

ANAGHA[^]



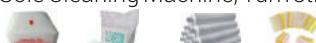
One Stop Solution For
ELECTRONICS MANUFACTURING INDUSTRIES

Product Catalogue





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About ANAGHA

Who Are We

ANAGHA Systems is one of the fastest growing company to supply Static Control & Cleanroom Products, ESD Packing & Storage Solutions, Test & Measuring Equipment's, ESD Work Stations & Chairs, Soldering & De-Soldering Tools, Fume Extractors, Robotic Soldering & Dispensers, Cutting & Forming Tools, Ultra Sonic Cleaners, Cleaning & Production Consumables and best of solutions for Electronics Manufacturing Industries in INDIA.

We believe in growing our business by providing value added services & products to our customers. We listen to our customers and work hard to deliver beyond their expectations. At the same time we are continually looking to the future and working to source innovative products globally & maintain the stocks locally. We keep things simple, lean and fast.

With wide range of products, we are proud to cater Automobile, Telecom, Semiconductor, Defense, Aerospace, Power, EMS and Industrial Sectors.

Why Us

With a significant experience of more than a decade, we understand the requirements of Indian Electronics Manufacturing Industry and how environmental control is critical for the delivery of quality assured, safe and effective assemblies.

Our outstanding commitment to excellence is reflected in the high level of technology oriented projects we handle today. When you work with ANAGHA, you can rest assured that you'll work not just with experts but experts who truly care about your requirements, whatever its size and scope.

ANAGHA products' quality is being certified every day by an increasing number of satisfied customers. Our product quality will help you stay ahead of your competition.

Our Vision

ANAGHA's vision is to be the recognized leader providing best-in-class services at an affordable cost by exceeding customer's expectations. For us customer satisfaction is given top place. We are very friendly in our dealings to the customers and it helps us retain existing clients and expand our clientele. We always try to improve the quality of our products by exploring sources globally.

Consistent customer relationship management is the focus of all our activities. ANAGHA is committed in maintaining high level of customer satisfaction by ensuring Reliability, Accountability, Trust, Honesty and Integrity.

Social Responsibility

Being socially responsible is imperative for all organizations today. We pledge to harmonize with nature and work for a better environment through activities showing a strong sense of social responsibility.

We strive to conserve natural resources through innovative processes and continuous improvement methodologies with the goal of reducing, reusing, recycling, and identifying safer material substitutes or alternatives for our operations.





About ESD

What is ESD

Electrostatic discharge (ESD) is the sudden flow of electricity between two electrically charged objects caused by contact, an electrical short, or dielectric breakdown. A buildup of static electricity can be caused by tribocharging or by electrostatic induction. The ESD occurs when differently-charged objects are brought close together or when the dielectric between them breaks down, often creating a visible spark.

ESD can create spectacular electric sparks (lightning, with the accompanying sound of thunder, is a large-scale ESD event), but also less dramatic forms which may be neither seen nor heard, yet still be large enough to cause damage to sensitive electronic devices. Electric sparks require a field strength above approximately 40 kV/cm in air, as notably occurs in lightning strikes.

ESD is a serious threat to the industry today. Major cause for the ESD damage in the real world is the human. A study in Semiconductor Reliability news estimated that approximately 60% of device failures are due to ESD. ESD costs the electronic industry millions of dollars each year in damaged components, non-functional circuit board or missing information. ESD can occur in manufacturing, movements in the shop floor, field handling with no visible signs of damage.

Precautions

ESD damage to Electrostatic Discharge Sensitive Devices (ESDS) can be minimized by using ESD control measures.

Handle electrostatic discharge sensitive devices (ESDS) only in an ESD protected area (EPA).

Avoid electrostatic potential differences and electrostatic discharges.

Use wrist straps, approved footwear and floor combination for personnel grounding.

Wear properly fastened dissipative garments.

Avoid electrostatic generating materials (normal PE, PVC, PS, etc.) inside an EPA.

Do not expose ESDS to electrostatic fields > 100V / cm (10 kV/m)!

Use only approved ESD protective packaging materials.

Awareness, personnel training, continuous monitoring are essential for maintaining a static control program.



Personal ESD Control Products



ESD Aprons

AN90001

Material: 98% Polyester & 2% Conductive Carbon Fiber
Superior air permeability & particle filtration

Fabric Type: 5 MM Grid

Surface Resistance: $10^6 \sim 10^{10} \Omega$

Decay Time: ±0.5 Sec

Weave: ½ Twill

Colors: White, Light Blue, Navi Blue, Pink, Yellow & Green

Sizes: S, M, L, XL & XXL available

ESD Metal Wrist Strap

AN90004



Color: Blue or Black(available on request)

Cord Length: 6 Feet

Cord Diameter: 2.05 MM

Easily adjustable & one size fits for all

Stainless steel inner band provides excellent electrical contact.

ESD SPU Slippers

AN90005



Sizes: 36, 38, 40, 42 & 44

Light weight and soft

Anti-static type

Surface Resistance: $10^6 \sim 10^9 \Omega$

ESD SPU Slippers

AN90006



Sizes: 36, 38, 40, 42 & 44

Light weight and soft

Anti-static type

Surface Resistance: $10^6 \sim 10^9 \Omega$



ESD Caps

AN90002

Material: 98% Polyester & 2% Conductive Carbon Fiber
Superior air permeability & particle filtration

Fabric Type: 5 MM Grid

Surface Resistance: $10^6 \sim 10^{10} \Omega$

Decay Time: ±0.5 Sec

Weave: ½ Twill

Colors: White, Light Blue, Navi Blue, Pink, Yellow & Green

Sizes: S, M, L, XL & XXL available

ESD Wrist Straps

AN90003



Color: Light Blue

Cord Length: 6 Feet

Cord Diameter: 2.05 MM

Conductive metal threads with stainless steel plate
provides maximum skin contact

Soft elastic band for comfort

Easily adjustable & one size fits for all.



ESD Butterfly Shoes

AN90007

Sizes: 36, 38, 40, 42 & 44

Material: PVC Sole

Light weight and soft

Anti-static type

Surface Resistance: $10^6 \sim 10^9 \Omega$

Personal ESD Control Products



**Velcro Mesh Side
Shoes**

AN90008

Sizes: 36, 38, 40, 42 & 44

Material: PVC Sole

Light weight and soft. Mesh on top for comfort.

Anti-static type

Surface Resistance: $10^6 \sim 10^9 \Omega$



**Non-Woven Strip
Caps**

AN90011

Color: White & Light Blue.

Material: Non-Woven

Breathable, prevents dust & micro-organisms,

Non-allergic.



Heel Grounder

AN90009

One MegOhm resistor

Two layer rubber grounder

Bottom layer towards floor, blue dissipative rubber

One size suitable for all

Surface Resistance: $10^6 \sim 10^9 \Omega$



Non-Woven Mask

AN90012

Color: White & Light Blue.

