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编制

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|  |  | 肖琨 | 2021.10.08 |
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修订历史

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| **版本号** | **修订人** | **更改描述** | **更改日期** |
| V1.00 | 肖琨 | 初版 | 2021.10.08 |
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目录

[1 目的 4](#_Toc120872778)

[2 适用范围 4](#_Toc120872779)

[3 英文缩写术语定义 4](#_Toc120872780)

[3.1 A-G 4](#_Toc120872781)

[3.2 H-N 7](#_Toc120872782)

[3.3 O-T 8](#_Toc120872783)

[3.4 U-Z 10](#_Toc120872784)

[4 中文术语定义 11](#_Toc120872785)

# 目的

本文档用来规范产品通用术语定义。

# 适用范围

本文档适用于公司所有产品。

# 英文缩写术语定义

## A-G

|  |  |  |
| --- | --- | --- |
| **术语** | **英文释义** | **中文释义** |
| AC | Alternating Current | 交流电流 |
| ACK | Acknowledge | 应答 |
| ADC | Analog to Digital Converter | 模数转换器 |
| AF | Antenna Factor | 天线因数 |
| AI | Analog Input | 模拟量输入 |
| ALU | Arithmetic Logic Unit | 算术逻辑单元 |
| AM | Amplitude Modulation | 幅度调制/调幅 |
| ANSI | American National Standards Institute | 美国国家标准协会 |
| ANT | Antenna | 天线 |
| AO | Analog Output | 模拟量输出 |
| APLAC | Asian Pacific Laboratory Accreditation Cooperation | 亚太实验室认证合作组织 |
| APP | Application | 应用程序 |
| ASCII | American Standard Code for Information Interchange | 美国信息交换标准码 |
| BCD | Binary Coded Decimal | 二进制编码的十进制数 |
| BCI | Bulk Current Injection | 大电流注入 |
| BLE | Bluetooth Low Energy | 低功耗蓝牙 |
| BMS | Battery Management System | 电池管理系统 |
| BOM | Bill of Material | 物料清单 |
| BO | Blood Oxygen | 血氧 |
| BP | Blood Pressure | 血压 |
| BVH | Blind Via Hole | 盲孔 |
| BVH | Buried Via Hole | 埋孔 |
| BW | Bandwidth | 带宽 |
| BZ | Buzzer | 蜂鸣器 |
| C | Capacitance, Capacitor | 电容量，电容器 |
| CAD | Computer-Aided Design | 计算机辅助设计 |
| CAE | Computer-Aided Engineering | 计算机辅助工程 |
| CAM | Computer-Aided Manufacturing | 计算机辅助制造 |
| CAN | Controller Area Network | 控制器局域网 |
| CAT | Computer-Aided Test | 计算机辅助测试 |
| CCD | Charge-Coupled Device | 电荷耦合器件 |
| CCD | Computer Controlled Display | 计算机控制显示 |
| CDM | Charged Device Model | 带电设备型号，一种静电放电源模型 |
| CE | Conducted Emissions | 传导发射 |
| CENELEC | European Committee for Electrotechnical Standardization | 欧洲电工标准化委员会 |
| CI | Conducted Immunity | 传导抗扰度 |
| CIM | Computer Integrate Manufacturing | 计算机集成制造 |
| CISPR | Committee on Special International Committee on Radio Interference | 国际无线电干扰特别委员会 |
| CMOS | Complementary | 互补MOS |
| COMP | Comparators | 比较器 |
| CPU | Central Processing Unit | 中央处理单元 |
| CRC | Cyclic Redundancy Check | 循环冗余校验 |
| CRS | Clock recovery system | 时钟恢复系统 |
