



PROTECT ELECTRO STATIC SENSITIVE DEVICES

ABOUT ELECTROSTATIC DISCHARGE (ESD)

To a greater or lesser extent all contact between objects, every separation of one item from another, each sliding of one thing on another, causes a disturbance of electrical charge. When charge disturbance take place faster than charge redistribution, static charge accumulates. ESD occurs where charges of different electrostatic potentials meet. The flow of electrons is usually sudden and releases energy that can damage electrostatic sensitive devices (ESDs) This is referred to as tribo electric generations.

Static charges of upto 30000 volts are not uncommon and can be generated by the simple act of walking across a floor, yet a discharge of only 10 volts can destroy a class 1 ESD sensitive device.

A material that inhibits the generation of tribo electric generation is classified as anti-static. An anti-static material can be

conductive (10^3 - 10^6 ohms/sq),

static dissipative (10^7 - 10^9 ohms/sq),

anti-static (10^{10} - 10^{12} ohms/sq) or even

insulative (greater than 10^{12} ohms/sq)

Only conductive or static dissipative anti static material should be used in ESD protected areas .

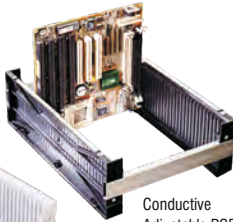
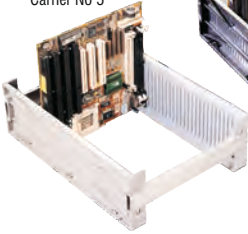
10^3 10^4 10^5 10^6 CONDUCTIVE	10^7 10^8 10^9 STATIC DISSIPATIVE	10^{10} 10^{11} 10^{12} ANTI STATIC	10^{13} INSULATIVE
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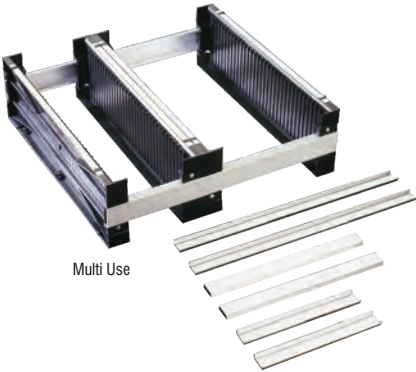


CONDUCTIVE AND NON CONDUCTIVE ADJUSTABLE PCB CARRIERS

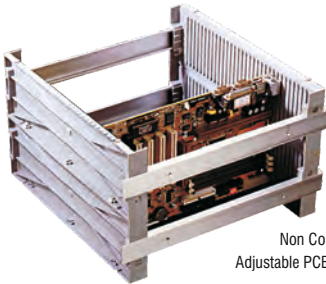
Non Conductive Adjustable PCB Carrier No 5



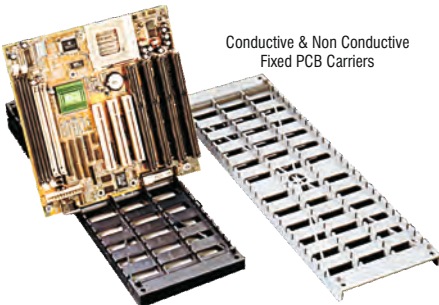
Conductive Adjustable PCB Carrier No 5



Multi Use



Non Conductive Adjustable PCB Carrier No 6



Conductive & Non Conductive Fixed PCB Carriers

ALKON adjustable PCB Carriers can be used for protection of boards during storage or transport in assembly line or integrated with automatic component insertion machines. They can be stacked one on each other. Each PCB Carrier has 31 distinct slots which can hold a maximum of 31 PCB's. Special Aluminium Guides have a unique design which remains flush with the PCB Carriers. They help in adjusting the width as per the size of the PCB's. Three lengths of aluminium guides are available i.e. 253mm, 353mm and 553mm.

ADJUSTABLE PCB CARRIER NO : 5

Useful for small to medium boards.

Size of sides 350mm (L) x 105mm (H)

Use different size of Aluminium guides to make the configuration as per the size of the PCB.

Different sizes of PCB's can be fitted in two PCB Carriers as shown in the picture.

Conductive Adjustable PCB Carrier No : 5

Set of 2 pcs.- Colour Black made from conductive polystyrene.

Art No : **APCR5 - C**

Non Conductive Adjustable PCB Carrier No : 5

Set of 2 pcs.- Colour Grey made from high impact polystyrene.

Art No : **APCR5 - N**

Order aluminium guides separately.

ALUMINIUM GUIDES

Are available in three standard lengths :

Art No : **APCRG - 2**

253 mm Set of 2 pcs.

Art No : **APCRG - 3**

353 mm Set of 2 pcs.

Art No : **APCRG - 5**

553 mm Set of 2 pcs.

ADJUSTABLE PCB CARRIER NO.: 6

Useful for medium sized boards.

Size of sides 350mm (L) x 210mm (W)

2 Sets of Aluminium guides are required for Carrier No 6

Conductive Adjustable PCB Carrier No : 6

Set of 2 pcs. - Colour Black. Art No : **APCR6 - C**

Made from conductive polystyrene.

Non Conductive Adjustable PCB Carrier No : 6

Set of 2 pcs. - Colour Grey. Art No : **APCR6 - N**

Made from high impact polystyrene.

Order Aluminium guides separately.

CONDUCTIVE & NON CONDUCTIVE FIXED PCB CARRIERS

Economical carriers for handling clinched SMD's, Soldered or bare boards of any size.

Tapered slots to keep PCB's in taper position.

Easy to carry.

Size 458mm (L) x 140mm (W)

25 Slots

Black Colour for conductive. Art No : **APCR1-C**

Made from conductive polystyrene.

Grey Colour for non conductive. Art No : **APCR1-N**

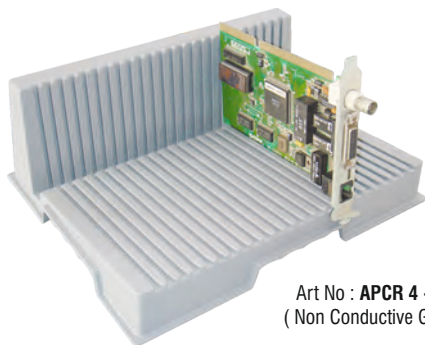
Made from high impact polystyrene.

Packing : Fixed PCB Carriers are packed 5 pcs. in a box.

All dimensions in mm approx.



Art No : **APCR 4 - C**
(Conductive Black)



Art No : **APCR 4 - N**
(Non Conductive Grey)

It is a two side support PCB carrier of conductive or non conductive material for stronger card holding. Conductive PCB carriers are excellent PCB carriers for work benches. Easy to handle and does not occupy much space.

- Holds boards on two contiguous edges.
- Nestable when not in use.
- Conductive PCB carrier available in Black colour.
- Made from conductive polystyrene.
- Non conductive PCB carriers available in Grey colour.
- Made from high impact polystyrene.
- Size : 207mm (D) x 273mm (W) x 95 mm (H)
- 25 grooves, 9mm Pitch, 3mm width.

CONDUCTIVE COMPONENT ORGANISER



Conductive Component Organiser

COMPONENT ORGANISER

- Conductive Component Organiser provides systematic storage of electrostatic sensitive devices.
- It consists of a cabinet with 25 small drawers.
Size of Cabinet :
400mm (W) x 250mm (H) x 160mm (D)
- Size of the Drawers :
150mm (L) x 75mm (W) x 35mm (H)
- Art No : **ACO 25 - C Conductive**
- Made from conductive polystyrene.

All dimensions in mm approx.