Material: Non-Woven

Ear & neck Clip design, prevents dust & micro-organisms,

Non-allergic.



ESD Finger Cots

AN90013

Color: Pink, White

Sizes: M

Anti-Static, Powder free, Non allergic, soft, comfortable,
apply in cleanroom, class 100.

For better result, store in dry & cool place.



Toe Grounder

AN90010

One MegOhm resistor

Two layer rubber grounder

Designed to fit high heeled & flat sole footwear

One size suitable for all

Surface Resistance: $10^6 \sim 10^9 \Omega$

ESD Gloves



ESD Gloves

AN90014

Color: White.

5 MM Stripe type

Material: 98% Polyester & 2% Conductive Carbon Fiber

Surface Resistance: $10^6 \sim 10^9 \Omega$

Sizes: S, M, L & XL



Top PU Coated
Nylon Gloves

AN90017

Material: Nylon & PU Coating on finger tips for excellent sensitivity, abrasion resistance.

Comfortable grip, breathable back & palm side.

Color: White

Sizes: S, M, L & XL

Surface Resistance: $10^6 \sim 10^9 \Omega$

Static Decay time: 0.1 Sec



ESD PVC Dotted
Gloves

AN90015

Material: ESD Fabric with PVC dotting on palm side

Surface Resistance: $10^6 \sim 10^9 \Omega$

Sizes: S, M, L & XL



Palm PU Coated
Gloves
(Carbon Fiber)

AN90018

Material: Nylon & PU coating on palm side & Carbon Fiber
Comfortable grip & breathable back.

Color: Grey

Sizes: S, M, L & XL

Surface Resistance: $10^6 \sim 10^9 \Omega$

Static Decay time: 0.1 Sec



Palm PU Coated
Nylon Gloves

AN90016

Material: Nylon & PU coating on palm side for excellent sensitivity, abrasion resistance.

Comfortable grip & breathable back.

Color: White

Sizes: S, M, L & XL

Surface Resistance: $10^6 \sim 10^9 \Omega$

Static Decay time: 0.1 Sec



Top PU Coated
Gloves
(Carbon Fiber)

AN90019

Material: Nylon & PU coating on top side & Carbon Fiber
Comfortable grip & breathable back.

Color: Grey

Sizes: S, M, L & XL

Surface Resistance: $10^6 \sim 10^9 \Omega$

Static Decay time: 0.1 Sec



Cleanroom Glove



Cleanroom Nitrile Gloves

AN90020

Material: Nitrile Compound

Color: Blue, White

Size: S, M, L & XL

Length: 9" or 12"

Texture: available in finger texture / top texture

Tensile Strength: ≥ 18 Mpa

Elongation: ≥ 700 MM

Anti-Skid

Industrial Grade



Cleanroom Nylon Half Gloves

AN90023

Material: Nylon

Color: White

Finger tips open

Size: S, M, L & XL

Industrial Grade



Cleanroom Latex Gloves

AN90024



Cleanroom Vinyl Gloves

AN90021

Material: Vinyl

Color: Transparent

Size: S, M, L & XL

Length: 9" or 12"

Industrial Grade & Economical

Material: Latex / Natural Rubber

Color: Yellow

Size: S, M, L & XL

Length: 9" or 12"

Texture: available in palm texture & finger texture

Tensile Strength: ≥ 18 Mpa

Elongation: ≥ 700 MM

Industrial Grade & more economical compared with
Nitrile Gloves



Cleanroom Nylon Gloves

AN90022

Material: Nylon

Color: White

Size: S, M, L & XL

Industrial Grade

Cleanroom Products



ESD Chairs

AN90025

Polyurethane seat & back rest material with 2 inch cushion
Color: Black
Revolving type
Gas lift control height adjustment
Mechanical adjustment for seat & back rest
Anodized Aluminium / Chrome plated MS base material with 5 legs
Conductive swiveling twin castors, braked when unloaded.
All 5 conductive castors optional
Additional grounding point for better grounding
Height adjustment range: 475 to 575/650/750 mm
Seat size: 475 x 450 mm
Back rest size: 450 x 400 mm
Surface resistance: 10^6 - 10^9 Ω
Arm Rest & Foot Ring (20" Dia Chrome Plated) possible optionally.



ESD Work Stations

AN90027

Length of work station: 0.5 – 2 Mtrs / as per customer requirement
High quality Aluminium profile / MS Powder Coated frame material, Thickness as per customer requirement
ESD/Conductive powder coating optional
ESD laminated with edge binding/post forming table top material
Provision for height adjustment & double side working type is optional
Provisions for ESD Grounding Cords
Modular drawer unit as per customer requirement
Provision for CPU at the bottom of workstation
Key Board Tray & Mouse Pad with Plastic/MS powder coated/Conductive powder coating material
LCD/LED Monitor clamp as per customer requirement.
Common ESD Grounding Socket will be provided on the front bottom side
Instrument for continuous work station monitor is also possible
Pin up board/white board
Provision for ESD Component Bins as per customer requirement
Provision for RJ45 Socket
Provision to fix magnifiers
Foot rest possible on request
Customized Electrical Panel as per customer requirement:
- MCP 16 Amps Single Pole / Double Pole
- LED Power indicator lamp
- LED Illumination unit with a control switch
- Modular sockets 5/15 Amps universal
- Modular sockets 5 Amps Indian sockets
- Modular sockets 13 Amps Intel
- Modular switches 5 Amps/15 Amps
- 3 Phase MCB / Socket / Plug can be provided



ESD Stools

AN90026

Polyurethane seat material with 2 inch cushion
Color: Black
Revolving type / Fixed type with studs is possible
Gas lift control height adjustment
Anodized Aluminium / Chrome plated MS base material with 5 legs
Conductive swiveling twin castors, braked when unloaded.
All 5 conductive castors optional
Additional grounding point for better grounding
Height adjustment range: 475 to 575
Surface resistance: 10^6 - 10^9 Ω
Foot Ring (20" Dia Chrome Plated) possible optionally



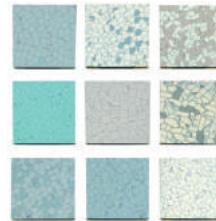
Cleanroom Products



ESD Tubular Work Stations

AN90028

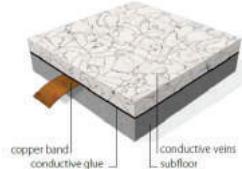
Length of work station: 0.5 – 2 Mtrs / as per customer requirement
High quality tubular frame material, Base thickness as per customer requirement
ESD/Conductive powder coating optional
ESD laminated with edge binding/post forming table top material
Provision for height adjustment & double side working type is optional
Provisions for ESD Grounding Cords
Modular drawer unit as per customer requirement
Provision for CPU at the bottom of workstation
Key Board Tray & Mouse Pad with Plastic/MS powder coated/Conductive powder coating material
LCD/LED Monitor clamp as per customer requirement.
Common ESD Grounding Socket will be provided on the front bottom side
Customization is possible as per customer requirement.



