	73.2048	Solder Source Side 焊接起始面
		73.2076	Tackiness 粘着性
74	Bare Chip Placement and Attachment 裸芯片放置和连接		
73.0406	Drawbridged Component 吊桥元器件	74.0021	Adhesion Layer 粘接层
73.0457	Excising 切割	74.0039	Angled Bond 角形键合
73.0690	Aperture (Stencil) 开孔(模板)	74.0048	Area Array Tape Automated Bonding 面阵列载带自动键合
73.0697	Lead Projection 引线伸出长度	74.0055	Aspect Ratio (Film) 长宽比(膜元器件)
73.0758	Area Ratio 面积比	74.0073	Back Bonding 背向键合
73.0808	Aspect Ratio (Stencil) 宽厚比(模板)	74.0079	Back Mounting 背向安装
73.0951	Slump 塌落	74.0083	Ball Bond 球形键合
73.1001	Spread 铺展	74.0085	Barrier Metal 隔离金属
73.1012	Staking, Adhesive 粘合固定	74.0120	Bond 键合
73.1026	Stringing 拉丝	74.0121	Bond-to-Bond Distance 键合间距离
73.1035	Surface Mounting Technology (SMT) 表面贴装技术(SMT)	74.0122	Bond-to-Die Distance 芯片键合距离
73.1093	Tombstoned Component 墓碑状元器件	74.0123	Bond Deformation 键合变形
73.1648	Contained Paste Transfer Head 焊膏转移头	74.0125	Bond Enhancement Treatment 粘合增强处理
73.1733	Centering Force 对中力		

74.0126	Bond Envelope 键合参数限	74.0275	Contact Angle (Bonding) 接触角（键合）
74.0127	Bonding, Die 芯片键合	74.0311	Cratering (Wire Bonding) 陷坑（金属线键合）
74.0128	Bonding Area 键合区	74.0336	Cut-Off 切断
74.0129	Bonding Island 键合岛	74.0376	Die Bonding 芯片键合
74.0131	Bonding Tool 键合工具	74.0379	Diffusion Bond 扩散键合
74.0132	Bonding Wire 键合金属线	74.0418	Edge Short 边缘短路
74.0133	Bond Interface 键合界面	74.0432	Electron-Beam Bonding 电子束键合
74.0134	Bond Land 键合连接盘	74.0454	Eutectic Die Attach 共晶芯片连接
74.0135	Bond Lift-Off 键合脱离	74.0469	Face Bonding 面键合
74.0136	Bond Schedule 键合参数表	74.0491	Feature Window 要素窗
74.0137	Bond Separation 键合间隔	74.0512	First Bond 首键合
74.0138	Bond Site 键合位置	74.0513	First Radius 第一半径
74.0141	Bond Surface 键合面	74.0514	First Search 首次搜索
74.0155	Bugging Height 障碍高度	74.0520	Flag 垫板
74.0159	Bump (Die) 凸点（芯片）	74.0521	Flame-Off 烧断
74.0160	Bumped Die 带凸点芯片	74.0529	Flip-Chip Mounting 倒装芯片安装
74.0161	Bumped Tape 带凸点载带	74.0530	Flip Chip 倒装芯片
74.0162	Bumped Wafer 带凸点晶圆	74.0532	Floating-Annulus Tape-Automated Bonding 浮动环载带自动键合
74.0167	Burn-Off 熔断	74.0547	Foot Length 底座长度
74.0175	Capillary 毛细导管	74.0551	Frame Pitch 框节距
74.0189	Centerwire Break 金属线中心断裂	74.0562	Gang Bonding 群点键合
74.0204	Chessman 操作杆	74.0598	Heel, Bonding 键合倾斜
74.0206	Chip-and-Wire 芯片-金属线	74.0620	Horn 喇叭
74.0210	Chisel 劈刀	74.0646	Inner-Lead Bond (ILB) 内引线键合（ILB）
74.0212	Chopped Bond 压陷键合	74.0680	Lap Shear Strength 搭接剪切强度
74.0235	Compliant Bond 柔性键合	74.0756	Microbond 微键合

74.0770	Mislocated Bond 错位键合	74.1312	Rebond 再键合
74.0793	Nailhead Bond 钉头式键合	74.1342	Bondability 可键合性
74.0796	Neckbreak 断颈	74.1348	Chemisorption 化学吸附
74.0804	Off Bond 偏离键合	74.1543	Thermocompression Bonding 热压键合
74.0831	Partial Lift 局部起翘	74.1617	Chip-in-Board (CIB) 板内芯片直装 (CIB)
74.0943	Single-Point Bonding 单点键合	74.1618	Chip-on-Board Assembly 板上芯片直装组件
74.0952	Smeared Bond 模糊键合	74.1619	Chip-on-Flex (COF) 挠性板上芯片直装 (COF)
74.0961	Solder Bump 焊料凸点	74.1620	Chip-on-Glass (COG) 玻璃基板芯片直装 (COG)
74.0983	Solid-State Bond 固态键合	74.1650	Controlled Collapse Bonding 可控塌落键合
74.1003	Sprocket 输送定位孔	74.1734	Circumferential Thermodes 环形热电极
74.1021	Stitch Bond 跳点键合	74.1753	Face Down Bonding 面向下键合
74.1072	Thermosonic Bonding 热超声键合	74.1799	Face Up Bonding 面向上键合
74.1095	Torsional Strength 抗扭强度	74.2089	Thermal Sonic Bonding 热超声键合
74.1100	Transfer-Bump Tape Automated Bonding 转移凸点载带自动键合	74.2127	Ball Lift 焊球起翘
74.1119	Ultrasonic Bonding 超声键合	74.2152	Chip Scale Package 芯片尺寸封装 (CSP)
74.1157	Wedge Bond 楔形键合	75 Joining Techniques 连接技术	
74.1158	Wedge Tool 楔形工具	75.0289	Controlled Collapse, Component Connection 可控塌落元器件连接
74.1168	Wire Bonding 金属线键合	75.0300	Corrosive Flux 腐蚀性助焊剂
74.1169	Wire Sag 金属线下垂	75.0410	Dross 焊渣
74.1172	Wobble Bond 振动键合	75.0498	Fillet, Adhesive 粘合剂填充
74.1198	Outer-Lead Bond (OLB) 外引线键合 (OLB)	75.0499	Fillet, Solder 焊料填充
74.1275	Sagging 下垂	75.0536	Flow Soldering 流动焊接
74.1280	Scrubbing 磨刷	75.0538	Flux 助焊剂
74.1281	Search Height 搜索高度	75.0540	Flux Activation Temperature 助焊剂活化温度
74.1283	Second Bond 第二键合	75.0541	Flux Activity 助焊剂活性
74.1290	Semiconductor Carrier 半导体载体	75.0558	Adhesive Transfer (Pressure Sensitive Tape) 粘接剂转移 (压敏胶带)