| CS | Control Signal | 控制信号 |
| CS | Conducted Susceptibility | 传导抗扰度 |
| CSA | Canadian Standards Association | 加拿大标准协会 |
| CW | Continuous Wave | 连续波 |
| D | Diode | 二极管 |
| DAC | Digital to Analog Converter | 数模转换器 |
| dB | Decibels | 分贝 |
| dBm | dB relative to 1 milliwatt | 相对于 1 毫瓦(mW)的 dB |
| DC | Direct Current | 直流电流 |
| DDR | Double Data Rate SDRAM | 双倍速率SDRAM |
| DFU | Device Firmware Upgrade | 设备固件升级 |
| DI | Digital Input | 数字量输入 |
| DIP | Dual In-Line Package | 双列直插封装 |
| DMA | Direct Memory Access | 直接内存访问 |
| DO | Digital Output | 数字量输出 |
| DPI | Direct Power Injection | 直接功率注入 |
| DRAM | Dynamic Random-Access Memory | 动态随机存储器 |
| DSB | Double-Sided Printed Board | 双面印制板 |
| DSP | Digital Signal Processing | 数字信号处理 |
| DSP | Digital Signal Processor | 数字信号处理器 |
| DTL | Diode-Transistor Logic | 二极管晶体管逻辑 |
| DUT | Device Under Test | 被测器件 |
| DVM | Digital Voltmeter | 数字电压表 |
| EDA | Electric Design Automation | 电子设计自动化 |
| EDA | Engineering Design Automaton | 工程设计自动化 |
| ECG | Electrocardiograph | 心电图 |
| ECN | Engineering Change Notice | 工程变更通知 |
| ECO | Engineering Change Order | 工程变更指令 |
| EEE | Electromagnetic Environmental Effects | 电磁环境影响 |
| ELFR | Early Life Failure Rate Test | 早期失效率实验 |
| EMC | Electro Magnetic Compatibility | 电磁兼容 |
| EMD | Electromagnetic Disturbance | 电磁骚扰 |
| EMI | Electro Magnetic Interference | 电磁干扰 |
| EMMC | Embedded Multi Media Card | 一种存储介质 |
| EMP | Electromagnetic Pulse | 电磁脉冲 |
| EMS | Electro Magnetic Susceptibility | 电磁耐受 |
| EOC | End of Conversion | 转换结束 |
| EPROM | Erasable Programmable Read Only Memory | 可擦可编程只读存储器 |
| EEPROM | Electrically EPROM | 电可擦可编程只读存储器 |
| ERP | Enterprise Resource Planning | 企业资源计划系统 |
| ERP | Effective Radiated Power | 有效辐射功率 |
| ESA | Electrostatics Society of America | 美国静电学会 |
| ESD | Electro-Static Discharge | 静电放电 |
| EUT | Equipment Under Test | 被测设备 |
| EXTI | Extended interrupt/event controller | 扩展中断/事件控制器 |
| FCC | Federal Communications Commission | 联邦通信委员会 |
| FET | Field-Effect Transistor | 场效应晶体管 |
| FFC | Flexible Flat Cable | 挠性扁平电缆 |
| FIFO | First Input First Output | 先进先出，队列 |
| FLASH |  | 一种存储介质 |
| FM | Frequency Modulation | 频率调制/调频 |
| FPC | Flexible Printed Circuit | 挠性印制电路 |
| FPU | Floating Point Unit | 浮点单元 |
| FS | Full Scale | 满量程 |
| FSK | Frequency Shift Keying | 频移键控 |
| FST | Fast Switching Shyster | 快速晶闸管 |
| FT | Factory Test | 工厂测试 |
| FU | Fuse Unit | 保险丝装置 |
| FW | Firmware | 固件 |
| GND | Ground | 地 |
| GPIO | General-Purpose Input/Output | 通用输入与输出 |

