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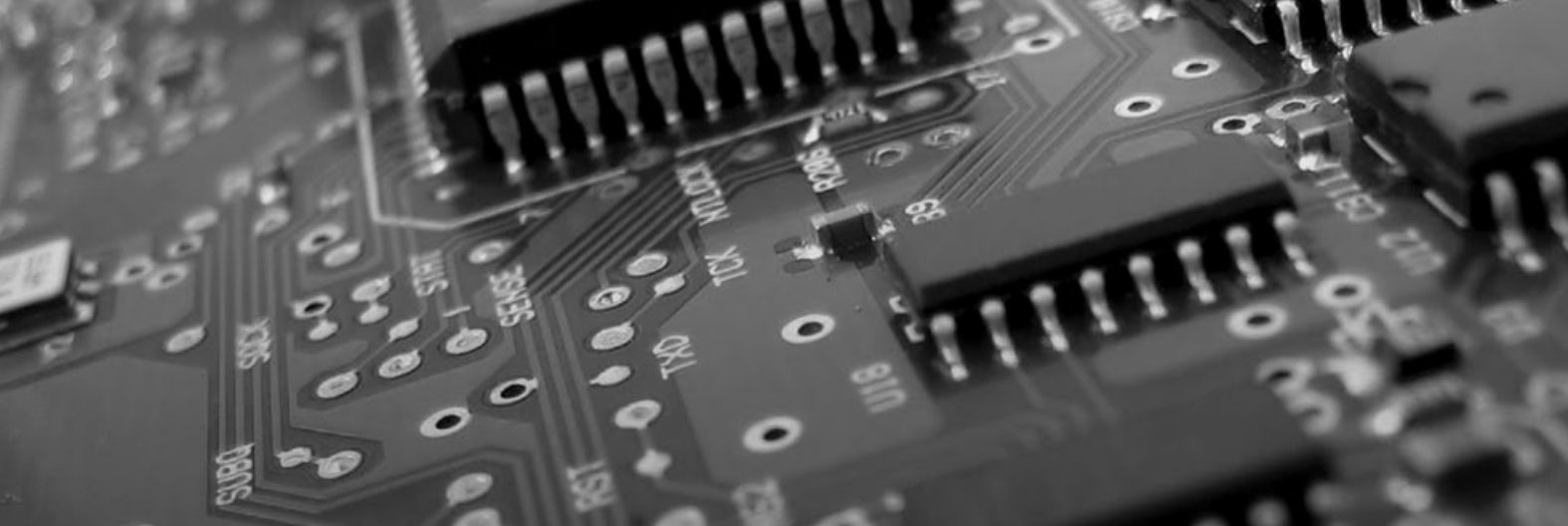
## HANDLING & STORAGE

Virtually all semiconductor devices are subject to damage by an electrostatic discharge (ESD) event. While some can withstand tens of thousand of volts before damage, some can be damaged by less than 200 volts. To avoid this, it is important that proper precautions and handling procedures be understood and followed.

Antistat can provide a wide variety of handling and storage products; from conductive storage bins, through PCB racks, and conductive brushes. If you cannot find what you are looking for within this brochure then please get in touch with one of our trained sales advisors.



**+44 (0) 1473 836 200**



### ESD Handling & Storage

A protected work area must be provided wherever ESD sensitive parts, assemblies and equipment are handled. This protected area must be constructed, equipped and maintained with the necessary ESD protective materials and equipment to insure that voltages are below the sensitivity level of the most ESD sensitive item handled in the work place.

### Black Conductive Storage Bin Individuals

SSI Schaefer 14/7 Conductive Storage Bins are available from Antistat, in a comprehensive range of sizes. These bins provide a versatile and economical method for storage and handling.

With their semi-open front storage design the 14/7 Series are extremely sturdy and robust. They can be integrated easily into all shelving systems. The complementary sizes enable them to be used in any combination within shelf units, independent from the application.



CONDUCTIVE POLYPROPYLENE (PPL):	PPL:
Specific Volume Resistance	10 <sup>3</sup> Ω x cm
Specific Surface Resistance	10 <sup>4</sup> Ω

- Polypropylene – resistant to most oils, acids and alkalis, noise absorbent on conveyors, with stands temperatures between -20° and +100° Celsius
- Smooth internal walls for easy cleaning
- Recessed handgrip on the back panel for secure manual transport
- Flexible due to divider options
- Stackable lugs for secure stacking

PRODUCT CODE:	DESCRIPTION:	SIZE (MM):	CAPACITY (LITRES):	ADDITIONAL NOTES:
025-0140	Black Conductive Storage Bin	63 x 91 x 43	0.26	Each
025-0141	Black Conductive Storage Bin	133 x 88 66	0.80	Each
025-0142	Black Conductive Storage Bin	191 x 125 x 109	2.6	Each
025-0143	Black Conductive Storage Bin	291 x 182 x 132	7.2	Each
025-0144	Black Conductive Storage Bin	292 x 430 x 129	17.0	Each
025-0145	Black Conductive Storage Bin	291 x 181 x 185	10.0	Each
025-0146	Black Conductive Storage Bin	442 x 280 x 183	23.0	Each

### Black Conductive Storage Bin Sets

#### FEATURES:

- Electro conductive storage containers for the safe storage of static sensitive components.
- Injection moulded with anti-static additive and non-fade ultra violet stabiliser
- Strong, heavy duty with reinforced base, sides and stacking rim
- Durable, resistant to most industry solvents and can withstand high temperatures
- Clean and smooth inside faces guard against build up of grease
- Designed to Ministry of Defence specification 59/98 and BS EN 100015