ESD PVC Floor Tiles

AN90029

Material: PVC
Surface Resistance: 10^6 - 10^9 Ω
Size: 600 x 600 MM
Thickness: 2 MM
Accessories: PVC Welding Rod, Copper Tape & Conductive Adhesive
Excellent wear resistance and easy cleaning with special coating
Conductive material is distributed evenly through-out the tile so that it has permanent conductivity
Fire proof & chemical resistance properties.



ESD Floor Mats

AN90031



ESD Table Mats

AN90030



Color: Green (Shiny)
Size: 01 x 10 Mtr
Thickness: 2.0 MM
No. of layers: 02 (Static Dissipative & Conductive layers)
Surface Resistance:
Static Dissipative Layer (Surface): $< 10^9$ Ω
Conductive Layer (Bottom): $< 10^4$ Ω
Time for Static Dissipation: < 0.1 Sec

Color: Blue & Grey
Size: 1.5 x 20 / 02 x 15 Mtr
Thickness: 2.0 MM
No. of layers: 02 (Static Dissipative & Conductive layers)
Surface Resistance:
Static Dissipative Layer (Surface): $< 10^9$ Ω
Conductive Layer (Bottom): $< 10^6$ Ω
Time for Static Dissipation: < 0.1 Sec

Cleanroom Products



Grounding Cords

AN90032

Button to Button
Cord Length: 6 Ft
Cord Diameter: 2.4 MM
Easy snapping to mat



Grounding Cords

AN90033

Button to Crocodile Pin
Cord Length: 6 Ft
Cord Diameter: 2.4 MM
Easy snapping to mat



Grounding Cords

AN90034

Button to Grounding Terminal
Cord Length: 6 Ft
Cord Diameter: 2.4 MM
Easy snapping to mat



Grounding Buttons

AN90035

Material: Stainless Steel
Fast & easy to install 10 mm socket.
Includes one 10 mm socket & revit base.
Suitable for ESD Workstations & Mats(Table & Floor mats)



ESD Caution Tapes

AN90036

Material: PVC
Adhesive: Acrylic
Width: 48 mm
Length: 27 m
Thickness: 0.15 mm
Color: Yellow



ESD Caution Labels

AN90037

Material: PVC
Adhesive: Acrylic
Dimensions is possible as per customer request
Thickness: 0.15 mm
Color: Yellow



Copper Foil Tapes

AN90038

Thickness: 0.1 – 0.2 mm
Width: 20 – 40 mm
Length: 20 mtr
Tapes with & with-out adhesive types are available



Cleanroom Products



Grounding Sockets

AN90039

Cord Size: 6 Feet
Cord Diameter: 2.4 mm
Flexible grounding socket
Can be mounted on the front bottom side of the work bench/station to save work space have easy access
At a time two wrist straps can be connected.



Wrist Strap Online Monitor

AN90040

No manual checking is required by operator
Instant warning of wrist strap failure increases production efficiency
Highly reliable and easy to use
Input: 6V DC
Single & Dual Pin models are available on request



ESD File Holder

AN90041

Material: PE
Color: Transperant
Size: A4
Thickness: 0.08 mm
Surface Resistance: $10^6 \sim 10^{10} \Omega$



ESD Sticky Mats

AN90042

Multi-layer dust sticky floor mat made of PVC base material
No. of layers: 30 (approx.)
Color: Blue
Size: 18"x36" / 24"x36" / 26"x45" (Request for availabe size)
Glue Coating Thickness: 5 – 7 μm
Dust Removal Effect: 99.90%



White Sticky Rollers

AN90043

Material: 50 – 60 μm glue coating PE
Glue Coating Thickness: 8 – 12 μm (approx.)
Size: 4"x18m, 6"x18m, 8"x18m, 10"x18m & 12"x18m
Color: White
Inner Tube Diameter: 38.5 mm (± 0.5 mm)
Suitable for semiconductor electronics & other purifications process industries.
Note: Handle need to be purchased separately.



Blue Sticky Rollers

AN90044

Material: 50 – 60 μm glue coating PE
Glue Coating Thickness: 8 – 12 μm (approx.)
Size: 4"x18m, 6"x18m, 8"x18m, 10"x18m & 12"x18m
Color: Blue
Inner Tube Diameter: 38.5 mm (± 0.5 mm)
Suitable for semiconductor electronics & other purifications process industries.
Note: Handle need to be purchased separately.

Cleanroom Products



Bench Top Ionizers

AN90045

Air Flow: 45 - 110 CFM
Air Coverage: 40 x 60 CM (Approx.)
Current Consumption: 0.25A / 0.12A
Size: 190 x 110 x 245 MM (L x W x H)
Weight: 3 Kg



ESD Solvent Dispensers

AN90048

Material: HDPE (bottle) + Metal (cap)
Color: Blue
Capacity: 4 Oz & 6 Oz
Normal A Type Cap
Surface Resistance: $< 10^9 \Omega$



Overhead Ionizers

An90046

Air Flow: 80 – 220 CFM
Air Coverage: 40 x 80 CM (Approx.)
Operating Temperature: 0 - 50°C
Input Voltage: 110V/60Hz or 220V/50Hz
Current Consumption: 0.9A / 0.45A
Size: 600 x 170 x 116 CM (Approx.)
Weight: 4.8 Kg



Kapton Tapes

AN90049

Material: Polyimide Film
Adhesion: Silicon
Color: Amber
Thickness: 0.06 mm
Length: 33 Mtr
Heat Resistance: 260 - 280°C
Elongation: $\geq 40\%$
Breakdown Strength: ≥ 150 N/25mm
Tensile Strength: ≥ 140 N/25mm
Adhesion: 6 N/25mm

ESD Brushes

AN90047



Material: PP Conductive Brush Handle + PA Plastic Fiber
Brush Bristle
Color: Black
Surface Resistance: $10^6 - 10^{10} \Omega$
Hard Bristle Brush – AN900-- - 01, 02, 05, 06, 11
Hard Bristle Brushes are useful for easy to clean bare
PCB dirt
Soft Bristle Brush – AN900-- - 03, 04, 07, 08, 09, 10
Soft Bristle Brushes are useful to clean and protect
component which are scratch sensitive

Cleanroom Products



Shoe Cover Dispensers

AN90050

Capacity: PE Cover: 100 pcs/box

CPE Cover: 80 pcs/box

Non-Woven Cover: 50 pcs/box

Release Speed: 3 Sec/piece

Net Weight: 17 Kgs (Approx.)