## H-N

|  |  |  |
| --- | --- | --- |
| HBM | Human Body Model | 人体模型，一种静电放电源模型 |
| HEMP | High-altitude Electromagnetic Pulse | 高空电磁脉冲 |
| HID | Human Interface Device | 人机接口设备 |
| HW | Hardware | 硬件 |
| I2C | Inter-Integrated Circuit | 集成电路总线 |
| IBIS | Input/output Buffer Information Specification | 输入/输出缓冲器信息规范 |
| IC | Integrated Circuit | 集成电路 |
| IEC | International Electrotechnical Commission | 国际电工委员会 |
| IEEE | Institute of Electrical and Electronics Engineers | 电气和电子工程师协会 |
| IEMI | Intentional Electromagnetic Interference | 有意电磁干扰 |
| IGBT | Insulated Gate Bipolar Transistor | 绝缘栅双极型晶体管 |
| IGFET | Insulated Gate Field Effect Transistor | 绝缘栅场效应晶体管 |
| IIC | Inter-Integrated Circuit | 集成电路总线 |
| iNARTE | International Association for Radio, Telecommunications and Electromagnetics | 国际无线电、电信和电磁学协会 |
| IO | Input/Output | 输入/输出 |
| IQC | Incoming Quality Control | 来料质量控制 |
| IR | Infrared Radiation | 红外辐射 |
| IRQ | Interrupt Request | 中断请求 |
| ISM | Industrial, Scientific and Medical equipment | 工业、科学和医疗设备 |
| ISO | International Organization for Standardization | 国际标准化组织 |
| ITE | Information Technology Equipment | 信息技术设备 |
| IVD | In Vitro Diagnosis | 体外诊断 |
| IWDG | Independent Watchdog | 独立看门狗 |
| JEDEC | Joint Electron Device Engineering Council | 联合电子器件工程委员会/固态技术协会 |
| JFET | Junction Field Effect Transistor | 结型场效应晶体管 |
| LCD | Liquid Crystal Display | 液晶显示器 |
| LED | Light Emitting Diode | 发光二极管 |
| LISN | Line Impedance Stabilization Network | 线路阻抗稳定网络 |
| LPR | Low-Power Regulator | 低功率稳压器 |
| LPUART | Low-Power Universal Asynchronous Receiver Transmitter | 低功耗通用异步收发传输器 |
| LSB | Least Significant Bit | 最低有效位 |
| M | Motor | 电动机 |
| MCT | MOS Controlled Gyrator | 场控晶闸管 |
| MCU | Microcontroller Unit | 单片机 |
| ME |  |  |
| MIC | Microphone | 麦克风 |
| Min | Minute | 分 |
| MLB | Multilayer Printed Board | 多层印制板 |
| MOOP | Means of Operator Protection | 对操作者的防护措施 |
| MOP | Means of Protection | 防护措施 |
| MOPP | Means of Patient Protection | 对患者的防护措施 |
| MOQ | Minimum Order Quantity | 最小订单量 |
| MOS | Metal Oxide Semiconductor | 金属氧化物半导体 |
| MOSFET | Metal Oxide Semiconductor FET | 金属氧化物半导体场效应晶体管 |
| MPU | Memory Protection Unit | 存储器保护单元 |
| MSI | Multi-Speed Internal |  |
| MTBF | Mean Time Between Failure | 平均无故障工作时间 |
| N | Negative | 负 |
| NA | Not Applicable | 不适用 |
| NAND | NOT-AND | 一种存储介质 |
| NC | Not Connected | 不连接 |
| NEMP | Nuclear Electromagnetic Pulse | 核电磁脉冲 |
| NMOS | N-Channel Metal Oxide Semiconductor FET | N沟道MOSFET |
| NOR |  | 一种存储介质 |
| NTC | Negative Temperature Coefficient | 负温度系数 |
| NVIC | Nested Vectored Interrupt Controller | 嵌套向量中断控制器 |