PRODUCT CODE:	DESCRIPTION:	SIZE (MM):	ADDITIONAL NOTES:
025-0009	Black Conductive Storage Bin (Plastic)	90 x 100 x 50	Carton of 20
025-0010	Black Conductive Storage Bin (Plastic)	165 x 100 x 75	Carton of 20
025-0011	Black Conductive Storage Bin (Plastic)	240 x 150 x 125	Carton of 10
025-0058	Black Conductive Storage Bin (Plastic)	355 x 200 x 125	Carton of 10
025-0060	Black Conductive Storage Bin (Plastic)	355 x 200 x 175	Carton of 10
025-0059	Black Conductive Storage Bin (Plastic)	381 x 420 x 175	Carton of 5

### Conductive Picking Bin Individuals

#### FEATURES:

- Double wall construction
- Reuseable & stackable
- Secure positive, integral double latches
- Permanently anti static / ESD protection



PRODUCT CODE:	DESCRIPTION:	SIZE (MM):	ADDITIONAL NOTES:
025-0080	Black Conductive Storage Bin	108 x 101.6 x 38.1	Each
025-0081	Black Conductive Storage Bin	108 x 127 x 63.5	Each
025-0082	Black Conductive Storage Bin	108 x 165.1 x 82.6	Each
025-0083	Black Conductive Storage Bin	108 x 222.3 x 133.4	Each

### Small Conductive Box

#### FEATURES:

- Black conductive polypropylene box with hinged lid
- 76 x 55 x 18mm (external dims)
- Supplied empty

These boxes are made of conductive polypropylene with a surface resistivity of approximately 5 x 10<sup>3</sup> Ω per square and a volume resistivity of about 10<sup>4</sup> Ω cm providing an excellent shield against electrostatic fields as defined in IEC 61340-5. They are suitable for primary packaging of electrostatic sensitive devices that do not have a built-in power source.



PRODUCT CODE:	DESCRIPTION:	SIZE (MM):	ADDITIONAL NOTES:
025-0045	Small Conductive Box	76 x 55 x 18	Each



**Conductive Cases – Blow Moulded**

**FEATURES:**

- Easy part identification without compromise of Faraday Cage protection
- Clear conductive window (Special order styles only)
- Grounding snap – Reduces surface charges so the case can be safely opened without damaging contents
- Antistatic or conductive foam available on request (quoted separately / foam is glued into case)



PRODUCT CODE:	DESCRIPTION:	SIZE (MM):	ADDITIONAL NOTES:
025-0130	Conductive Case	134.9 x 69.9 Base / 66.7 x 25.4 Lid	Each
025-0131	Conductive Case	171.5 Base, 165.1 Lid x 168.3 Base, 120.7 Lid x 30.2	Each
025-0132	Conductive Case	227 Base, 230.2 Lid x 168.3 Base, 165.1 Lid x 31.8	Each

**Conductive PCB Rack**

**FEATURES:**

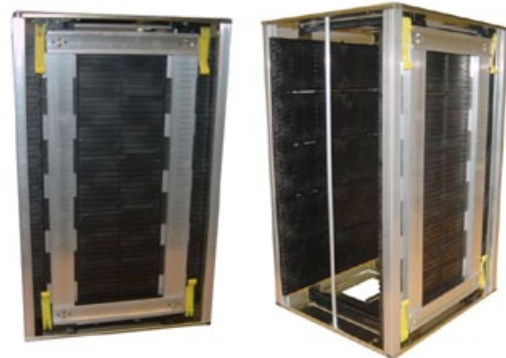
- Moulded from conductive polypropylene
- Surface resistance  $10^3$ – $10^5 \Omega$
- Conforms to IEC 61340-5-1
- Ideal for the transportation of PCB's



PRODUCT CODE:	DESCRIPTION:	SIZE (MM):	ADDITIONAL NOTES:
025-0111	Conductive PCB Rack	265 x 205 x 95	25 slots

**SMT Magazine Rack**

- SMT magazine racks are designed for the manufacture, assembly, storage and transfer of PCB
- Gear adjustment
- Common type (60°C) and heat resistant type (120°C, 160–200°C) are available
- Surface resistance:  $10^4$  –  $10^6 \Omega$



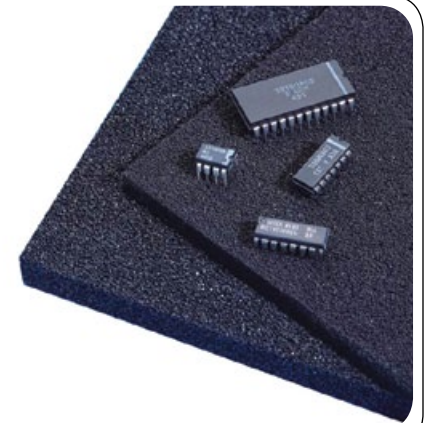
PRODUCT CODE:	DESCRIPTION:	DIMENSIONS (L x W x H) (MM):	ADDITIONAL NOTES:
025-0400	SMT Magazine Rack	355 x 320 x 563	Each

**Conductive Foam**

**FEATURES:**

- Carbon impregnated conductive polyurethane foam
- Non corrosive
- Ideal for cushioning product in transit
- Custom sizes cut to order
- Low density foam is ideal for cushioning product in transit
- High density foam offers excellent pin insertion properties

Antistat can assist and advise on a vast range of cross linked closed cell foams for specialist applications please contact a member of our experienced sales team on +44 (0) 1473 836 200.