Machine Size: 65 x 31 x 72 MM (L x W x H)

Power Supply: AC 220V/110V, 50/60 Hz, 75W



Vacuum Pen

AN90053

Material: Plastic & Alloy

Color: Silver tone & Black

Pen Size: 1.1 x 15 CM

Suction Head Diameter: 10, 6, 3 MM

Absorption Capacity: 40, 18 & 3 g

Net Weight: 15g (Approx.)

Package Content: 1 x Vacuum Sucking Pen & 3 x Headers.



Shoe Cover Dispensers - Manual

AN90051

Operation: Manual

Material: Aluminium

Loading Capacity: 100 Covers

Dimensions: 470 x 260 x 170 MM (Approx.)



Vaccum Pickup Tool

AN90054

It is made of Conductive Material, suitable for clean room environments

Packing includes 4 no's(2 bent & 2 straight), 3

types(small, medium & large) suction heads

- Small suction head for items upto 3 grams

- Medium suction head for items upto 18 grams

- Large suction head for items upto 40 grams

Product quality is stable & highly reliable

Light & easy to carry design is made to handle Electronic Components, Metal & Plastic Parts and any items with smooth & nonporous surface.

Operation: Simply squeeze the vacuum bulb with your finger tips, place suction head on surface of part to be handled, then relax your squeeze, now the part is firmly gripped. Place the part precisely and a second squeeze will release the part.

Product Dimensions: 6" x 0.5" (L x D) approx.



ESD Shoe Covers with Conductive Strip

AN90052

Size: Universal

Material: Non-Woven

Color: Blue(Fabric) & Black(Strip)

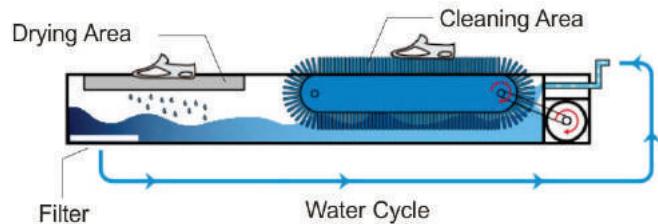
Surface Resistance: $10^6 \sim 10^9 \Omega$



Cleanroom Products



Sole Cleaning Machine AN90055



Sole cleaning machine is mainly used for cleaning the bottom of shoes, so as to keep unclean dusts away from the clean area.

It adopts the belt brush and circulating water cleaning mode. It can be used in many industries, such as electronics, pharmaceuticals industry, food processing, beverage processing, hospital lab, precision machinery, etc.

Machine Overall Dimensions : 18338x768x135

Cleaning Area Dimensions : 11x530

Drying Area Dimensions: 370x515

material of Drying Pad: PVA / PU Sponge

Overall Capacity : 400Kg

Weight : 90Kg

Water Tank Capacity : 38L

Weight : 90KG

Water Tank Capacity : 30L

Motor Power : 180W

Number of People Used <200



ESD Grid Curtains

AN90057

Material: PVC

Pattern: Grid

Thickness: 0.3 MM / 0.5 MM

Grid Surface Resistance: $10^6 - 10^9 \Omega$

Underlayer Resistance: $10^9 - 10^{11} \Omega$

Size: 1.37 M x 30 MM x 0.3 MM

Carbon lines are printed on the anti-static PVC Material, with excellent draping property.

Use full to protect ESD environment.

ESD Turnstile System

AN90056



Flap Barrier Turnstile
AN90063

Tripod Turnstile
AN90203

The ESD Access Turnstile System verifies the effectiveness of the ESD gear of an operator/wrist strap and foot wear with just a push of a button. Testing is completed in less than 2 seconds. Only upon passing this ESD testing, will the personnel be allowed entry into an ESD sensitive area.

The system mainly consists of turnstile + human body comprehensive tester + reader card (IC or ID card) + LCD display + Management software + Administrator host (company's existing computer).

According to different needs four individual clearances levels can be chose as below:

L1 VIP, free of test.

L2 IC Card + anti-static wrist strap

L3 IC Card+ anti-static shoes or heel strap

L4 IC Card + anti-static wrist strap +anti-static shoes or heel strap.

Specifications:

Test Range

for wrist strap : 0.75 - 20 Meg Ohms

for footwear: 0.75-100 Meg Ohms

Test Accuracy : $\pm 5\%$



Cleanroom Wipes



M3 Wipes

AN90058



Non-Woven Wipes

AN90061

Material: 100% Filament Rayon

Application: Use on sensitive electrical assemblies in cleanroom environments

Feature: Good absorbency and high liquid retention

Size Available: 250 x 250 MM (100 Pcs/Pack)

Material: 55% Cellulose & 45% Polyester

Weight: 56 GSM

Thickness: 28 MM

Absorbency: 245 ml/m²

Feature: Good absorbency with solvents

Sizes Available: 9" x 9" (300 Pcs/Pack)



Polyester Wipes

AN90059

Material: 100% Polyester

Edge Cutting: Laser Cutting

Application: Cleanroom wiping

Feature: Good Absorbency with solvents

Weight: 120 GSM

Sizes Available: 9" x 9" (150 Pcs/Pack).



SMT Stencil Cleaning Rolls

AN90062

Material: 55% Cellulose, 45% Polyester

Roll form, low particle, fiber release and high absorbency

Cleaning Rolls suitable for DEK, MPM, EKRA, YAMAHA,

PANASONIC, FUJI, etc are available.



Microfiber Wipes

AN90060

Material: 70% Polyester and 30% nylon composite fiber

Method: Single Knit, Double Knit

Edge Cutting: Laser Cutting

Application: Low cost wiper for optical glass industry

Feature: Good absorbency and good cleaning capability

Sizes Available: 9" x 9" (100 Pcs/Pack)



SMT Splice Tapes

AN90063

Sizes: 8, 12, 16 & 24 mm

Color: Yellow

Most economical splicing solution with accurate joining to increase efficiency



Antistatic Pink Bags

AN90064

Material: LDPE
 Color: Pink
 Static Dissipation: < 2 Seconds
 Surface Resistance: $10^8 \sim 10^{10} \Omega$
 Sizes: Various sizes are available. Please contact sales.
 Logo Printing is possible on request
 Zip locking type is optional



Transparent Static Shielding Bags

AN90067

Surface Resistance: $10^6 \sim 10^{10} \Omega$
 Metal Layer Resistance: $< 10^{10} \Omega$
 Metal Layer Optical Transmission: 40% - 70%
 Color: Silver
 Thickness: 2 – 4 Mil
 Static Shielding: 20 Volts
 Static Decay: < 0.03 Sec
 Sizes: Various sizes are available. Please contact sales.



