

# Insulators

Part Number - 4180G

## Aluminum Oxide Ceramic

Aluminum oxide insulating washers have a dielectric strength of approximately  $21.7 \times 10^3$  volts/mm for .76mm material (550 volts/mil for 0.030 inch material) and  $16.9 \times 10^3$  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 at 75° (167° F) [8.71 BTU/hr-ft° 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 +/- .13mm (.500"), angularity is +/- 1° and flatness is .05mm (.002") TIR unless otherwise specified.

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

Part Number	A	B	C	D	E
4180G*	23.24 (0.915)	18.80 (0.740)	6.98 (0.275)	9.40 (0.370)	3.96 (0.156)

\*Thickness: 2.03mm +/- .25 (.080" +/- .010")