**TECHNICAL SPECIFICATION:**

PROPERTY:	TEST METHOD:	REQUIREMENT: LOW DENSITY	REQUIREMENT: HIGH DENSITY
Foam Type	N/A	Polyether polyurethane foam impregnated with flexible conductive latex	Polyether polyurethane foam impregnated with rigid conductive latex
Density (kg/m <sup>3</sup> )	BS 4443 Pt1 Method 2	24 minimum	33 – 55
Tensile Strength (KPa)	BS 4443 Pt1 Method 3A	70 minimum	70 minimum
Elongation @ Break (%)	BS 4443 Pt1 Method 3A	100 minimum	N/A
Loss in Tensile Strength After Heat Ageing (%)	BS 4443 Pt1 Method 3A 140°C for 16 hours	30% Max Loss	30% Max Loss
Loss in Tensile Strength After Humidity Ageing (%)	BS 4443 Pt1 Method 3A 105°C for 3 hours	30% Max Loss	30% Max Loss
Compression Set (50% Compression)	BS 4443 Pt1 Method 3A	30% Max Loss	N/A
Volume Resistivity ( $\Omega$ /m)	BS 2044 Pt1 Method 3 (100V)	250 maximum	250 maximum
Surface Resistivity (K $\Omega$ )	Megger BM201 (100V)	<20	<10
Compression Deflection at 50% Compression	BS 4443 Pt1 Method 5A	3.3 KPa (Typical Value)	-

PRODUCT CODE:	DESCRIPTION:	SIZE (L x W x D) (MM):	ADDITIONAL NOTES:
039-0050	Low Density Conductive Foam	305 x 305 x 6	Black – Min 100 units
039-0037	Low Density Conductive Foam	1000 x 1000 x 6	Black – Min 100 units
038-0016	High Density Conductive Foam	305 x 305 x 6	Black – Min 100 units
038-0002	High Density Conductive Foam	1000 x 1000 x 6	Black – Min 100 units





**Document Wallets**

**FEATURES:**

- Document wallets made from static dissipative polyethylene film
- Complies with EN 61340-5-1
- Amine free
- Heat sealable
- Transparent
- Recyclable

**NOTES:** The Rs value is guaranteed for up to 3 years under normal use and storage conditions.

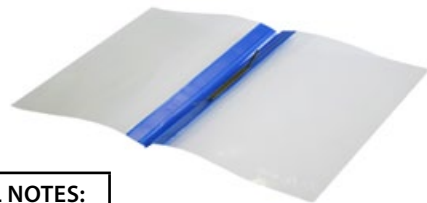


PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
105-0007	ESD Document Wallets	A4	Pack of 100
105-0017	ESD Document Wallets	A3	Pack of 100

**Antistatic Clear A4 Binder**

**FEATURES:**

- A4 portrait format binder, transparent cover and back with blue spine
- Permanent static dissipative PVC
- Stamped with the ESD Symbol



PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
105-0005	Antistatic Clear A4 Binder	A4	Each

**Antistatic Ring Binder**

**FEATURES:**

- A4 portrait format
- Antistatic blue PVC covering



PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
105-0021	Antistatic Ring Binder	A4	4 x 25mm rings
105-0025	Antistatic Ring Binder	A4	4 x 50mm rings

**Laminating Sheets**

**FEATURES:**

- Our ESD laminating sheets will work with any standard document laminating system found from any office supply stores
- Made from PET / EVA
- 80 micron thickness
- Grammage of 95gram/m<sup>2</sup>
- Elongation: MD161% / TD120



PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
105-0094	ESD Laminating Sheets	A4	Pack of 100