ESD Bubble Bags

AN90065

Sizes: Various sizes are available. Please contact sales.
 Surface Resistance: $10^8 \sim 10^{10} \Omega$
 Press Seal Zipper type is also available on request.



Black Conductive Bags

AN90068

Surface Resistance: $10^8 \sim 10^{10} \Omega$
 Material: PE
 Density: 0.92 g/cm
 Water Absorption Rate: 0.5%
 Color: Black
 Static Dissipation: < 2 Sec
 Sizes: Various sizes are available. Please contact sales.



Moisture Barrier Bags

AN90066

Surface Resistance: $10^8 \sim 10^{10} \Omega$
 Hot Sealing Temperature: 250 – 375 F
 Seal: Heat Seal
 Color: Silver
 Time for Static removal: < 0.03 Sec
 Thickness: 2 – 4 Mil
 Sizes: Various sizes are available. Please contact sales.



ESD Grid Tapes

AN90069

Material: PE
 Width: 24 mm
 Length: 36 m
 Thickness: 0.06 mm
 Color: Transparent with black lines
 Pattern: Grid
 Static Discharge Time: 0.5 Sec
 Surface Resistance: $10^6 \sim 10^9 \Omega$



PCB Racks – I Type

AN90070



Vacuum Forming Trays

AN90074

No of Slots: 25

Unit Dimension: 480 x 140 x 35 mm

Surface Resistance: $10^6 \sim 10^{10} \Omega$

Thickness: as per customer requirement

Sizes: Various sizes are available. Please contact sales.

Color: Black as standard. Various colors are possible on request.



PCB Racks – L Type

AN90071



ESD Component Bins

AN90075

No of Slots: 30

Unit Dimension: 270 x 250 x 130 mm

Surface Resistance: $10^6 \sim 10^{10} \Omega$

Conductive Material

Surface Resistance: $10^6 \sim 10^{10} \Omega$

<Include sizes table>

Contact Sales for sizes available



Conductive Waste Bins

AN90072

External Dimensions	Code
95 X 105 50 MM	An90075 - 01
165 x 95 x 70 MM	An90075 - 02 ^
175 x 105 x 80 MM	AN90075 - 03 ^
200 x 130 x 90 MM	AN90075 - 04
235 x 155 x 120 MM	AN90075 - 05 ^
104 x 104 x 49 MM	AN90075 - 06
140 x 122 x 68 MM	AN90075 - 07 ^
180 x 121 x 79 MM	AN90075 - 08
253 x 155 x 125 MM	AN90075 - 09
352 x 201 x 143 MM	AN90075 - 10

Size: Dia 270 x H 250 mm

Surface Resistance: $10^6 \sim 10^{10} \Omega$



PU Corrugated Conductive Bins

AN90073

Thickness: 3 – 6 mm

Sizes: Various sizes are available. Please contact sales.

Surface Resistance: $10^6 \sim 10^{10} \Omega$

ESD Storage Solutions



ESD Conductive Trays

AN90076



PCB Magazine Racks

AN90078

Conductive Material

Surface Resistance: $10^6 \sim 10^{10} \Omega$

<Include sizes table>

Contact Sales for sizes available

External Dimensions	Code
450 x 300 x 60 MM	AN90076 - 01 ^
450 x 300 x 45 MM	AN90076 - 02
440 x 290 x 50MM	AN90076 - 03
375 x 250 x 65 MM	AN90076 - 04
440 x 295 x 80 MM	AN90076 - 05
560 x 375 x 80 MM	AN90076 - 06 ^
320 x 235 x 43 MM	AN90076 - 07
615 x 420 x 95 MM	AN90076 - 08
480 x 328 x 42 MM	AN90076 - 09



ESD Circulation Boxes

AN90077

Conductive Material

Surface Resistance: $10^6 \sim 10^{10} \Omega$

With cover also available for selected sizes

<Include sizes table>

Contact Sales for sizes available

With cover also available for selected sizes *

External Dimensions	Code
360 x 270 x 135 MM	AN90077 - 01 ^
580 x 368 x 200 MM	AN90077- 02
610 x 415 x 245 MM	AN90077 - 03
420 x 310 x 155 MM	AN90077 - 04
565 x 420 x 380 MM	AN90077 - 05
565 x 420 x 240 MM	AN90077 - 06 ^
620 x 425 x 320 MM	AN90077 - 07

Max PCB Storage: 50 No's

Base Material: Top & Bottom Metal

Magazine Size: Various sizes are available.

Please contact sales

PCB Size: 460 x (80 - 460) mm.

Width Adjustment: manual with Gear/Screw

Heat Resistance: 80°C/120°C/200°C

Surface Resistance: $10^6 \sim 10^{10} \Omega$

Side Slot Details:

- Depth: 3.5 mm

- Pitch: 10 mm

- Height: 5 mm

<Include sizes table>

Contact Sales for sizes available

External Dimensions	Code
355 x 315 x 580 MM PB/GA	AN90078 - 01
355 x 320 x 563 MM PB/GA	AN90078 - 02
355 x 320 x 563MM PB/SA	AN90078 - 03
355 x 320 x 563 MM PB/GA	AN90078 - 04
460 x 400 x 563 MM PB/GA	AN90078 - 05
460 x 400 x 563 MM PB/SA	AN90078 - 06
535 x 460 x 570 MM PB/GA	AN90078 - 07

* PB - Plastic Base

* MB - Metal Base

* GA - Gear Adjustment

* SA - Screw Adjustment



Chorme Plated Wire Shelving

AN90079



Dimensions: 1215 x 457 x 1500 mm (L x W x H)

Base Material: Chrome plated stainless steel

Each Shelf load capacity: 75 Kgs

Shelf height adjustment: 1" increment

4" ESD Castors - 04 Pcs (2 with locking & 2 without locking)

Conductive chain will be supplied for additional grounding

Useful to store bare pcs, smt reels, components, etc.,

Surface resistance: $10^6 \sim 10^9 \Omega$

Customization with Flat Shelves / Single Peak Shelves /

Double Peak Shelves is possible as per customer requirement.

