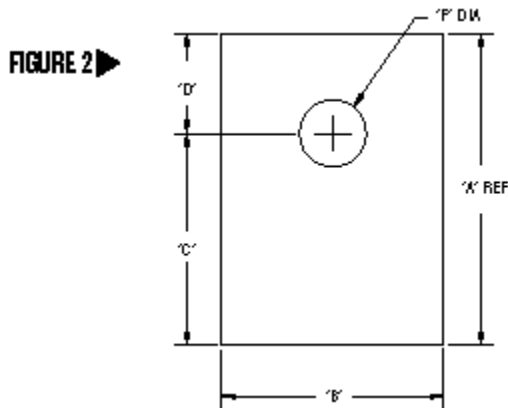


Mica

Mica insulators provide high maximum operating temperatures (550°C) and excellent electrical properties.

Part No.	Figure	Case Style	A	B	C	D	F	Thickness
56-02-101*	2	TO-218	26.16 (1.000)	22.61 (.890)	17.91 (.705)	8.26 (.325)	11.30 (.144)	.05/.10 (.002/.004)

- This insulator is also for TO-18, TO-247, and TO3P.
Note: Tolerances are $\pm .38\text{mm}$ (.015") unless otherwise specified.



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Property	Typical Value 25°C
Electrical	
Dielectric Strength .025mm to .076mm thick in air (1 to 3 mils thick in air)	172 x 10 ³ volts/mm (4500 volts/mil)
Dielectric Constant	6.5 to 8.7
Dissipation Factor 10⁶ Cycles	.0001 -.004
Volume Resistivity	10 ¹⁵ ohm-cm
Physical	
Modulus of Elasticity in Tension	172 x 10 ³ (25 x 10 ⁶ psi)
Tensile Strength	310 MPa (45,000 psi)
Hardness Mohs	3.0
Shore	115
Comprehensive Strength	2.21 x 10 ⁸ Pa (32,000 psi)
Specific Gravity	2.9
Thermal	
Thermal Conductivity:	0.528 Wm ⁻¹ °C ⁻¹ (.30 Btu/hr.ft °F)
Coefficient of Thermal Expansion	3.24 x 10 ⁻⁵ /°C (1.8x 10 ⁻⁵ /°F)
Specific Heat	.084 KJ/Kg°C (.02 Btu/Lb °F]
Melting Point	1275°C
Maximum Operating Temperature (1022°C)	550°C

Chemical Composition	
Silica	45.4%
Alumina	37.5%
Potash	12.0%
Water	5.0%