75.0564	Gas Blanket 气层	75.0967	Solder Fillet 焊料填充
75.0585	Hand Soldering 手工焊接	75.0968	Soldering 焊接
75.0587	Hard Wiring 硬连线	75.0969	Soldering Ability 焊接能力
75.0592	Heat Column 热杆	75.0970	Soldering Flux 焊接助焊剂
75.0609	Allowable Temperature 允许温度	75.0971	Soldering Iron Tip 烙铁头
75.0631	Icicle 焊料毛刺	75.0974	Solder Plug 焊料塞
75.0647	Inorganic Flux 无机助焊剂	75.0975	Solder Projection 焊料拉尖
75.0675	Anisotropic Conductive Contact 各向异性导电连接	75.0979	Solder Sputter 焊料飞溅
75.0687	Leaching Metalization 金属层浸析	75.0981	Solder Webbing 锡网
75.0691	Lead Extension 引线延伸	75.0982	Solder Wicking 焊料芯吸
75.0737	Manual Soldering 人工焊接	75.0997	Specific Solderability 特定可焊性
75.0749	Mechanical Wrap 机械绕接	75.1019	Step Soldering 分步焊接
75.0780	Muffle 隔离罩	75.1036	Surface Tension 表面张力
75.0817	Overheated Solder Connection 过热焊接连接	75.1038	Synthetic Activated Flux 合成活性助焊剂
75.0835	Paste, Soldering 焊膏焊接	75.1039	Synthetic Resin 合成树脂
75.0836	Paste Flux 膏状助焊剂	75.1041	TAB TAB
75.0886	Porosity (Solder) 疏孔 (焊料)	75.1043	Tail, Bonding 键合尾线
75.0899	Preferred Solder Connection 优质焊点	75.1044	Tail Pull 尾线割除
75.0926	Pulse Soldering 脉冲焊接	75.1045	Tape 带
75.0957	Solder-Paste Flux 焊膏助焊剂	75.1046	Tape Automated Bonding 载带自动键合
75.0958	Solderability 可焊性	75.1048	Temperature Profile 温度曲线
75.0959	Solder Ball 焊料球	75.1064	Tetrafunctional Resins 四官能团树脂
75.0960	Solder Bridging 焊料桥连	75.1070	Thermode 热电极
75.0963	Solder Connection 焊接连接	75.1101	Transfer Soldering 转移焊接
75.0964	Solder Connection Pinhole 焊接连接针孔	75.1121	Ultrasonic Soldering 超声焊接
75.0966	Solder Embrittlement 焊料脆化	75.1150	Water-Soluble Flux 水溶性助焊剂

75.1152	Wave Soldering 波峰焊接	75.1530	Solderless Wrap 无焊绕接
75.1159	Wetting, Solder 焊料润湿	75.1533	Staking, Mechanical 机械固定
75.1162	Wicking 芯吸	75.1557	Vapor-Phase Soldering 汽相焊接
75.1166	Wipe Soldering 涂擦焊接	75.1568	Working Time 作业时间
75.1170	Wire Wrap 导线绕接	75.1597	Bulk Reflow 批量再流焊
75.1183	Nonactivated Flux 非活性助焊剂	75.1628	Cohesion (Pressure Sensitive Tape) 附着性 (压敏胶带)
75.1189	Nonwetting (Solder) 不润湿 (焊料)	75.1629	Cold Flow (Pressure Sensitive Tape) 冷流动 (压敏胶带)
75.1194	Open Time 间隔时间	75.1651	Controlled Collapse Soldering 可控塌落焊接
75.1235	Reflow Spike 再流焊峰值	75.1655	Cooldown 冷却
75.1247	Resin Flux 树脂助焊剂	75.1672	Temperature Delta ΔT 温度差 (ΔT)
75.1248	Resistance Soldering 电阻钎焊	75.1678	Mass Soldering 群焊
75.1249	Resistance Welding 电阻熔焊	75.1681	Condensation Soldering 冷凝焊
75.1326	Contact Angle (Soldering) 接触角 (焊接)	75.1695	Dissolution of Termination Metallization (Leaching)
75.1382	Dip Soldering 浸焊	75.1708	End-of-Lead Metalization (Leaching) 端子金属层溶蚀 (浸析)
75.1386	Drag Soldering 拖焊	75.1714	Drying (Solder Paste) 烘干 (焊膏)
75.1391	Eutectic (solder) 共晶 (焊料)	75.1722	Electrolytic Corrosion Factor (Pressure Sensitive Tape) 电解腐蚀因子 (压敏胶带)
75.1392	Eutectic 共晶	75.1736	Equilibrium Wetting 润湿平衡
75.1393	Excess Solder Connection 过量焊接连接	75.1745	Convected Energy 对流能
75.1404	Foreign Material (Soldering) 外来物 (焊接)	75.1746	Fluxing 助焊
75.1416	Heatsink Tool 散热工具	75.1748	Forced Gas Convection Soldering 强制热风对流焊接
75.1428	Intermetallic Compound, Solder 焊料金属间化合物	75.1749	Hot Plate Reflow Soldering 热板再流焊接
75.1465	Parallel-Gap Soldering 双极焊接	75.1751	Immersion Attitude 浸入位置
75.1466	Parallel-Gap Welding 双极熔接	75.1766	Infrared Reflow (IR) 红外再流 (IR)
75.1500	Reflow Soldering 再流焊接	75.1767	Solder Meniscus 焊料弯液面
75.1515	Rosin Solder Connection 过量松香焊接连接	75.1768	Solder Bath 焊料槽
75.1529	Soldering Oil (Blanket) 焊接油 (覆盖层)	75.1769	Soldering Iron 烙铁