Please contact sales for different combinations

Stainless Steel PCB Storage Trolley

AN90081



Material Stainless Steel

Storage: Three Columns @ 150/225/300 MM

Each column can accommodate upto 100 bare pcbs

Slot Pitch: 18 mm

Slot Depth: 5 mm

Columns width adjustment is possible with locking knobs

High quality stainless steel material is used for vertical columns

4 Conductive Castors(2 Pcs with break & 2 Pcs without break) will be supplied as standard

Conductive chain will be supplied for additional grounding

Surface Resistance: $10^6 \sim 10^9 \Omega$

Overall Dimensions: 900 x 550 x 1300 MM



PCB Storage Trolley

AN90080

Conductive Racks with 460 mm length

Storage: Three Columns @ 200/300/400 MM

Each column can accommodate upto 100 bare pcbs

Slot Pitch: 6 mm

Slot Depth: 5 mm

Columns width adjustment is possible with locking knobs

High quality conductive material is used for vertical columns

4 Conductive Castors(2 Pcs with break & 2 Pcs without break) will be supplied as standard

Conductive chain will be supplied for additional grounding

Surface Resistance: $10^6 \sim 10^9 \Omega$

Overall Dimensions: 900 x 550 x 1300 MM



PCB Storage Trolley with Hanging Racks

AN90082

Stainless Steel Frame

8 No's L Type Conductive Racks will be fixed on both sides

L Type Rack Specifications:

- Size: 412 x 280 x 160 mm
- 38 slots/L Type Rack
- Slot Depth: 5 mm
- Slot Width: 3 mm
- Slot Pitch: 6 mm

High quality conductive material is used for vertical columns

4 Conductive Castors(2 Pcs with break & 2 Pcs without break) will be supplied as standard

Conductive chain will be supplied for additional grounding

Surface Resistance: $10^6 \sim 10^9 \Omega$

Overall Dimensions: 900 x 550-600 x 1400 MM

ESD Testers



Wrist Strap Testers

AN90083

Portable wrist strap tester equipped with 9 volts battery
This is a 3-state touch tester designed for fast, accurate and frequent testing of personal grounding device
Easy to operate
Range: wrist strap 0.75 to 10 Meg Ohm
Indications: OK – Green LED
High – Yellow LED
Low – Red LED
Operation: By gently pressing metal sensor plate
Accuracy: $\pm 10\%$
Power Supply: 9 Volts Battery
Low Battery indication is standard feature
Calibration: Recommended for every 12 months



Surface Resistance Test Kit

AN90085

Using two pieces of standard 5-pound weight
Dual test voltage: 10V or 100V
Designed in accordance with ESD S4.1, ANSI ESD7.1, and ANSI EOS/ESD S11.11 test measurement procedures
Portable and suitable for field technicians
Specifications:
Measurement range: $10^3 \sim 10^{11} \Omega$ @10V, $10^6 \sim 10^{12} \Omega$ @100V.
Precision: $\pm 10\%$
Power supply: 9V dry cell, 12V stable power adapter
Dimensions: 98 x 186 x 28mm
Meter weight: 0.3Kg
Complete kit weight: 6.8Kg



Surface Resistance Meter

AN90084

It is a ultra wide-range, battery operated, portable instrument for measuring surface resistance by using recommended parallel bar sensing probe.
Surface resistance is conveniently indicated by a row of LEDs covering a total 10 decades from $10^3 \sim 10^{12} \Omega$
Dimensions: 137 x 76 x 30 mm
Weight: 120 Gms
Accuracy: $\pm 1/2$ Decades
Accuracy: $\pm 10\%$



Megohm Meter

AN90086

Measures resistivity, temperature and humidity.
As humidity and temperature affect resistivity, they must be measured.
High quality, high precision and high reliability.
Specifications:
Dual test voltage: 10V or 100V
Resistivity range: $10^3 \sim 10^{12}$ /square
Resistance range: $10^3 \sim 10^{12} \Omega$
Relative humidity: 10% - 90%RH
Temperature: 0°C-37.7°C (32°F-100°F)
Probes included: 2 pieces of 5-pound weight, 2.5" RTT, RTG disk probes, two 3" parallel surface resistivity probes

Inspection Systems



Magnifier Round LED Table Fix

AN90087

Super Slim Magnifying Lamp

Lens Size: 6.7 inch (Dia.170mm)

Lens Material: glass

Diopter: 3D or 5D

Light Source: 56 LED SMD 3528

90V ~ 240V, 50 ~ 60Hz, broadly adopted

With removable lens cover

Color: White



Magnifier Square LED Table Fix

AN90088

Square Magnifying Lamp

Lens Size: 7.5 x 6.2 inch

Lens Material: glass

Diopter: 3D/5D/8D

Light Source: 62 LED SMD 3528

90V~240V, 50~60Hz, broadly adopted

With removable lens cover

Color: White



Magnifier LED Table Top

AN90089

Lens Size: 3.5 inch

Lens Material: glass

Diopter: 3D

Light Source: 18 LED SMD 5050

90V ~ 240V, 50 ~ 60Hz, broadly adopted

With removable lens cover

Color: White



Digital Microscope

AN90090

Ample working distance: 4 CM - 15 CM

Reasonable depth of field: no matter how complicated the structure of object is, our microscope makes it clear

Exclusive Lens: Reduce Veiling glare and prevent from harm of smudging which produced in the process of soldering

Real time imagery, no smear

300 times magnification, 1920 x 1080P, 30 fps, HDMI out and high quality non-interpolate large CMOS sensor

Digital Zoom: 4X

Metal stand, sturdy and durable, demonstrates quality

Supply USB 2.0, HDMI HD Video, LCD 3.0 (effect of HDMI export is amazing)

Bring dual lights own, reduce inverted image

Software is compatible in windows 7 & 8, no drives are required

Parameters:

Image Sensor: 3 MP

Video Output: 1080P Full HD

Video Format: MOV

Photo Format: JPEG

Focus Range: Manual focus from 10 mm to 150 mm

Frame Rate: Max 30 f/s under 600 Lus Brightness

Magnification Ratio: 10x to 300x

Video Output Interface: HDMI, to 1080P Monitor with HDMI-In

Storage: Micro SD Card, upto 32GB (Not include memory)

Power Source: 5V DC



Dual Footwear / Wrist Strap Tester

AN90091

Dual Footwear / Wrist Strap Tester is a 3-state touch tester designed for fast, frequent testing of personnel grounding device.

Fast testing separately for wrist straps and grounder test units. Easy to operate.

Contact sales for more details

Fume Extractors



F6001

AN90092



F6002

AN90093

Features :

- Metal body structure, strong and durable
- Noise reduction design, quiet operation.
- Trip-filter design ensures thorough purification
- High-quality alloy fan achieves great suction power.

Model	F6001	F6002
Voltage	110V / 220V	110V / 220V
Power	80W	200W
Ducts	1	2
Systemic Flow	235m ³ /h	2 x 150m ³ /h
Air Velocity	17m/x	2x11m/s
Filtering Efficiency	0.3um 99.97%	0.3um 99.97
Length of Duct	75mm x 1.4m	075mmx1.4mm
Noise	<52dB	<52dB
Dimensions(mm)	425 x 250 x 410	425x250x410
Weight	14kg	14.5kg

Features :

- With the intelligent control panel and digital display, operation becomes easy and simple
- With the remote control, you can control the machine from a distance
- Truly sensitive and effective Filter Clogging Alarm System reminds you to replace the filter in time.
- Wheels make the movement easy and flexible.