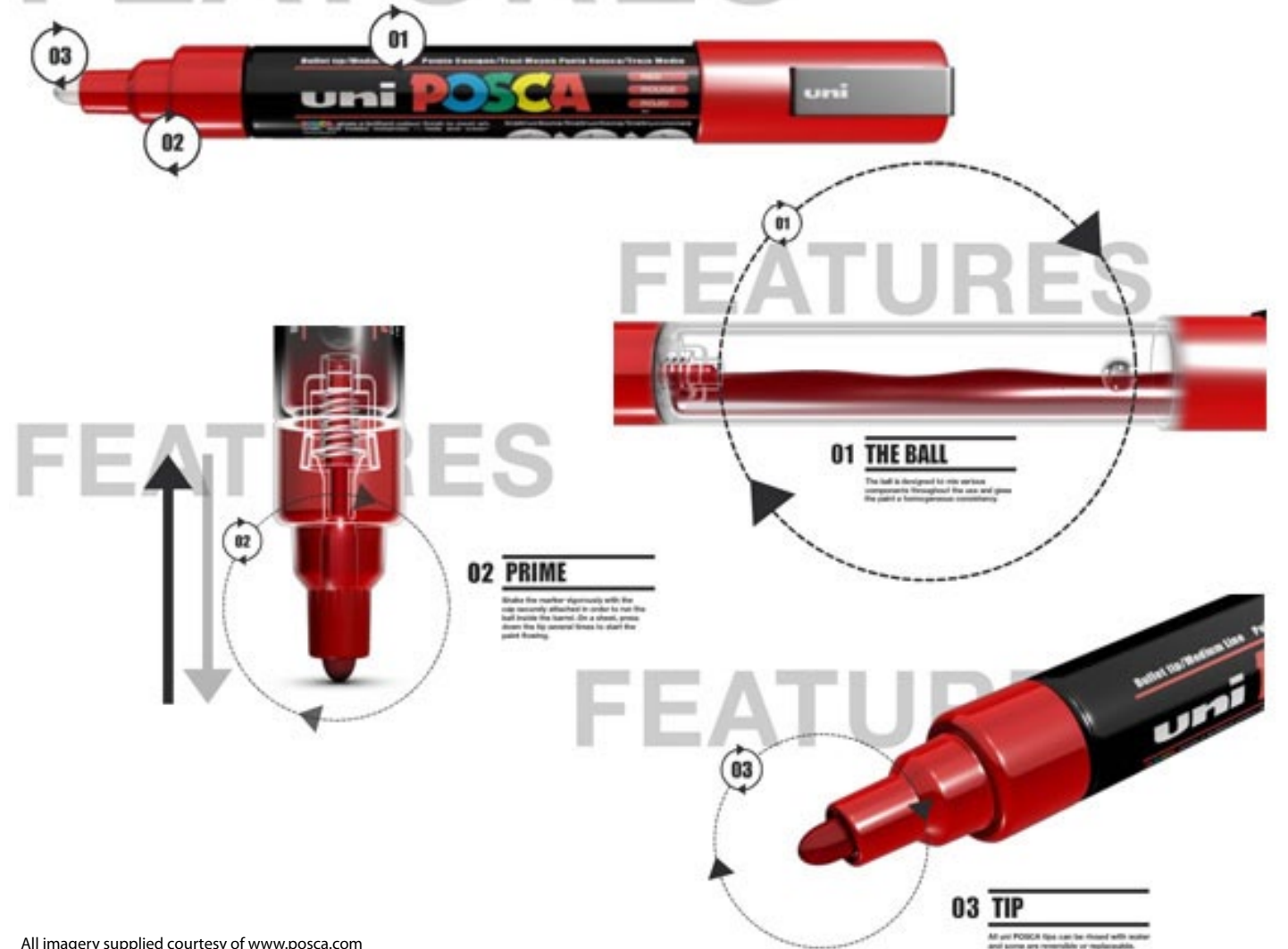
**Posca Pens**

Posca Pens provide a unique water based pigment ink with fade and waterproof performance, ideal for marking components and boards.

**FEATURES:**

- With 2+ years shelf life and RoHS compliant
- Writes for more than 250m
- Removable tip which can be rinsed with water
- Replaceable tips for prolonged life of the marker

POSCA  
POSCA FEATURES  
FEATURES



All imagery supplied courtesy of [www.posca.com](http://www.posca.com)



**Posca Pens – PC3M Range**

Posca PC3M, the poster colour marker, has a unique water-based pigment ink which is usable on most surfaces. You won't find the same fade-proof/waterproof performance with other water-based ink markers.

**FEATURES:**

**BARREL AND CAP**

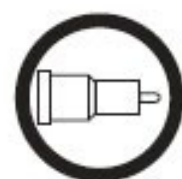
- Weight (gm) 14.4
- Barrel / Cap Material PP
- Clip Material ABS
- Diameter 17.9mm
- Length 142.8mm

**NIB**

- Material Polyester
- Shape Bullet shaped

**INK AND INK RESERVOIR**

- Ink Content (gm) 3.4ml
- Ink Type Water-based Pigment Ink
- Writing Distance (m) Writes more than 250m
- Shelf Life Exceeds 2 years



**1,5 mm**  
FINE BULLET  
POLYESTER TIP

**REFILL TIPS:**  
Reference PCR-3, set of 3.



PRODUCT CODE:	DESCRIPTION:	LINE WIDTH (MM):	ADDITIONAL NOTES:
105-0071	Posca Pen PC3M White	0.9 – 1.3	Each
105-0072	Posca Pen PC3M Pink	0.9 – 1.3	Each
105-0077	Posca Pen PC3M Violet	0.9 – 1.3	Each
105-0078	Posca Pen PC3M Light Blue	0.9 – 1.3	Each
105-0089	Posca Pen PC3M Blue	0.9 – 1.3	Each
105-0090	Posca Pen PC3M Green	0.9 – 1.3	Each
105-0091	Posca Pen PC3M Yellow	0.9 – 1.3	Each
105-0092	Posca Pen PC3M Orange	0.9 – 1.3	Each
105-0104	Posca Pen PC3M Red	0.9 – 1.3	Each
105-0105	Posca Pen PC3M Black	0.9 – 1.3	Each

27 colours available upon request (MOQ's may apply on non stock product colours).



**Posca Pens – PC8K Range**

Posca PC8K, the poster colour marker, has a unique water-based pigment ink which is usable on most surfaces. You won't find the same fade-proof/waterproof performance with other water-based ink markers.