75.1849	Stencil (Solder Paste/Adhesive) 模板 (焊膏/粘合剂)	75.1984	Preheat Force 预热力
75.1850	Stencil Border 模板边	75.2007	Reflow Temperature 再流温度
75.1851	Stencil Foil 模板箔	75.2009	Release Liner (Pressure Sensitive Tape) 释放隔离衬 (压力敏感带)
75.1853	Stencil Step 阶梯模板	75.2010	Re-Melting Separation 再熔融分离
75.1855	Stencil Frame 模板框架	75.2043	Solder Joint 焊点
75.1865	Soldering Temperature Resistance 耐焊接温度	75.2044	Solder Luster 焊料光泽
75.1872	Hot Air Reflow Soldering 热风再流焊接	75.2045	Solder Paste Printing Bleed 焊膏印刷溢出
75.1873	Hot Bar 加热棒	75.2047	Solder Reflow 焊料再流
75.1876	Impulse Current Soldering 脉冲电流焊接	75.2050	Solidus (Soldering) 固相线 (焊接)
75.1877	Infrared Soldering 红外焊接	75.2056	Squeegee 刮刀
75.1882	Intrusive Soldering 通孔再流焊接	75.2079	Temperature Leveling 温度均匀化
75.1883	Paste-in-Hole 通孔内焊接	75.2090	Thermode Temperature Gradient 热电极温度梯度
75.1884	Pin-In-Hole 孔中插针焊接	75.2091	Thermode Temperature Variation 热电极温度变异
75.1886	Jet Wave Soldering 喷射波峰焊接	75.2099	Transfer Adhesive (Pressure Sensitive Tape) 转移粘接剂 (压敏胶带)
75.1897	Laser Soldering 激光焊接	75.2106	Ultrasonic Bond 超声键合
75.1904	Lead-Free Solder 无铅焊料	75.2113	Vapor Phase Reflow 汽相再流
75.1906	Liquidus, Solder 焊料液相线	75.2115	Vapor, Saturated 饱和蒸汽
75.1908	Local Reflow Soldering 局部再流焊接	75.2128	Wetting 润湿
75.1910	Low Residue Solder Paste 低残留焊膏	75.2129	Wetting, Adhesive (Pressure Sensitive Tape) 粘接剂润湿, (压敏胶带)
75.1919	Migration (Pressure Sensitive Tape) 迁移 (压敏胶带)	76 Cleaning and Conformal Coating Processes 清洗和敷形涂覆工艺	
75.1933	Reflow Soldering (Nitrogen Process) 再流焊接 (氮气工艺)	76.0031	Aliphatic Solvents 脂肪族溶剂
75.1934	Flow Soldering (Nitrogen Process) 流动焊接 (氮气工艺)	76.0032	Alkaline Cleaner 碱性清洗剂
75.1941	Oozing (Pressure Sensitive Tape) 渗出物 (压敏胶带)	76.0110	Biocide 生物杀伤剂
75.1942	Organic Flux 有机助焊剂	76.0153	Bubble Effect 气泡效应
75.1944	Overprinting 套印	76.0154	Buffer Material 缓冲材料
75.1958	Peel Adhesion (Pressure Sensitive Tape) 剥离附着力 (压敏胶带)	76.0197	Chelate Compound 螯合物

76.0198	Chelating Agent 螯合剂	76.0543	Flux Residue 助焊剂残留物
76.0224	Cold Hand Cleaning 手工冷清洗	76.0584	Halide Content(Flux) 卤化物含量(助焊剂)
76.0225	Cold Machine Cleaning 机器冷清洗	76.0603	Heterocyclic 杂环化合物
76.0233	Complex Ion 络离子	76.0615	Homocyclic 同素环化合物
76.0263	Conformal Coating 敷形涂覆	76.0616	Homologous Series 同源系列
76.0283	Contamination Host Material 污染宿主材料	76.0617	Homopolymer 均聚物
76.0299	Corrosion (Chemical/Electrolytic) 腐蚀(化学/电解)(动词)	76.0621	Hydrocarbon Tolerance 碳氢化合物容限
76.0313	Crazing (Conformal or Solder Mask Coating) 微裂纹(敷形涂覆或阻焊膜涂层)	76.0622	Hydrolytic Stability 水解稳定性
76.0322	Critical Solution Temperature 临界溶液温度	76.0623	Hydrophilic Matter 亲水物质
76.0372	Dibasic Acid 二元酸	76.0624	Hydrophilic Solvent 亲水溶剂
76.0384	Diphase Cleaning 双相清洗	76.0625	Hydrophobic Matter 疏水物质
76.0386	Direct Cleaning 直接清洗	76.0626	Hydrophobic Solvent 疏水溶剂
76.0387	Direct Current Cleaning 直流电清洗	76.0627	Hydrotrope 水溶助剂
76.0429	Electrolytic Cleaning 电解清洗	76.0628	Hydrotrophe 水溶助长性
76.0437	Emulsifying Agent 乳化剂	76.0629	Hypersorption 超吸附
76.0439	Emulsion 乳液	76.0655	Intergranular Corrosion 晶间腐蚀
76.0440	Encapsulant 封装剂	76.0661	Ion Exchange 离子交换
76.0455	Eutrophication 富营养化	76.0663	Ionic Cleanliness 离子清洁度
76.0460	Exfoliation 鳞皮	76.0724	Loop, Wire 线环
76.0463	Extraction, Liquid-Liquid 液液萃取	76.0725	Loop Height 线弧高度
76.0476	Fatty Acid 脂肪酸	76.0730	Lyophobic 疏液性
76.0477	Fatty Ester 脂肪脂	76.0802	Occluded Contaminant 夹留污染物
76.0495	Filiform Corrosion 线状腐蚀	76.0803	Occlusion 吸留
76.0534	Flocculant 絮凝剂	76.0815	Overcoat 覆盖层
76.0535	Flocculation 絮凝作用	76.0820	Oxygen Concentration Cell 氧浓差电池
76.0542	Flux Characterization 助焊剂性能鉴定	76.0833	Passive-Active Cell 钝化-活化电池