Model	F6001D	F6002D
Voltage	110V / 220V	110V / 220V
Power	80W	200W
Ducts	1	2
Systemic Flow	235m ³ /h	2 x 150m ³ /h
Air Velocity	17m/x	2x11m/s
Filtering Efficiency	0.3um 99.97%	0.3um 99.97
Length of Duct	75mm x 1.4m	075mmx1.4mm
Noise	<52dB	<52dB
Dimensions(mm)	425 x 250 x 410	425x250x410
Weight	14kg	14.5kg



F6001D
AN90094



F6002D
AN90095

Fume Extractors



F3000D

AN90096

F5000D

AN90097

F6000D

AN90098

Features

Metal body structure, strong and durable with digital display and remote control. Noise reduction design achieves quiet operation. Multiple-filter design ensures thorough purification. High-quality alloy fan achieves great suction power. With the observation window, you can monitor the dust accumulation status.

Applications:

Dust and powder collection

SMT automatic machines

Electronic soldering, reflowing soldering, wave soldering

Laser cutting, Laser engraving, Electric welding, argon arc welding, plasma cutting

Model

F3000D

F5000D

F6000D

Voltage

110V / 220V

110V / 220V

110V / 220V

Power

350W

450W

700W

Systemic Flow

435m³/h

500m³/h

620m³/h

Filtering Efficiency

0.3um 99.97%

0.3um 99.97

0.3um 99.97

Noise

<65dB

<70dB

<75dB

Dimensions(mm)

550 x 415 x 920

550x415x920

550x415x130

Weight

52.5kg

60kg

75KG



Fume Extractors



ESD Smoke
Absorber

AN90099



Smoke Absorber
Replacement Filter

AN90100

Efficient & quick elimination of toxic gasses
Fan with low noise, strong suction & exhaustion
Easy to replace the activated carbon filter.
With extra 2 pcbs of replacement carbon filter
Flexible usage due to light weight (1.5 Kg Approx.)
Adjustable absorbable angle
Dimensions: 220 x 270 x 170 mm (Approx.)

Filter consisting of foam & activated carbon
Ideal for absorbing toxins

Tweezers

Conductive Plastic Tweezers

AN90101



Stainless Steel Tweezers

AN90102



Soldering Tips



Apollo Seiko

Robotic Soldering Tips
AN90103-01



JBC

C245 Series Soldering Cartridges
AN90103-02



Weller

LT Series Soldering Tips
AN90103-03



Hakko

900M & T18 Series Soldering Tips
AN90103-04



Hakko

T12 Series Soldering Tips
AN90103-05



OKI Metcal

Soldering Cartridges
AN90103-06



Japan Unix

Robotic Soldering Tips
AN90103-07



Quick

200 & 500 Series Soldering Tips
AN90103-08

Thermometers



Thermometer - 191

AN90104

Clear LCD Indication

Sensors are easy to be replaced

Wide testing temperature range of 0°C-600°C

Test the temperature of soldering iron precisely and quickly



Thermometer - 191A

AN90105

Wide testing temperature range of 0°C-600°C

2-in-1 design for measurement of temperature of the solder pot and other surface

Robotic Soldering, Robotic Glue Dispensing



Robotic Soldering

AN90106



Features :

Applicable for different products, soldering temperature can be set freely.

The soldering iron unit can be multi-directionally adjusted, which can protect the PCB and components from damage. Numerically controlled temperature (static air conditions: $\pm 1^\circ\text{C}$)

With the handheld LCD Teaching Pendant, the programming is simple and easy to learn.

In the soldering process, the solder tip has rapid heat recovery and a long life span.

Model	S513
Heating Power	150W
Input Voltage	AC 110V / 220V
Output Voltage	DC24V
Solder Wire Diameter	0.5,0.6,0.8,1.0,1.2(mm)
Preheating Temperature Range	0°-500°C
Axis	4
Operating Range (X * Y*Z)	400 x 400 x100mm
Dimension (L*D*H)	720 x 700 x 810mm
Weight	about 66kg

Features :

Replace the human labor and save labor cost.

Simple and convenient operation, high speed and precise control

Realize the precise dispensing by the high-precision motor

High performance liner structure platform with nice appearance.

Model

	DJ-200P
Drive Mode	3-Axis precision step motor
Operating Range	200mmx200mmx8mm (X'Y'Z)
Movement Speed	X*Y Axis : 0.1-600mm/sec Z Axis : 0.1 400mm/sec
Repeatability Accuracy	$\pm 0.02\text{mm}$ (X'Y'Z)
Minimum analysis	0.01mm (X'Y'Z)
Maximum Load Weight	8kgs (for work platform)
Program Capacity	Max. 255 programs
Operating Temperature	10°C 40°C
Operating Humidity	20 - 90%
External Dimensions	380 x 440 x 630mm
Weight	about 31 kgs

Robotic Glue Dispensing

AN90107



Solder Paste Mixer, SMD Counter & PCB Seperator



Solder Paste Mixer

AN90108



Features :

Triple safety design ensures personal safty door lock, proximity switch and electromagnet.

Only need to keep clean, no need for other maintenance, stable running with low nosie.

LED digital display, light and buzzer warning, simple and clean

Dimensions 420W x 420D x 427H mm

Motor Power 60W

Revolution Speed 600-1350 RPM / Min

Rotation Speed 105 RPM/min

Mixing Method forced mixing

Time Setting 0.1-9.9Mins

Mixing Capacity 2pcs solder paste tank (500g)

Weight 32Kg

Features :

Fully automatic way to count SMD components, high precision without error counting.

Countable in both forward and reverse directions, with double check function.

Easy to operate, unique pocket falling-proof design minimizes the damage to the SMD carrier.

Suitable for all kinds of SMD reels.

Power Source Universal voltage

AC110-220V, 50Hz, 40W

Counting Scope -99999-999999 PCS

Dimensions 350L X 774W X 184H mm

Weight 10Kg

SMD Counter

AN90109



PCB Separator

AN90110



Features :

With triple protection devices, safe and reliable

The adoption of 48V DC motor makes the cutting process more quiet and energy saving

The patented device of lower blade adjustment ensures more convenient blade replacement and heigh precision.

Imported trail ensures the cutting precision to be within 0.04mm.

Model

ST-601BB

Power Supply 110V / 220V AC 60Hz / 50Hz

Maximum Cutting 460mm

Cutting Speed Setting 300mm, 400mm/S, 500mm/S, 600mm/S

PCB Thickness 0.6mm - 2.5mm

Dimensions L755 x W520 x H455 (mm)

Weight 56 Kg

Ultrasonic Cleaners



GT Sonic is a leading manufacturer and exporter of high quality ultrasonic cleaning equipment's for world-wide customers. With a very efficient R&D and manufacturing teams, GT Sonic is proofing in developing and building reliable ultrasonic cleaners for today's market. With major market share in Europe, North & South America, Asia and Oceania, GT Sonic is recognized as one of the best expert in Ultrasonic Cleaning Technology.