**FEATURES:**

**BARREL AND CAP**

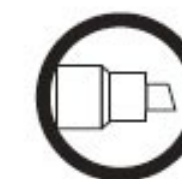
- Weight (gm) 44.7
- Barrel / Cap Material PP
- Clip Material ABS
- Diameter 24.5mm
- Length 124.0mm

**NIB**

- Material Acrylic
- Shape Chisel shaped

**INK AND INK RESERVOIR**

- Ink Content (gm) 17ml
- Ink Type Water-based Pigment Ink
- Writing Distance (m) Writes more than 200m
- Shelf Life Exceeds 2 years



**8 mm**  
BROAD CHISEL  
ACRYLIC TIP

**REFILL TIPS:**  
Reference PCR-8, set of 2.



PRODUCT CODE:	DESCRIPTION:	LINE WIDTH (MM):	ADDITIONAL NOTES:
105-0079	Posca Pen PC8K Orange	8.0	Each
105-0080	Posca Pen PC8K Green	8.0	Each
105-0081	Posca Pen PC8K Light Blue	8.0	Each
105-0082	Posca Pen PC8K White	8.0	Each
105-0083	Posca Pen PC8K Light Orange	8.0	Each
105-0084	Posca Pen PC8K Light Green	8.0	Each
105-0085	Posca Pen PC8K Violet	8.0	Each
105-0086	Posca Pen PC8K Bright Yellow	8.0	Each
105-0087	Posca Pen PC8K Blue	8.0	Each
105-0088	Posca Pen PC8K Brown	8.0	Each

35 colours available upon request (MOQ's may apply on non stock product colours).







**Posca Pens – PC8K Fluorescent Range**

Posca PC8K, the poster colour marker, has a unique water-based pigment ink which is usable on most surfaces. You won't find the same fade-proof/waterproof performance with other water-based ink markers.

**FEATURES:**

**BARREL AND CAP**

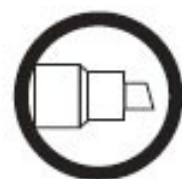
- Weight (gm) 44.7
- Barrel / Cap Material PP
- Clip Material ABS
- Diameter 24mm
- Length 124mm

**NIB**

- Material Acrylic
- Shape Chisel shaped

**INK AND INK RESERVOIR**

- Ink Content (gm) 13.5ml
- Ink Type Water-based Pigment Ink
- Writing Distance (m) Writes more than 200m
- Shelf Life Exceeds 2 years



**8 mm**  
BROAD CHISEL  
ACRYLIC TIP

**REFILL TIPS:**  
Reference PCR-8, set of 2.



PRODUCT CODE:	DESCRIPTION:	LINE WIDTH (MM):	ADDITIONAL NOTES:
105-0073	Posca Pen PC8K Fluorescent Green	8.0	Each
105-0074	Posca Pen PC8K Fluorescent Pink	8.0	Each
105-0075	Posca Pen PC8K Fluorescent Orange	8.0	Each
105-0076	Posca Pen PC8K Fluorescent Yellow	8.0	Each

35 colours available upon request (MOQ's may apply on non stock product colours).



**ESD Refuse Sack**

**FEATURES:**

- Our ESD refuse sacks are made of antistatic polyethylene
- Printed in black with ESD caution logo and text onto polyethylene
- Supplied in packs of 100
- Available in multiple colour options for waste management

Homogeneous, non-amine antistatic polythene film which is effective at low relative humidities (less than 12%).

Specifically designed for the particular needs of the electronics industry, it meets Type II Mil B 81705C.



PRODUCT CODE:	DESCRIPTION:	SIZE (LITRE):	ADDITIONAL NOTES:
091-0028	ESD Bin Liners – Blue	110	Pack of 100
091-0036	ESD Bin Liners – Yellow	110	Pack of 100
091-0046	ESD Bin Liners – Clear	110	Pack of 100
091-0047	ESD Bin Liners – Green	110	Pack of 100

**Conductive Waste Bin**

**FEATURES:**

- Fibreboard Waste Bin
- Made of conductive fibreboard 2mm thick
  - Reinforced bottom corners
  - Round-headed metal stud feet
  - Resistance: <math><10^6 \Omega</math>

- Polypropylene Waste Bin
- Made of black conductive polypropylene
  - Marked with ESD logo
  - Washable
  - Rg: <math><10^6 \Omega</math>



PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
091-0023	Conductive Waste Bin	250 x 250 x 400mm	2mm Fibreboard – Square
091-0025	Conductive Waste Bin	400 x 400 x 780mm	2mm Fibreboard – Square
091-0026	Conductive Waste Bin	300 x 300 x 600mm	2mm Fibreboard – Square
091-0031	Conductive Waste Bin	14 Litre	Polypropylene – Round
091-0051	Conductive Waste Bin	12 Litre	Polypropylene – Round



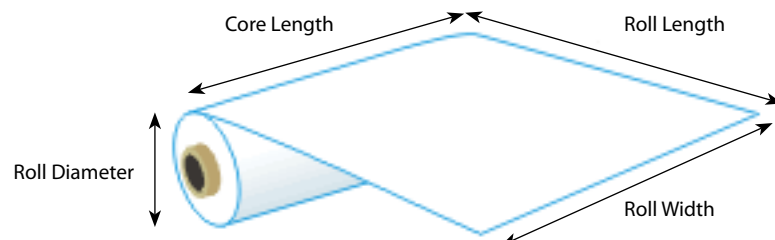
**Stencil Rolls**

Individual manufacturers configure their systems differently to use specific sizes and designs of underscreen cleaning rolls. It is imperative that these specifications are replicated exactly when choosing a screen roll. In particular, the quality of the wiping fabric must be sufficient to absorb solder paste and other contaminants, while remaining sufficiently porous for the vacuum unit to function.

Our screen rolls are made to ensure that manufacturers' specifications are matched exactly in a variety of custom lengths designed to provide cost-effective solutions to varying vacuum and stencil dimensions. Each are made with the most absorbent and durable wiping fabrics available and are especially low linting.

