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Insulators

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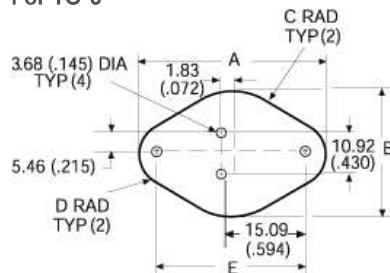
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Aluminum Oxide Ceramic

Aluminum oxide insulating washers have a dielectric strength of approximately 21.7 x 103 volts/mm for 0.76mm material (550 volts/mil for 0.030 inch material) and 16.9 x 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.

For TO-3

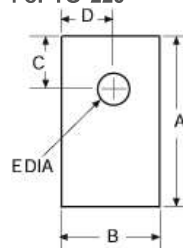


Part Number	RoHS	PCN	A	B	C	D	E
4103G*			39.70 (1.563)	26.67 (1.050)	13.34 (0.525)	4.75 (0.187)	30.40 (1.197)

*Thickness:

4103: 1.78 (0.070) to 2.03 (0.080)

For TO-220



Part #	RoHS	PCN	A	B	C	D	E	Thickness
4169G*			19.30 (0.760)	13.97 (0.550)	4.78 (0.188)	6.98 (0.275)	3.68 (0.145)	1.57mm +/- 0.08 (0.062" +/- 0.003")
4170G**			19.30 (0.760)	13.97 (0.550)	4.78 (0.188)	6.98 (0.275)	3.68 (0.145)	1.57mm +0.51/-0.08 (0.062" + 0.020/-0.003)
4171G**			16.51 (0.650)	12.70 (0.500)	4.32 (0.170)	6.35 (0.250)	3.81 (0.150)	1.778mm +/- 0.254 (0.070" +/- 0.010")
4177G**			17.45 (0.687)	14.27 (0.562)	5.54 (0.218)	7.14 (0.281)	3.18 (0.125)	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	A	B	C	D	E
4180*			23.24 (0.915)	18.80 (0.740)	6.98 (0.275)	9.40 (0.370)	3.96 (0.156)

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