76.0883	Polar Matter 极性物质	76.1454	Nonpolar Solvent 非极性溶剂
76.0885	Polymerized Rosin 聚合松香	76.1480	Polymer Reversion 聚合物裂解
76.0985	Solvent 溶剂	76.1531	Solvent Extraction 溶剂萃取
76.0986	Solvent Cleaning 溶剂清洗	76.1535	Standard (Electrode) Potential 标准(电极)电势
76.0987	Solvent Pop 溶剂爆泡	76.1569	Wrinkles 皱褶
76.0988	Solvent Release 溶剂释放	76.1713	Electrolytic Corrosion 电解腐蚀
76.0989	Solvent Wash 溶剂洗涤	76.1744	Ethanol 乙醇
76.1011	Stain Proofing 防锈处理	76.1758	Montreal Protocol 蒙特利尔公约
76.1081	Thinner (Liquid) 稀释剂(液体)	76.1774	Terpenes 萜烯
76.1113	Tuberculation 结节	76.1814	Mealing 起斑
76.1120	Ultrasonic Cleaning 超声清洗	76.1815	Polar Solvent 极性溶剂
76.1187	Nonionic Contaminant 非离子污染物	76.2012	Resistance to Solvents 耐溶剂性
76.1188	Nonpolar Matter 非极性物质	76.2114	Vapor Recovery 蒸气回收
76.1196	Organic Contamination 有机污染物		
76.1221	Dilution Ratio 稀释比		
76.1222	Ionizable (Ionic) Contamination 可电离(离子)污染物	77.0464	Extraction Tool 取出工具
76.1225	Lyophilic 亲液性	77.0494	Field Trimming 现场修整
76.1245	Residue 残留物	77.0667	Kerf 切口
76.1253	Reverse Current Cleaning 反向电流清洗	77.0682	Laser Trimming 激光修整
76.1276	Saponifier 皂化剂	77.0774	Modification 修改
76.1317	Exchange Reaction 交换反应	77.1108	Trimming 修整
76.1371	Critical Humidity 临界湿度	77.1109	Trimming Notch 修整槽口
76.1397	Final Seal 最终密封	77.1293	Serpentine Cut 螺旋形切割
76.1401	Flash Distillation 急骤蒸馏	77.1433	L Cut L形切割
76.1402	Flux-Spatter Test 助焊剂飞溅测试	77.1502	Repair 维修
76.1410	Galvanic Corrosion 电流腐蚀	77.1511	Rework 返工

77 Rework, Repair and Modification 返工、维修和修正

79 Other (Assembly Process Issues)	83.1077	Thin-Film Integrated Circuit 薄膜集成电路
其他 (组装过程方面)		
79.1806 Capability Performance Index (Cp)	83.1078	Thin-Film Network 薄膜网络
能力特性指数 (Cp)		
8 Types and Performance of Assemblies	83.1417	Hybrid Circuit 混合电路
组件的类型和性能		
80 General (Assembly Type and Performance Issues)	83.1418	Hybrid Integrated Circuit 混合集成电路
通用 (组件类型和性能方面)		
80.0057 Assembled Board	83.1419	Hybrid Microcircuit 混合微电路
已组装板		
80.0401 Double-Sided Assembly		
双面组件		
80.0503 Fine-Pitch Technology (FPT)	85.0080	Backpanel 背板
精细节距技术 (FPT)		
80.0775 Module	85.0778	Mother Board 母板
模块		
80.0787 Multilayer Printed Circuit Board Assembly	85.1331	Backplane 底板
多层印制电路板组件		
80.0789 Multilayer Printed Wiring Board Assembly		
多层印制线路板组件		
80.0911 Printed Board Assembly		
印制板组件		
80.0913 Printed Circuit Board Assembly	86.0207	Chip-on-Board (COB) 板上芯片直装 (COB)
印制电路板组件		
80.0917 Printed Wiring Board Assembly	86.0782	Multichip Integrated Circuit 多芯片集成电路
印制线路板组件		
80.0944 Single-Sided Assembly	86.0783	Multichip Microcircuit 多芯片微电路
单面组件		
80.1327 Assembly	86.0784	Multichip Module (MCM) 多芯片模块 (MCM)
组件		
80.2105 Ultra-Fine Pitch Technology	86.1446	Microcircuit Module 微电路模块
超细间距技术		
80.2151 System	86.1928	Multichip Module-Ceramic (MCM-C) 陶瓷多芯片模块 (MCM-C)
系统		
81 Rigid Printed Board Assembly (Organic Substrates)	86.1929	Multichip Module Deposited (MCM-D) 沉积多芯片模块 (MCM-D)
刚性印制板组件 (有机基板)		
81.1669 Daughter Board	86.1930	Multichip Module Laminate (MCM-L) 层压多芯片模块 (MCM-L)
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83 Inorganic (Ceramic, Metal Core, etc.) Printed Board Assemblies		
无机 (陶瓷、金属芯等) 印制板组件		
83.1073 Thick-Film Circuit	90.0003	Acceptance Quality Level (AQL) 验收质量水平 (AQL)
厚膜电路		
83.1074 Thick-Film Hybrid Circuit	90.0007	Accuracy 精度
厚膜混合电路		
83.1075 Thick-Film Network	90.0018	Actual Size 实际尺寸
厚膜网络		
83.1076 Thin-Film Hybrid Circuit	90.0025	Aging 老化
薄膜混合电路		
9 Quality and Reliability, Fabrication and Assembly		
制造与组装的质量和可靠性		
90 General (Quality and Reliability Issues)		
通用 (质量与可靠性方面)		