**APPLICATIONS**

- Hybrid Printing
- Wafer Bumping
- Ink Printing
- Cleanroom printing applications
- Enzyme Inks



**DESCRIPTION:**

- Composite from 50% polyester fibre / 50% wood pulp paper by water spunlacing, provides low contamination at economical price

**FEATURES:**

- 50% polyester fibre / 50% wood pulp paper
- Cut, dust removed and packaged in a controlled environment
- Economical size options
- Chemical resistant

**BENEFIT:**

- Low particulate, fibre release and extractable levels
- Permits rigorous wiping with minimal release of fibres and particles
- Great adsorbent properties
- Removes dust effectively
- Lot to lot traceability
- Economical

**APPLICATION:**

- For wiping in LCD, SMT or microelectronic industries
- Spill control in cleanroom
- For cleanroom house keeping

BASIS WEIGHT:	THICKNESS:	SORPTIVE TIME:	SORPTIVE CAPACITY:
55g/m2	0.25 +0.5mm	0.4secs	260ml/m2
68g/m2	0.24 +0.5mm	0.4secs	310ml/m2

PRODUCT CODE:	MANUFACTURER:	CORE LENGTH (MM):	MATERIAL WIDTH (MM):	CORE ID (MM):	REFERENCE:
129-0021	MPM	457	300	19.4	300/457/50
129-0020		457	305	19.4	305/457/41
129-0022		457	305	19.4	305/457/68
129-0023		457	440	19.4	440/457/50
129-0024		457	445	19.4	440/457/41
129-0025		457	445	19.4	445/457/68
129-0026		609	600	19.4	600/609/68
129-0036		DEK	530	400	20
129-0037	530		440	20	440/530/50
129-0016	530		510	20	510/530/50
129-0038	530		517	20	517/530/41

REFERENCE = MATERIAL WIDTH/CORE LENGTH/MATERIAL GRADE.

All material is centred on each core and is individually packed in ESD Safe Packaging. Rolls can be made to suit your exact requirements, please contact one of our sales advisors on +44 (0) 1473 836 200 for more information.

**Universal ESD Swab**

The universal ESD Swab ANT742E is an excellent dissipative swab that features a cleanroom laundered, 100 ppi (Z) open cell polyurethane foam head that possesses high solvent capacity and good cushioning. It has a compact and firm handle with a round internal core providing stable support in cleaning small and confined areas. Universal ESD Swabs ANT742E are free from organic contaminants such as silicone, amide and phthalate esters. They feature very low non-volatile residue (NVR), ion content and particle generation. Universal ESD Swabs ANT742E are excellent in cleaning static sensitive components.

**FEATURES:**

- Free from silicone, amide and DOP
- Low both in particles and ion content
- ESD safe handle
- Thermally bonded foam head
- High solvent capacity, soft and non-abrasive
- Compatible with most common solvents
- Design: Rigid head with compact handle

**APPLICATIONS:**

- Cleaning with solvents such as IPA
- Cleaning small and confined areas
- Applying lubricants or other liquids
- Remove flux residues and excess materials
- For general purpose cleaning



(Universal Foam Swab with firm, compact, round core handle)

DETAILS:	
Foam Head	100ppi (Z) Open-Cell
Head Bond	Thermal
Handle Material	Polypropylene
Contamination Characteristics	Particles, Readily releasable Particles ≥ 0.5 um ≤ 25000 counts/swab
	Non-volatile Residue DIWater < 0.15 mg/swab IPA < 0.40 mg/swab
	Ion Content Chloride < 0.90 ug/swab Sulphate < 0.40 ug/swab Total Anions < 1.30 ug/swab
ESD Characteristics	Organic Contamination No detectable silicone, amide or DOP.
	10 x 10 <sup>10</sup> Ω/sq

PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
130-0137	Universal ESD Swab	Handle Length 120 mm Total Swab Length 71.0 mm	500 swabs / bag



**ESD Foam Swab**

ESD Foam Swab ANT750E is constructed from compressed, 100 ppi (Z) open-cell polyurethane foam that is free from organic contaminants such as silicone, amide or phthalate esters. The foam is thermally bonded to the handle, thus, eliminating the use of contaminating adhesives. It is an excellent swab for cleaning small slotted and hard to reach areas. It has a compact mini compressed foam head which possesses firmness and a pointed tip. It features an ESD safe, rigid and compact handle. They feature very low non-volatile residue (NVR), ion content and particle generation. Designed for general purpose cleaning, ESD Foam Swabs ANT750E are the ideal swabs to use in cleaning static sensitive components.

**FEATURES:**

- Free from silicone, amide and DOP
- Low non-volatile residue
- Low in both particles and ion content
- ESD safe handle
- Thermally bonded foam head
- High solvent capacity, compact and non-abrasive tip
- Compatible with most common solvents
- Design: Smooth pointed head with compact handle

**APPLICATIONS:**

- Cleaning small, slotted and hard to reach areas with solvents such as IPA
- Micro-mechanical cleaning
- Applying lubricants or other liquids
- Remove flux residues and excess materials
- For general purpose cleaning



(Mini Compressed ESD Foam Swab with Small Pointed Head and Rigid Handle.)

