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Interface Materials

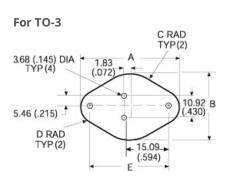
- Insulators
- Aluminum Oxide Ceramic
- Insulating Covers
- Bushings
- Mica
- Thermalsil
- Beryllium Oxide Ceramic
- Hard Anodized Aluminum

Insulators

Aluminum Oxide Ceramic

Aluminum oxide insulating washers have a dielectric strength of approximately 21.7×103 volts/mm for 0.76mm material (550 volts/mil for 0.030 inch material) and 16.9×103 volts/mm for 1.57mm material (430 volts/mil for 0.062 inch material). The thermal conductivity of aluminum oxide is 15.06 W/mK @ 75° (8.71 BTU/hr-ft°F @ 167°F). Aluminum oxide has unique thermal conductivity qualities and features low loss factors at $high\ frequencies.\ It\ has\ high\ compressive\ strengths,\ high\ volume\ resistivity,\ low\ thermal$ expansion and it resists radiation.

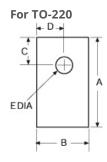
Note: Hole diameters are +/- 0.13mm (0.005"), angularity is +/- 1° and flatness is 0.05mm (0.002") TIR unless otherwise specified.



Part Number	RoHS	PCN	А	В	С	D	E
4103G*	RoHS √ Compliant	Product Change Notice	39.70 (1.563)	26.67 (1.050)	13.34 (0.525)	4.75 (0.187)	30.40 (1.197)

^{*}Thickness:

4103: 1.78 (0.070) to 2.03 (0.080)



Part #	RoHS	PCN	А	В	С	D	Е	Thickness
4169G*	RoHS √ Compliant	Product Change Notice						1.57mm +/- 0.08 (0.062" +/- 0.003")
4170G**	RoHS √ Compliant	Product Change Notice						1.57mm +0.51/-0.08 (0.062" + 0.020/-0.003)
4171G**	RoHS √ Compliant	Product Change Notice						1.778mm +/- 0.254 (0.070" +/- 0.010")
4177G**	RoHS √ Compliant	Product Change Notice						1.778mm +/- 0.254 (0.070" +/- 0.010")

^{*} Surface flatness is 0.10mm (0.004") TIR ** Surface flatness is 0.05mm (0.002 TIR)

For TO-218, TO-247, and TO-3P

Part Number	RoHS	PCN	А	В	C	D	E
4180*	RoHS ✓	Product Change Notice	23.24	18.80	6.98	9.40	3.96
4100"	Compliant	Notice	(0.915)	(0.740)	(0.275)	(0.370)	(0.156)

^{*}Thickness:2.03mm +/- .25 (0.080" +/- .010")

Insulating Covers

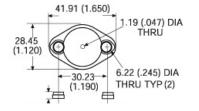
TO-3 Insulating Covers are designed to provide protection from accidental shock during field service or repair.

8903 Screw Mounted Cover

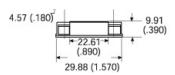
Pan head screws not provided - MS 51957-30 or equivalent recommended - secure the $\,$ cover to the TO-3. At the typical mounting screw torque of .68 - .90 Nm (6-8 inch pounds), the TO-3 cover material cold-flows around the screw head to securely fasten the cover.

Included are No.6 split washers as inserts to provide electrical connection of mounting screws to the TO-3 collector and an insulating snap-in cover for the screw heads. A test $\,$ probe hole is provided in the top of the cover.

The 8903VB is made from thermoplastic polyester that meets the requirements of UL $\,$ $\hbox{Bulletin 94 V-O. In addition to its excellent flammability rating, thermoplastic polyester}\\$ offers resistance to most chemical environments, heat deflection temperature to 215.6 $^{\circ}\text{C}$ (420°F) and UL continuous use temperature of 130 °C (266 °F).



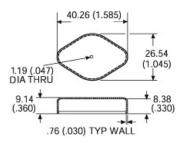
Check Distributor Stock Enter a part number for pricing and availability. go!



Part Number	RoHS	PCN	Material	Color	Flammability Standards
8903NWG	RoHS √ Compliant	Product Change Notice			Self-extinguishing UL 94 V-2
8903VBG	RoHS √ Compliant	Product Change Notice	Thermoplastic Polyester	Black	Self-extinguishing UL 94 V-0 UL 492 Type 1

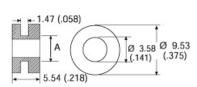
8909 Snap on Cover

Designed to prevent accidental electrical shock, the 8909 fits TO-3 case styles. A test probe hole in top eliminates the need to remove cover for testing. Recommended for low vibration applications. A precise friction fit is required for proper assembly. Please read the engineering information release for more details on the fit problems that can arise. The 8903 cover shown above is recommended for most applications due to the typical size variation of the TO-3 package.



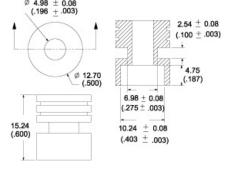
Part Number	RoHS	PCN	Material	Color	Flammability Standards
8909NBG	RoHS Compliant	Product Change Notice	Nylon	Black	UL 94 V-2

Bushings PTFE-Filled Acetal Insulators

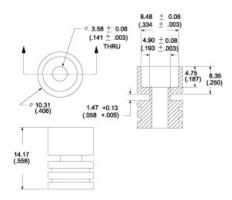


Part Number	RoHS	PCN	FITS Notch	A Dim
103G	RoHS √ Compliant	Change =	4.83 (0.190)	4.90 (0.193)
109G	RoHS √ Compliant	Change =	0.00	6.35 (0.250)

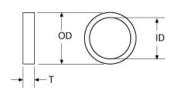
Part Number: 110500F00000



Part Number: 110700F00000

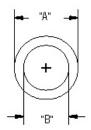


PTFE-Filled Acetal Bushings



Part Number	RoHS	PCN	I.D.	O.D.	Т
110G	RoHS √ Compliant				1.57 / 1.40
110G	Compliant	Notice	(0.198 / 0.205)	(0.268 / 0.275)	(0.062 / 0.055)
113G	RoHS √ Compliant				1.57 / 1.40
113G	Compliant	Notice	(0.253 / 0.260)	(0.308 / 0.315)	(0.062 / 0.055)

Nylon Bushings - Material is Nylon type 6



Part Number	Α	В	С
1111*			1.40 / 1.66
114"	(0.177 / 0.182)	(0.140 / 0.150)	(0.055 / 0.065)
116**	9.19 / 9.45		
110	(0.362 / 0.372)	(0.264 / 0.274)	(0.057 / 0.067)

^{*}Formerly Motorola Part Number B51547F002

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