90.0308	Crack, Foil 金属箔裂纹	91.0140	Subgroup 子群
90.0309	Crack, Plating 镀层裂纹	91.0190	Central Line 中心线
90.0310	Cracking 裂缝	91.0229	Common Cause 普遍原因
90.0348	Defect 缺陷	91.0290	Control Limits 控制限
90.0349	Defect Identification 缺陷标识	91.0306	Capability Index (Cp) 能力指数 (Cp)
90.0351	Degradation 退化	91.0307	Cpk Index (Cpk) 过程能力指数 (Cpk)
90.0353	Dendritic Growth 树枝状生长	91.0321	Critical Operation 关键操作
90.0354	Dendritic Migration 树枝状迁移	91.0333	Cusum Chart 累积和图
90.0359	Dentrices 树枝状物	91.0367	Detection 检测
90.0478	Fault 故障	91.0481	Fault Localization 故障定位
90.0479	Fault Dictionary 故障表	91.0492	Fiber Exposure 露纤维
90.0637	Inclusions 夹杂物	91.0510	First-Pass Yield 直通率
90.1029	Structurally-Similar Construction 结构类似构造	91.0511	First Article 首件
90.1087	Through Migration 穿透迁移	91.0515	Fishbone Diagram 鱼骨图
90.1140	Void 空洞	91.0527	Flexural Failure 挠曲破坏
90.1501	Reliability 可靠性	91.0550	Fractional-Factorial Experiment 部分因子实验
90.1526	Shelf Life 保存期限	91.0567	Generative Process Planning 生成过程规划
90.1854	Foreign Material 外来物	91.0608	Histogram 直方图
90.1913	Quality System 质量体系	91.0630	Hypotheses Test 假设测试
90.2022	Sample Qualification 样品鉴定	91.0632	Identical Processing 等同加工
91 Process Control/SPC 过程控制/SPC		91.0649	Inspection Overlay 覆盖检验板
91.0024	Advanced Statistical Method 高级统计方法	91.0674	Laminate Void 层压板空洞
91.0033	Alpha Error α 错误	91.0722	Long-Term Capability 长期能力
91.0038	Analysis of Variance (ANOVA) 方差分析 (ANOVA)	91.0767	Minor Defect 次要缺陷
91.0059	Assignable Cause 可查明原因	91.0772	Mixed-Effects Model 混合效应模式
91.0104	Beta Error β 错误	91.0781	Multi-Vari 多变元

91.0790	Multilevel Experiment 多重实验	91.1251	Response Variable 响应变量
91.0791	Multiple Indications 多重迹象	91.1268	Run 链
91.0842	Percent Contribution 影响百分率	91.1269	Run Chart 链图
91.0895	Power of Experiment 实验功效	91.1302	Short-Term Capability 短期能力
91.0920	Process Average 过程平均	91.1309	Randomization 随机选择
91.0921	Process Indicator 制程警示	91.1310	Randomness 随机性
91.0922	Process Spread 制程散布	91.1311	Random Sample 随机样本
91.0933	Signal-to-Noise Ratio (Process Control) 信噪比 (过程控制)	91.1314	Reciprocity Failure 互易失效
91.0995	Special Cause 特殊原因	91.1336	Basic Statistical Method 基本统计方法
91.0996	Specification Limits 规格限	91.1344	Capability Performance, Upper (Cpku) 能力特性, 上限 (Cpku)
91.1002	Spread (Values) 离散 (数值)	91.1367	Capability Performance, Lower (CpkL) 能力特性, 下限 (CpkL)
91.1008	Stability 稳定性	91.1368	Control Chart 控制图
91.1010	Stable Process 稳定工艺	91.1399	Fixed-Effect Model 固定效应模式
91.1015	Statistical Control 统计控制	91.1434	Larger-the-Better Characteristic 越大越好特性
91.1016	Statistical Hypothesis 统计假设	91.1442	Lot Size 批量
91.1017	Statistical Quality Control (SQC) 统计质量管理 (SQC)	91.1450	Nominal-Is-Best Characteristic 标称最佳特性
91.1117	Type I Error I 类错误	91.1455	Null Hypothesis 原假设
91.1132	User Inspection Lot (Material) 用户检验批 (材料)	91.1458	Orthogonal-Array Experiment 正交实验
91.1134	Variables Data 变量数据	91.1478	Poisson Distribution 泊松分布
91.1135	Variance 方差	91.1497	Random-Effects Model 随机效应模式
91.1136	Verification Time 验证时间	91.1498	Reciprocity Law 互易定律
91.1138	Virtual Condition 实效状态	91.1503	Repeatability (Accept/Reject) Decisions 重复性 (接受/拒绝) 判定
91.1182	Noise (Process Control) 干扰 (过程控制)	91.1519	Sensitivity Control 灵敏度控制
91.1210	Sum of Squares 平方和	91.1534	Standard Deviation of a Population 总体标准差
91.1228	Output Vector 输出矢量	91.1536	Statistical Process Control (SPC) 统计过程控制 (SPC)
91.1241	Regression Analysis 回归分析	91.1558	Vendor Inspection Lot (Material) 供应商检查批 (材料)

91.1694	Disposition (Defects) 处置（缺陷）	92.0296	Copper-Mirror Test 铜镜测试
91.1817	Smaller-the-Better Characteristic 越小越好特性	92.0302	Coupon 附连板
91.1879	In-Process Inspection 过程检验	92.0314	Crease 褶痕
91.1881	Internal Capability Assessment 内部能力评估	92.0324	Cross-Sectioning 剖切
91.1939	Objective Evidence 客观证据	92.0389	Discrepant Material 不合格材料
91.1989	Proficiency 熟练程度	92.0403	Download, Tester 测试仪下载
92 Inspection/Testing 检验/测试		92.0411	Dual Fixture 双组夹具
92.0004	Acceptance Tests 验收测试	92.0415	Edge Definition 边缘精度
92.0043	Apparent Field-of-View Angle 视角	92.0416	Edge Detection 边缘检查
92.0047	Arc Resistance 耐电弧性	92.0459	Exclusion Area 免检区
92.0064	Automatic Test Equipment 自动测试设备	92.0465	Extraneous Metal 残余金属
92.0065	Automatic Test Generation 测试自动生成	92.0471	False Alarm 假警报
92.0066	AWG Equivalent 等效AWG	92.0472	False Alarm Rate 假警报率
92.0074	Backdriving 反向驱动	92.0480	Fault Isolation 故障隔离
92.0089	Base Solderability 基本可焊性	92.0482	Fault Masking 故障屏蔽
92.0097	Baume 波美度	92.0483	Fault Modes 故障模式
92.0101	Bed-of-Nails Fixture 针床夹具	92.0484	Fault Resolution 故障分辨率
92.0103	Benchmark, Testing 测试基准	92.0485	Fault Signature 故障表征
92.0109	Biochemical Oxygen Demand 生化需氧量	92.0519	Fixture, Test 测试夹具
92.0157	Bulk Conductance 体积电导	92.0556	Functional Tester 功能测试仪
92.0172	Camber 弯度	92.0570	Go/No-Go Test 通过/不通过测试
92.0234	Personality Plate 专用模板	92.0571	Golden Assembly 黄金组件
92.0247	Conditioning 预处理	92.0572	Golden Board 黄金板
92.0284	Continuity 连通性	92.0573	Gouge 凿槽
92.0288	Acceptance Inspection (Criteria) 验收检验（准则）	92.0576	Grey-Scale Processing 灰度处理
92.0294	Coordinatograph 坐标仪	92.0582	Guarding 保护