DETAILS:	
Foam Head	100ppi (Z) Open-Cell
Head Bond	Thermal
Handle Material	Polypropylene
Contamination Characteristics	Particles, Readily releasable Particles $\geq 0.5 \mu\text{m} \leq 25000$ counts/swab
	Non-volatile Residue DIWater < 0.15 mg/swab IPA < 0.40 mg/swab
	Ion Content Chloride < 0.90 ug/swab Sulphate < 0.40 ug/swab Total Anions < 1.30 ug/swab
	Organic Contamination No detectable silicone, amide or DOP.
ESD Characteristics	$10 \times 10^{10} \Omega/\text{sq}$

PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
130-0136	ESD Foam Swab	Handle Length 75.0 mm Handle Diameter 2.5 mm Total Swab Length 85.0 mm	500 swabs / bag

**ESD Polyester Swab**

ESD Polyester Swab ANT758E is an excellent dissipative swab for cleaning small slotted and grooved areas. It has a flexible polyester head paddle and a compact ESD safe handle. ESD Polyester Swabs ANT758E are free from organic contaminants such as silicone, amide or phthalate esters. They feature very low non-volatile residue (NVR), ion content and particle generation. ESD Polyester Swabs ANT758E are excellent for general purpose cleaning.

**FEATURES:**

- Free from silicone, amide and DOP
- Low in particles, ion content and non-volatile residue
- Compact ESD safe handle
- Flexible head paddle
- Thermally bonded compact, polyester head
- High solvent capacity, soft and non-abrasive
- Compatible with most common solvents
- No contaminating coatings
- Design: Flexible head paddle with compact handle

**APPLICATIONS:**

- Cleaning with solvents such as IPA
- Cleaning small and confined areas
- Applying lubricants or other liquids
- Remove flux residues and excess materials
- For general purpose cleaning



(Mini ESD Polyester Swab with Flexible Head Paddle and Compact Handle.)

DETAILS:	
Foam Head	100% Knitted Polyester
Head Bond	Thermal
Handle Material	Polypropylene
Contamination Characteristics	Particles, Readily releasable Particles $\geq 0.5 \mu\text{m} \leq 25000$ counts/swab
	Non-volatile Residue DIWater < 0.15 mg/swab IPA < 0.40 mg/swab
	Ion Content Chloride < 0.90 ug/swab Sulphate < 0.40 ug/swab Total Anions < 1.30 ug/swab
	Organic Contamination No detectable silicone, amide or DOP.
ESD Characteristics	$10 \times 10^{10} \Omega/\text{sq}$

PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
130-0138	ESD Polyester Swab	Handle Length 75.0 mm Handle Diameter 2.5 mm Total Swab Length 85.0 mm	500 swabs / bag





**Clean Room Safe Static Dissipative Bottles**

These moulded polyethylene bottles utilise a concentrate that does not contain any Ethoxylated Tertiary Amine, which is widely used as an antistatic agent. These ESD safe bottles have an average surface resistivity of  $10^9$  to  $10^{10}\Omega/\text{square}$  and do not have any less desirable features associated with surfactant laden material.

These bottles will dissipate a static charge of +5000V in less than 2 seconds at 40% relative humidity. By their chemical nature, they will not have any chemical reactivity with solvents as TCE or alcohol. The pH of the deionised water solutions tested were the same before and after a seven day period. No colour or physical change was noted for any solvents tested.



PRODUCT CODE:	DESCRIPTION:	SIZE:	ADDITIONAL NOTES:
146-0001	ESD Flux Bottle	2oz Bottle – 26 Gauge	Each
146-0010	ESD Flux Bottle	2oz Bottle – 20 Gauge	Each
146-0013	Catch All Cup	16oz	Each
146-0016	ESD Flux Dispenser with Brush Tip	-	Each
146-0017	ESD Flux Dispenser with Pen Tip	-	Each
146-0018	ESD Replacement Brushes for 146-0016	-	Pack of 5
146-0020	ESD Spray Bottle	16oz	Each
146-0021	ESD Spray Bottle	32oz	Each
146-0022	ESD Mister Bottle	2oz	Each
146-0023	ESD Mister Bottle	8oz	Each
146-0024	ESD Mister Bottle	16oz	Each
146-0025	ESD Sports Bottle	32oz	Each
146-0037	ESD Water Bottle	8oz	Each
146-0038	ESD Wash Bottle	8oz	Each
146-0039	ESD Round Storage Bottle with Lid	32oz	Each
146-0040	ESD Wash Bottle	16oz	Each
146-0041	ESD Solvent Dispenser	4oz	Each
146-0011	ESD Solvent Dispenser	6oz	Each
146-0012	ESD Solvent Dispenser	8oz	Each
146-0043	ESD Water Bottle	16oz	Each

**Conductive Brush Range**

Antistat have a wide variety of conductive brushes on offer. We may only have a few listed as part of our core items on the website, however we are able to offer a larger range. If you have any enquiries with regards to conductive brushes, then please do not hesitate to contact one of our experienced sales team on +44 (0) 1473 836 200.

**FEATURES:**

- Conductive handle with conductive nylon bristles
- Suitable for cleaning PCB's
- Resistivity  $10^4$  to  $10^6 \Omega$
- Suitable for both abrasion and residue removal
- The handle is made of conductive plastic ( $10^4$ – $10^6 \Omega$ ) and the comb is made of dissipative plastic ( $10^8$ – $10^{10} \Omega$ )
- Removes dirt on PCB or other sensitive components, and discharges the static electricity to the ground
- Brushes minimize static charge generation and dissipates ESD charges to ground when held by grounded personnel



