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**Interface Materials**

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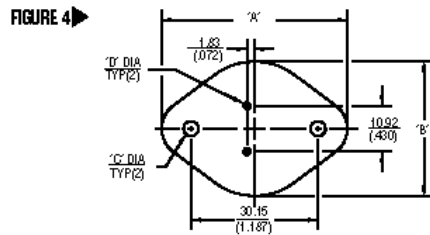
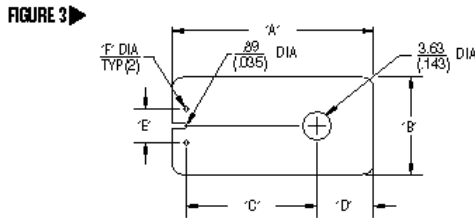
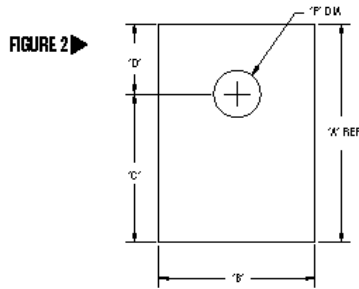
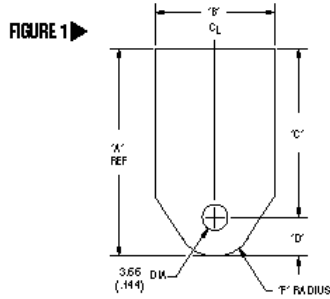
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[Hard Anodized Aluminum](#)











## Mica insulators

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



Note: Tolerances are ±.38mm (.015") unless otherwise specified.

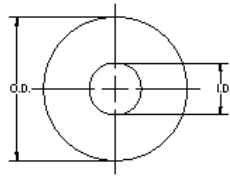
| Part No. | RoHS            | PCN | Figure | Case Style | A                | B                | C                | D               | E   | F              | Thickness                  |
|----------|-----------------|-----|--------|------------|------------------|------------------|------------------|-----------------|-----|----------------|----------------------------|
| 56-02-95 | RoHS  Compliant | N/A | 1      | TO-218     | 23.24<br>(0.915) | 18.80<br>(0.740) | 16.26<br>(0.640) | 6.98<br>(0.275) | N/A | 5.59<br>(.220) | 0.05/0.10<br>(0.002/0.004) |

|                     |  |   |   |        |                  |                  |                  |                 |                 |                 |                            |
|---------------------|--|---|---|--------|------------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|
| 56-02<br>-<br>101G* | RoHS  Compliant  | N/A   | 2 | TO-218 | 26.16<br>(1.000) | 22.61<br>(0.890) | 17.91<br>(0.705) | 8.26<br>(0.325) | N/A             | 11.30<br>(.144) | 0.05/0.10<br>(0.002/0.004) |
| 56-77<br>-10        | RoHS  Compliant | N/A   | 3 | TO-220 | 21.89<br>(0.862) | 13.21<br>(0.520) | 14.73<br>(0.580) | 5.26<br>(0.270) | 5.08<br>(0.200) | 1.75<br>(0.070) | 0.05/0.10<br>(0.002/0.004) |
| 56-77<br>-8G        | RoHS  Compliant |  | 2 | TO-220 | 18.93<br>(0.745) | 13.84<br>(0.545) | 13.54<br>(0.533) | 5.38<br>(0.212) | N/A             | 3.81<br>(0.150) | 0.05/0.10<br>(0.002/0.004) |
| 56-77<br>-11G       | RoHS  Compliant |  | 2 | TO-220 | 18.93<br>(0.745) | 13.84<br>(0.545) | 13.54<br>(0.533) | 5.38<br>(0.212) | N/A             | 3.05<br>(0.120) | 0.05/0.10<br>(0.002/0.004) |
| 56-03<br>-2G        | RoHS  Compliant |  | 4 | TO-3   | 42.04<br>(1.655) | 27.00<br>(1.063) | 3.96<br>(0.156)  | 1.57<br>(0.062) | N/A             | N/A             | 0.05/0.10<br>(0.002/0.004) |
| 56-03<br>-8G        | RoHS  Compliant |  | 4 | TO-3   | 42.85<br>(1.687) | 30.15<br>(1.187) | 3.96<br>(0.156)  | 1.57<br>(0.062) | N/A             | N/A             | 0.05/0.10<br>(0.002/0.004) |

\* This insulator is also for TO-18, TO-247, and TO3P.

Note: Tolerances are  $\pm 0.38\text{mm}$  (.015") unless otherwise specified.

| Property   | Typical Value 25 °C  |
|--|--|
| Electrical   |  |
| Dielectric Strength<br>0.025mm to 0.076mm thick in air<br>(1 to 3 mils thick in air) | 172 x 10 <sup>3</sup> volts/mm (4500 volts/mil)                |
| Dielectric Constant  | 6.5 to 8.7   |
| Dissipation Factor 10 <sup>6</sup> Cycles  | .0001 -.004  |
| Volume Resistivity   | 10 <sup>15</sup> ohm-cm  |
| Physical   |  |
| Modulus of Elasticity in Tension   | 172 x 10 <sup>3</sup> (25 x 10 <sup>6</sup> psi)               |
| Tensile Strength   | 310 MPa (45,000 psi)   |
| Hardness Mohs  | 3.0  |
| Shore  | 115  |
| Comprehensive Strength   | 2.21 x 10 <sup>8</sup> Pa (32,000 psi)                         |
| Specific Gravity   | 2.9  |
| Thermal  |  |
| Thermal Conductivity:  | 0.528 Wm <sup>-1</sup> °C <sup>-1</sup><br>(0.30 Btu/hr.ft °F) |
| Coefficient of Thermal Expansion   | 3.24 x 10 <sup>-5</sup> /°C<br>(1.8x 10 <sup>-5</sup> /°F)     |
| Specific Heat  | .084 KJ/Kg °C<br>(.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%   |



| Part Number | ID              | OD               | Diameter Tolerances | Thickness                  |
|-------------|-----------------|------------------|---------------------|----------------------------|
| 56-02-10G   | 5.16<br>(0.203) | 14.30<br>(0.563) | ±13 (0.005)         | 0.05/0.10<br>(0.002/0.004) |
| 56-02-72G   | 6.55<br>(0.258) | 25.40 (1.00)     | ±38 (0.015)         | 0.10/0.15<br>(0.004/0.006) |

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