Today, with its wide product range, GT Sonic is catering Aerospace, Marine, Dental, Medical, Electronic, Jewellery, Optical and Repair industries successfully. All of its products are made of SUS304Stainless Steel 2 mm body as standard and endowed with high-performance industrial grade transducer with a frequency up to 40 kHz, moisture-proofed control cards, advanced generator, sweep frequency for better effect. GT Sonic is fit to fulfill variety of customer requirements with extensive tank capacity up to 1 to 288 litres. Customization is also possible according to customer requirement.

GT Sonic brand guarantees the high standards of quality and workmanship.

ST 13/36 Industrial Cleaner

AN90111 - 112

Ultrasonic power:0-100% adjustable.

Time setting:0-30min or 24 hours continuous working.

Heating:20-80 °C.

Ultrasonic frequency: 28kHz or 40kHz.

Material: 2mm thickness SUS304 tank for acid-proof.

Improved PCB design for stable and durable industrial use.

More strong and uniform ultrasonic wave.

With free lid and stainless steel SUS304 basket.



Specifications

Item No	Tank size LxWxH(mm)	Unit Size LxWxH(mm)	Volume (L)	Ultrasonic Power (W)	Ultrasonic Frequency (kHz)	Heating Power (W)	Heating Temperature (°C)
GT SONIC ST13A/B	300*240*180	400*360*450	(L)	300	28 & 40	500	20 - 80
GT SONIC ST36/A/B	5109300*250	570*360*45.0	13	600	28 & 40	800	20-80

Applications

Aerospace, Marine, Dental, Medical, Electronics, Jewellery, Optical and Repair industries



Ultrasonic Cleaners

ST Series Industrial Grade Ultrasonic Cleaner

AN90113-118

Ultrasonic power: 0-100% adjustable.

Time setting: 0-60min or untimed.

Heating: 30-100 .

Ultrasonic frequency: 28kHz or 40kHz.

Whole machine made of SUS304 stainless steel,
2mm thickness tank for acid-proof, anti-corrosive.

Industrial grade ultrasonic transducer, moisture-proofed PCB.

Advanced generator, sweep frequency, high quality, better effect.

Locking wheels supplied for stability.

With free lid and stainless steel SUS304 basket.

Customized according to customer's request.



Specifications

Item No	Tank size LxWxH(mm)	Unit Size LxWxH(mm)	Volume (L)	Ultrasonic Power (W)	Ultrasonic Frequency (kHz)	Heating Power (W)	Timer (min)	Timer (°C)
ST53A/B (AN900113)	550*350*300	645*496*615	53	900		2000		
ST77A/B (AN900114)	550x400x350	687x540x610	77	1200		3000		
ST105A/B (AN900115)	600x500x350	745x645x665	105	1500	28/40KHZ	4000	0-60	30-110
ST144A/B (AN900116)	600x600x400	745x745x715	144	1800		5000	min	(°C)
ST189A/B (AN900117)	700x600x450	845x745x765	189	2400		6000		
ST288A/B (AN900118)	800x600x600	942x745x915	288	3000		7000		



Soldering Robot



Double Sided PCBs

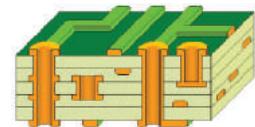
AN90119

PCB Thickness: 0.4 – 3.2 MM
Base Material: FR4 (Low & High Tg), Rogers, etc.,
Board Thickness Tolerance: ±10%
Minimum Line Width / Spacing: 4 / 4 Mil
Minimum Finished Hole Size: 0.2 MM
Finished Hole Size Tolerance: 0.075 MM
Non PTH Hole Size Tolerance: 0.05 MM
Hole Position Tolerance: 0.075 MM
Outer Minimum Annual Ring: ≥ 4 Mil
Copper Thickness: 0.5 – 4.0 Oz
Maximum Panel Size: 470 x 550 MM
Board Size Tolerance (Edge to Edge): 0.1 MM
Solder Mask Color: Green, Red, Yellow, White, etc.,
Surface Finish: HASL, Leadfree HASL, ENIG, OSP, Tin, Hard Gold
Gold Fingers: Possible

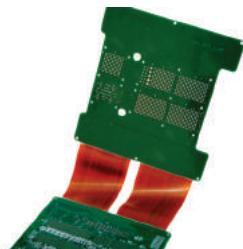


Multi Layer PCBs

AN90120



Maximum No. of Layers: 18 Layers
PCB Thickness: 0.4 – 3.2 MM
Base Material: FR4 (Low & High Tg), Rogers, Metal Clad, etc.,
Board Thickness Tolerance: ±10%
Minimum Line Width / Spacing: 4 / 4 Mil
Minimum Finished Hole Size: 0.2 MM
Finished Hole Size Tolerance: 0.075 MM
Non PTH Hole Size Tolerance: 0.05 MM
Hole Position Tolerance: 0.075 MM
Outer Minimum Annual Ring: ≥ 4 Mil
Hole Wall Copper Thickness: ≥ 20 µm
Copper Thickness: 0.5 – 4.0 Oz
Maximum Panel Size: 470 x 550 MM
Board Size Tolerance (Edge to Edge): 0.1 MM
Solder Mask Color: Green, Red, Yellow, White, etc.,
Surface Finish: HASL, Lead free HASL, ENIG, OSP, Tin, Hard Gold
Gold Fingers: Possible



Flexi Rigid PCBs

AN90121

Maximum Rigid Layer Count: 10 Layers
Maximum Flex Layer Count: 6 Layers
Base Material: FR4 (High & Low Tg), Rogers, Polyamide, Polyester
Cover Lay: Possible
Solder Mask Color: Green, Red, Yellow, White, etc.,
Surface Finish: HASL, Lead free HASL, ENIG, OSP, Tin, Hard Gold
Maximum Board Size: 350 x 350 MM
Minimum Line Width / Spacing: 4 / 4 Mil
Minimum Finished Hole Size: 0.2 MM



Flexi PCBs

AN90122

Maximum Flex Layer Count: 6 Layers
Base Material: Polyamide, Polyester
Cover Lay: Possible
Solder Mask Color: Green, Red, Yellow, White, etc.,
Surface Finish: HASL, Lead free HASL, ENIG, OSP
Maximum Circuit Size: 350 x 350 MM
Circuit Thickness: 0.12 to 0.76 MM
Minimum Line Width / Spacing: 4 / 4 Mil



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