## O-T

|  |  |  |
| --- | --- | --- |
| OATS | Open Area Test Site | 开放区域试验场地 |
| OLED | Organic Light-Emitting Diode | 有机发光二极管 |
| OPA | Operational Amplifier | 运算放大器 |
| OPAMP | Operational Amplifier | 运算放大器 |
| OTA | Over The Air | 空中升级 |
| P | Pressure | 压力 |
| PAM | Pulse Amplitude Modulation | 脉冲幅度调制 |
| PC | Personal Computer | 个人电脑 |
| PCB | Printed Circuit Board | 印制电路板 |
| PCBA | Printed Circuit Board Assembly | 印刷电路板装配 |
| PCM | Pulse Code Modulation | 脉冲编码调制 |
| PDM | Pulse Duration Modulation | 脉冲宽度调制 |
| PF | Power Factor | 功率因数 |
| PFM | Pulse Frequency Modulation | 脉冲频率调制 |
| PD | Proportional-Differential (Controller) | 比例微分(控制器) |
| PI | Proportional-Integral (Controller) | 比例积分(控制器) |
| PID | Proportional-Integral-Differential (Controller) | 比例积分微分(控制器) |
| PLL | Phase-Locked Loop | 锁相环路 |
| PLT | Power Line Transient | 电力线瞬变 |
| PMOS | P-channel metal oxide semiconductor FET | P沟道MOSFET |
| P-P | Peak-To-Peak | 峰-峰 |
| PPM | Pulse Phase Modulation | 脉冲相位洲制 |
| PROM | Programmable Read Only Memory | 可编只读程存储器 |
| PTC | Positive Temperature Coefficient | 正温度系数 |
| PTH | Plating Through Hole | 通孔 |
| PWB | Printed Wiring Board | 印制线路板 |
| PWM | Pulse Width Modulation | 脉宽调制 |
| QA | Quality Assurance | 质量保证 |
| QC | Quality Control | 质量控制 |
| QUADSPI | Quad SPI Memory Interface | 四位SPI存储器接口 |
| R | Resistance, Resistor | 电阻，电阻器 |
| RAM | Random Access Memory | 随机存储器 |
| RDP | Readout Protection | 读出保护 |
| RE | Radiated Emissions | 辐射发射 |
| REF | Reference | 参考，基准 |
| RES | Resistance | 电阻 |
| RES | Radiated Electromagnetic Susceptibility | 辐射电磁敏感性 |
| REV | Reverse | 反转 |
| RF | Radio Frequency | 射频 |
| RFI | Radio Frequency Interference | 射频干扰 |
| RGB | Red/Green/Blue | 红绿蓝 |
| RI | Radiated Immunity | 辐射抗扰度 |
| RNG | Random Number Generator | 随机数发生器 |
| RoHS | Restriction Of Hazardous Substances | 有害物质限制指令 |
| ROM | Read Only Memory | 只读存储器 |
| RP | Resistance Potentiometer | 电位器 |
| RS | Radiated Susceptibility | 辐射抗扰度 |
| RST | Reset | 复位信号 |
| RTC | Real-Time Clock | 实时时钟 |
| RTOS | Real-Time Operating System | 实时操作系统 |
| SAI | Serial Audio Interfaces | 串行音频接口 |
| SDMMC | Secure Digital Input/Output And Multimedia cards Interface | 安全的数字输入/输出和多媒体卡接口 |
| SerDes | Serializer/Deserializer | 串行器/解串器 |
| SPI | Serial Peripheral Interface | 串行外设接口 |
| SpO2 | Blood oxygen saturation | 血氧饱和度 |
| SRAM | Static Random-Access Memory | 静态随机存储器 |
| SSB | Single-Sided Printed Board | 单面印制板 |
| SSO | Simultaneous Switching Output noise | 同步开关输出噪声 |
| SW | Software | 软件 |
| SWJ-DP | Serial Wire JTAG Debug Port | 串行JTAG调试接口 |
| SWPMI | Single Wire Protocol Master Interface | 单线协议主接口 |
| TEM | Transverse ElectroMagnetic | 横向电磁 |
| TFT | Thin Film Transistor | 薄膜场效应晶体管 |
| TP | Test Point | 测试点 |
| TS | Temperature Sensor | 温度传感器 |
| TSC | Touch Sensing Controller | 触摸感应控制器 |
| TTL | Transistor-Transistor Logic | 晶体管-晶体管逻辑 |

## U-Z

|  |  |  |
| --- | --- | --- |
| UART | Universal Asynchronous Receiver/Transmitter | 通用异步收发传输器 |
| UDI | Unique Device Identification | 医疗器械唯一标识 |
| UE | User Experience | 用户体验 |
| UI | User Interface | 用户界面 |
| UI | Unit Interval | 单位间隔 |
| USART | Universal Synchronous/Asynchronous Receiver Transmitter | 通用同步/异步收发传输器 |
| UUID | Universally Unique Identifier | 通用唯一识别码 |
| VCC | Collector Supply Voltage | 集电极供电电压 |
| VCCI | Voluntary Control Council for Interference | 日本的电磁兼容认证标志 |
| VDD | Drain Supply Voltage | 漏极供电电压 |
| VDR | Voltage Dependent Resistor | 压敏电阻 |
| VEE | Emitter Supply Voltage | 发射极供电电压 |
| VIH | Input High Voltage | 输入高电压 |
| VIL | Input Low Voltage | 输入低电压 |
| VOH | Output High Voltage | 输出高电压 |
| VOL | Output Low Voltage | 输出低电压 |
| VSS | Source Supply Voltage | 电源供应电压 |
| VSWR | Voltage Standing Wave Ratio | 电压驻波比 |
| WIFI | Wi-Fi | 一种无线局域网通信技术 |
| WRP | Write Protection | 写保护 |
| WWDG | Window Watchdog | 窗口看门狗 |
| XTALK | Crosstalk | 串扰 |

# 中文术语定义

|  |  |  |
| --- | --- | --- |
| **术语** | **英文翻译** | **释义** |
|  |  |  |
| 降额 | Derating | 元器件使用中承受的应力低于其额定值，以达到延缓其参数退化，提高使用可靠性的目的。通常用应力比和环境温度来表示 |
| 固件 | Firmware |  |
| 硬件 | Hardware |  |
| 管代 | Management representative | 管理者代表 |
| 额定值 | Rating | 元器件允许的最大使用应力值 |
| 软件 | Software |  |
| 应力 | Stress | 影响元器件失效率的电、热、机械等负载 |
| 应力比 | Stress Ratio | 元器件工作应力与额定应力之比。应力比又称降额因子 |
|  |  |  |
|  |  |  |