92.0607	Hipot Test 高压测试	92.0924	Proportional Dimensions 比例尺寸
92.0636	In-Circuit Testing 在线测试	92.0925	Pull Strength 拉拔强度
92.0648	Input Vector 输入矢量	92.0938	Silver Migration 银迁移
92.0650	Inspection Personnel 检验人员	92.0939	Simulated Aging 模拟老化
92.0651	Inspection Rate 检验速率	92.0940	Simulated Datum 模拟基准
92.0652	Inter-Test Time (ITT) 测试间隔时间 (ITT)	92.1056	Testing Personnel 测试人员
92.0670	Known Good Assembly (KGA) 已知好组件 (KGA)	92.1057	Test Language 测试语言
92.0671	Known Good Board (KGB) 已知好板 (KGB)	92.1058	Test Master 测试原版
92.0693	Scanner, Test 测试扫描仪	92.1059	Test Pattern 测试图形
92.0700	Learn Time 学习时间	92.1060	Test Point 测试点
92.0714	Load Time 装载时间	92.1061	Test Program 测试程序
92.0733	Magnification Power 放大率	92.1062	Test Set 测试装置
92.0750	Meniscus 弯液面	92.1063	Test Step 测试步骤
92.0755	Scan Rate 扫描速率	92.1090	Titrometry 滴定分析
92.0760	Microprobe 微探针	92.1097	Touch-Up 修版
92.0792	Nail 钉	92.1123	Unconditional Test 无条件测试
92.0799	Neighborhood Processing 相邻处理	92.1124	Undercut, After Fabrication 加工后侧蚀
92.0812	Open, Electrical 电气开路	92.1125	Undercut, In Process 制程中侧蚀
92.0841	Peel Strength 剥离强度	92.1128	Unload Time 卸载时间
92.0843	Percent of the Field of View 视场百分比	92.1130	Upload (Test) 加负载 (测试)
92.0863	Pinhole (Material) 针孔 (材料)	92.1137	Vesical 疱
92.0866	Pit 麻点	92.1139	Visual Examination 目检
92.0901	Pregelation Particle 预胶凝粒子	92.1144	Volumetric Analysis 体积分析
92.0909	Primary Stage of Manufacture 制造主要阶段	92.1160	Wetting Balance 润湿称量仪
92.0918	Probe, Test 测试探针	92.1161	Whisker 晶须
92.0919	Probe Point 探针测试点	92.1214	Qualitative Analysis 定性分析

92.1215	Quantitative Analysis 定量分析	92.1603	Burr 毛刺
92.1220	Coupon (Breakaway) 附连板（可分离）	92.1641	Conformance Test Coupon Set 符合性测试用的附连板组
92.1244	Repeat Set-Up Time 重复设置时间	92.1649	Continuity Test 连通性测试
92.1250	Resistor Drift 电阻漂移	92.1664	Customer Test Data 客户测试数据
92.1271	Run Time 运行时间	92.1670	Delivery Inspection 交付检验
92.1278	Scan-Dead Time 扫描空载时间	92.1671	Final Inspection 最终检验
92.1287	Self Test 自检测试	92.1680	Destructive Physical Analysis (DPA) 破坏性物理分析（DPA）
92.1298	Shear Strength 剪切强度	92.1683	Test Board 测试板
92.1301	Short, Electrical 电气短路	92.1765	Shear Test 剪切测试
91.1302	Short-Term Capability 短期能力	92.1769	Specimens 试样
92.1396	Fault Simulation 故障模拟	92.1771	Substrate Bending Test 基板弯曲测试
92.1421	Inspection Facility 检验设施	92.1790	Individual Test Specimen (ITS) 单独试样（ITS）
92.1422	Inspection Lot 检验批	92.1819	Solder Spread Test 焊料铺展测试
92.1447	Microsectioning 显微剖切	92.1820	Test Coupon 附连测试板
92.1476	Plated-Through Hole Structure Test 镀覆孔结构测试	92.1874	Humidity Aging 潮湿老化
92.1492	Profile Factor 外形因数	92.1875	Humidity Indicator Card (HIC) 湿度指示卡（HIC）
92.1495	Quality Conformance Test Circuitry 质量符合性测试电路	92.2023	Scanning Electron Microscope (SEM) 电子扫描显微镜
92.1522	Set-Up Time 设置时间	92.2063	Steam Aging 蒸汽老化
92.1524	Sheet Capacitance 片电容	92.2072	Extraneous Copper (Base Materials) 残余铜（基材）
92.1525	Sheet Resistance 片电阻	92.2078	Scanning Acoustical Microscopy (SAM) 声学扫描显微镜（SAM）
92.1538	Surface Insulation Resistance (SIR) 表面绝缘电阻（SIR）	92.2081	Test Coupon Set 附连测试板组
92.1548	Treatment Transfer 处理物转移	92.2086	Standard Laboratory Conditions 标准实验室条件
92.1560	Vesication 起泡	92.2088	Thermal Shock Test 热冲击测试
92.1561	Vesicativity Ratio 起泡率	92.2098	Tracking Resistance 耐电痕性
92.1565	Bending Resistance 耐弯曲性	92.2150	Known Tested Die (KTD) 已测试合格芯片（KTD）
92.1566	White Spot 白斑		