PRODUCT CODE:	DESCRIPTION:	BRISTLE AREA (MM):	ADDITIONAL NOTES:
154-0112	Conductive Brush	16 x 3 x 12	Each
154-0124	Conductive Brush	30 x 5 x 38	Each
154-0125	Conductive Brush	50 x 10 x 50	Each
154-0126	Conductive Brush	75 x 10 x 50	Each
154-0127	Conductive Brush	37 x 6 x 25	Each
154-0128	Conductive Brush	35 x 7 x 15	Each
154-0129	Conductive Brush	70 x 13 x 20	Each
154-0130	Conductive Brush	110 x 15 x 20	Each
154-0131	Conductive Brush	110 x 40 x 20	Each
154-0139	Conductive Brush	20 x 12 x 16	Each
154-0141	Conductive Brush	12 x 6 (Round)	Each



PRODUCT CODE:	DETAILS:	IMAGE:
154-0112	Handle Size: 1.8 x 131 mm Length Comb Length: 11 mm (2 rows)	
154-0124	Handle Size: 1-1/2" x 125 mm Length Comb Length: 25mm	
154-0125	Handle Size: 2" x 150 mm Length Comb Length: 50mm	
154-0126	Handle Size: 3" x 155 mm Length Comb Length: 60mm	
154-0127	Handle Size: 1-1/2" x 125 mm Length Comb Length: 25mm	
154-0128	Handle Size: 18 Width x 188 mm Length Comb Length: 20 mm (4 lines)	
154-0129	Handle Size: 18 Width x 225 mm Length Comb Length: 20mm (4 lines)	
154-0130	Handle Size : 23 Width x 245 mm Length Comb Length: 20mm (4 lines)	
154-0131	Handle Size: n/a Comb Length: 20mm	
154-0139	Handle Size: 1" x 145 mm Length Comb Length: 15mm	
154-0141	Handle Size: n/a Comb Length: 6mm	

**Notes:**

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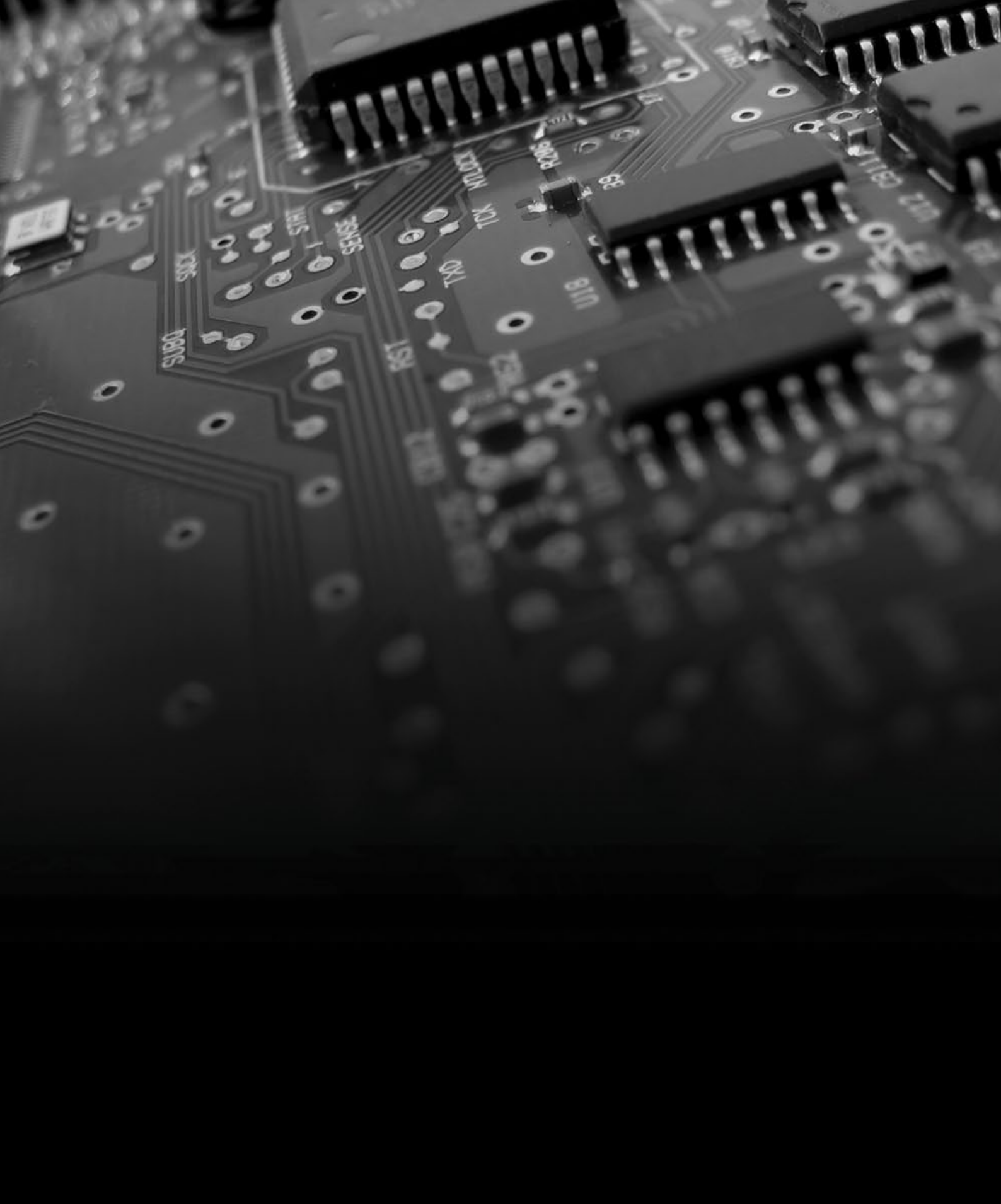
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