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93.0001	Accelerated Aging 加速老化	94.0449	Escapes 漏失
93.0096	Bathtub Curve 浴盆曲线	94.0468	F (Fisher) Test F (费歇尔) 测试
93.0119	Accelerated Life Test 加速寿命测试	94.0470	Factorial Experiment 析因实验
93.0216	Accelerated Test 加速测试	94.0734	Major Defect 主要缺陷
93.0260	Acceleration Factor (AF) 加速因子 (AF)	94.0830	Pareto Analysis 帕拉多分析
93.0461	Experimental Error 实验误差	94.0931	Sigma (σ) 西格玛
93.0552	F Ratio F比率	94.0991	Scatter Diagram 散布图
93.0923	Producer's Risk 生产方风险	94.1118	Type II Error II类错误
93.1324	Alternative Hypothesis 备择假设	94.1126	Underwriters Symbol 安全检测标记
93.1403	Forced-Field Analysis 强力场分析	94.1163	Window 窗口
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94	Quality Management and Assurance 质量管理与保证	94.1191	Normal Distribution 正态分布
94.0062	Attributes Data 属性数据	94.1212	Qualification Agency 鉴定机构
94.0077	Background Variable 背景变量	94.1213	Qualification Testing 鉴定测试
94.0108	Binomial Distribution 二项分布	94.1219	Check List 检查清单
94.0116	Blocking Variables 分组变量	94.1365	Confidence Interval 置信区间
94.0147	Brainstorming 头脑风暴法	94.1496	Quality Conformance Testing 质量一致性测试
94.0188	Cause-and-Effect Diagram 因果图	94.1665	Damage 损坏
94.0195	Check Plot 校查图	94.1777	Risk Management Factor (RMF) 风险管理因子
94.0196	Check Sheet 校查单	94.1784	Capability Test Board (CTB) 能力测试板 (CTB)
94.0262	Confirmation Run 确认试验	94.1785	Capability Test Segment (CTS) 能力测试块 (CTS)
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94.0274	Consumer's Risk 使用方风险	94.1988	Production Data 生产数据
94.0301	Cost of Quality 质量成本	94.2027	Self Declaration 自我声明
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94.0352	Degrees of Freedom (df) 自由度 (df)	95	Component Quality and Reliability 元器件质量和可靠性
94.0448	Escape Rate 漏失率	95.0164	Burn-In 老化

95.0165	Burn-In, Dynamic 动态老化	96.1226	Metal Surface Migration 金属表面迁移
95.0166	Burn-In, Static 静态老化	96.1340	Blister 起泡
95.0504	Fine Leak 细泄露	96.1349	Circumferential Separation 环状断裂
95.0580	Gross Leak 重泄露	96.1394	Fatigue Strength 疲劳强度
95.1024	Stress Corrosion Cracking 应力腐蚀裂纹	96.1395	Fatigue-Strength Reduction Factor (Kf) 疲劳强度降低系数 (Kf)
95.1663	Cratering (Chip-Out) 陷坑	96.1444	Barrel Crack 孔壁裂纹
95.1750	Immersion Conditions 浸入条件	96.1445	Metal Migration 金属迁移
95.1755	Mechanical Stress 机械应力	96.1510	Reversion 裂解
95.1945	Package Cracking 封装裂纹	96.1640	Conductor Protrusion 导体突出
95.2131	Wire Bond Degradation 金属线键合退化	96.1659	Corner Crack (Knee Crack) 拐角裂纹
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96.0278	Contact Length 接触长度	96.2032	Tunnel Void, (Base Materials) 管状空洞 (基材)
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96.0662	Metal Through Migration 金属贯穿迁移	96.2176	Pad Cratering 盘坑裂
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**ANSI/IPC-T-50 互联电子线路封装产品****条款及定义申报表**

此表格将同步于企业和行业中例行的规定。
欢迎个体或单位参与发表意见。请填写此
份表格并反馈给：

IPC
3000 Lakeside Drive, Suite 309S
Bannockburn, IL 60015-1249
传真: 847 615.7105

申请人信息：
姓名: _____

公司名称: _____
所在城市: _____

所属国家: _____

电话号码: _____

日期: _____

- 新的条款及定义的申报.
- 对原有条款及定义的补充.
- 对原有条款及定义的修改.

条款	定义

如空间不足,请写在背面或附页上.

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与此条款及定义相关的委员会: _____

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IPC Office	Committee 2-30
Date Received: _____	Date of Initial Review: _____
Comments Collated: _____	Comment Resolution: _____
Returned for Action: _____	Committee Action: _____
Revision Inclusion: _____	<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input type="checkbox"/> Accept Modify
IEC Classification	
Classification Code • Serial Number	
Terms and Definition Committee Final Approval Authorization: Committee 2-30 has approved the above term for release in the next revision. Name: _____ Committee: _____ IPC 2-30 Date: _____	

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IPC 会员的裨益

技术标准

技术培训

市场研究

同行协作

印制电路和电子组装行业国际性的行业协会

IPC 简介

IPC(美国电子工业联接协会) 是为电路板及电子组装行业服务的国际性协会 , 拥有约 2400 家会员公司 , 他们代表着当今电路板及电子互连行业所有的领域。 IPC 的会员公司分布在全球近 53 国家和地区 , 这些会员公司既有员工人数仅 25 名 , 或者是全球知名的公司。人们几乎每天都在使用他们的产品。

IPC 成立于 1957 年 , 当时称为印制电路学会。 1977 年 , IPC 的名称修改为电子电路互连和封装学会 , 以进一步反映与电子互连行业相应的种类繁多的产品。 1998 年 , 我们的名称再次作了更改 , 暨 IPC - Association Connecting Electronics Industries® (IPC - 美国电子工业联接协会“为电路板及电子组装行业服务”) 来表明 IPC 成立后 40 多年来赢得的国际知名度和凸显 IPC 服务于电子互连行业的各个技术领域。

IPC 会员公司的行业领域是 :

- **印制电路行业** -- 生产印制电路裸板的公司或单位 , 产品供他们自己使用或销售给 OEM 客户。 IPC 会员公司中有全球知名的印制电路板制造商。另外 , 会员单位名录中 , 注明了印制电路板供应商 , 设备制造商 , 原材料制造商和服务公司。由于印制电路板是所有电子产品的基础 , 因此 , 设计和使用印制电路板的诸 OEM , 在会员单位名录有重点介绍。
- **电子组装行业** – 各类电子组装产品的公司 , 电子组装是电子产品的核心。会员单位名录中 , 有自己完成组装的 OEM , 或者将产品和系统外发包给电子制造服务 (EMS) 公司的 OEM 。 IPC 有着服务于 EMS 行业的悠久历史 , 如 1984 年出版第一份市场研究报告 , 80 年代末期在行业中发展和推广 EMS 名称的应用。所有的著名 EMS 公司都是 IPC 的会员。名录中 , 按组装设备制造商 , 原材料制造商 , 分别介绍。正如印制电路板行业一样 , 电子组装行业的会员也包括诸 OEM 公司。
- **设计** -- 设计印制电路板布线的设计师或公司。一名设计师可以是在一家电路板制造公司 , 组装公司 , 或 OEM 工作 ; 或者可以是独立的设计承包者。

为什么要加入 IPC 协会呢？

新技术与您同步

IPC 从 1959 年起编制各类标准至今，已出版了近 200 种技术标准、技术规格和技术指南手册。IPC-A610C（电子组装验收）和 IPC-A-600F（印制板验收）这两个技术标准已有中文版。目前，IPC 正在翻译其它的标准。这些翻译好的标准，由 IPC 正式同意出版，确保译文的质量与可信性。

IPC 的技术标准在国际上被普遍推广和使用着。IPC 是国际电工技术委员会（IEC）的成员之一，电子组装的技术顾问和印制电路板秘书处成员。IPC 也是世界电子电路委员会(WECC) 的秘书长。

员工培训和发展

IPC 为印制电路板和电子组装行业提供技术培训和授证的优质服务。作为 IPC 的会员，您的公司能从授证中获得裨益。比如，IPC-A-610 授证和培训计划，已培训了仅 4,000 名讲解员和 40,000 名生产操作员。目前，IPC 与中国的相关行业协会合作，开展关于电子组装验收，以及电子组装的返修和返工的可接受性的培训和授证。

IPC 每年还为印制电路板和电子组装行业提供 90 个专题培训，现场辅导培训和技术报告会，全套的培训录像和基于计算机培训的技术资料。IPC 的手工焊接工艺培训 DVD，配有中文解说。IPC 正在翻译其它的录像带和 DVD 技术培训资料，以服务于企业的技术培训需求。

IPC 设计师委员会（IPC Designers Council）有 1,200 名会员，它提供培训和授证，协助您们与设计师间国际交流和合作，解决一些主要的设计难题。

您的事业迈向新高峰

IPC 提供在线服务，介绍会员公司并协助继续发展：

- ▶ 会员公司网站与 IPC 网站免费连接
- ▶ IPC 会员公司的产品和服务内容数据库
- ▶ 免费下载技术文件
- ▶ 免费刊登在线元器件存货清单，使电子组装公司可以在线销售多余元器件，或在线采购元器件

IPC 还提供当今的市场与管理方面的讯息：

- ▶ 《IPC Review》月刊，免费分发给会员公司，分享行业与协会的最新发展
- ▶ IPC 的管理讯息，分析报告和亚洲专刊，向会员公司提供市场发展情况和促进市场发展的技术发展趋势
- ▶ 完整的市场研究报告，包括世界印制电路板市场和北美 EMS 市场报告给 IPC 行业市场和技术论坛（IPC EMTF，会员费不包括论坛费）

节省您的开支

IPC 会员购买技术标准手册，半价优惠。对于参加培训课和购买各种培训资料，包括会员公司参加 IPC 的国际性展览会，都有实质性的优待。



会员申请表

衷心感谢您们成为 IPC 协会会员和对 IPC 的支持！

为了使 IPC 能更快更好地为会员服务，请在以下项目中选择最能反映您们单位情况的一栏，
并按提示填写。

独立的印制板制造商

制造印制板，并将产品售给其它公司，如线路板或者其它电子互连产品。您们生产和销售哪些产品？

- 单面和双面印制板 多层印制板 柔性印制板 其它互连产品

董事长/总经理 : _____

独立的电子组装 EMSI 公司

根据合同，组装各类印制线路板，并可提供其它电子互连产品进行销售。

董事长/总经理 : _____

OEM-制造商，终端产品中使用电路板，或者自产自用电路板

制造和销售最终产品，其产品中有外购的或自制的电路板及其它电子互连产品。

系列产品 : _____

行业供货商

提供应用于电子互连产品制造或组装的原材料，机器，设备或技术服务。

供应产品品种 : _____

政府机构/高等院校，科研机构

设计，研究，使用电子互连产品，非盈利为目的的事业单位。

单位情况 :

单位名称 : _____

地址 : _____

电话 : _____ , 传真 : _____

联系人 : _____ , 职称 : _____

电子邮件 : _____ , 网址 : _____

请选择一项 :

- 单位会员，年费 US\$1,000，自加入日起 12 个月。
 同一集团，不同单位，如已有原始会员，年费 US\$800，自加入日起 12 个月。
 独立的电路板制造商，或 EMSI 供应商，年销售额不超过 100 万美元，年费 US\$600，
自加入日起 12 个月。
 行业协会，非盈利的高等院校和科研机构，年费 US\$250，自加入日起 12 个月。

此页留作空白



标准改善填写表

此表的目的在于让这标准的有关工业使用者向IPC技术委员会提供建议。

欢迎个人或集体对IPC提交建议。我们将会收集所有的建议并上交给相应的委员会。

IPC-T-50H CN

如果您能提供改善建议, 请填好下表并递至:

IPC
3000 Lakeside Drive, Suite 309S
Bannockburn, IL 60015-1219
传真: 847 615.7105
电子邮件: answers@ipc.org

1. 我想对以下提出更改建议:

要求, 章节数
 那种测试方法 _____, 章节数 _____

以上章节数被证明为:

不清楚 不适用 有误的
 其他

2. 具体的更改建议:

3. 对于标准的其他改进建议:

提交人:

姓名

电话

公司

电子邮件

地址

城市/国家/洲

日期

Association Connecting Electronics Industries



3000 Lakeside Drive, Suite 309 S
Bannockburn, IL 60015
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深圳办公室
电话：(86755) 86141218/19