



Tel (toll-free): +1-855-32-AAVID

[Register](#) [Log in](#)

- Home
- Products
- Solutions
- Aavid Design
- Tools & Docs
- Contact
- Company
- Online Store

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

Mica insulators

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

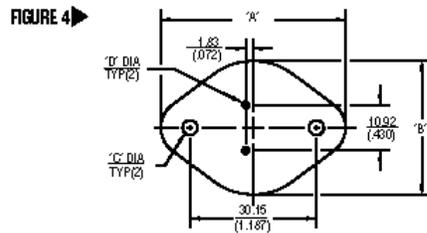
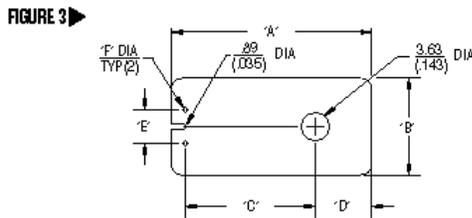
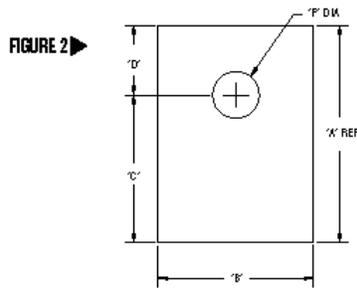
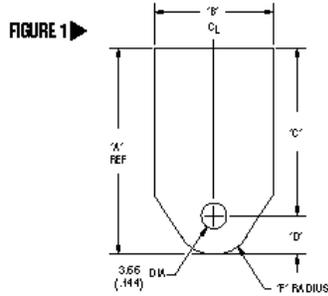
Check Stock

Enter a part number for pricing and availability.

[Request a Sample](#)

[Request a Quote](#)

[Ask an Engineer](#)



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

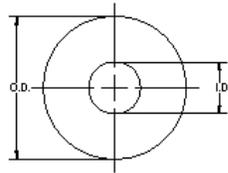
| Part No. | RoHS | PCN | Figure | Case Style | A | B | C | D | E | F | Thickness |
|----------|-----------------|-----|--------|------------|-----------------|-----------------|-----------------|----------------|-----|----------------|----------------------------|
| 56-02-95 | RoHS Compliant | N/A | 1 | TO-218 | 23.24 (.915) | 18.80 (.740) | 16.26 (.640) | 6.98 (.275) | N/A | 5.59 (.220) | 0.05/0.10 (0.002/0.004) |

| | | | | | | | | | | | |
|---------------------|--|---|---|--------|------------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|
| 56-02 - 101G* | RoHS  Compliant | N/A | 2 | TO-218 | 26.16 (1.000) | 22.61 (0.890) | 17.91 (0.705) | 8.26 (0.325) | N/A | 11.30 (.144) | 0.05/0.10 (0.002/0.004) |
| 56-77 -10 | RoHS  Compliant | N/A | 3 | TO-220 | 21.89 (0.862) | 13.21 (0.520) | 14.73 (0.580) | 5.26 (0.270) | 5.08 (0.200) | 1.75 (0.070) | 0.05/0.10 (0.002/0.004) |
| 56-77 -8G | RoHS  Compliant |  | 2 | TO-220 | 18.93 (0.745) | 13.84 (0.545) | 13.54 (0.533) | 5.38 (0.212) | N/A | 3.81 (0.150) | 0.05/0.10 (0.002/0.004) |
| 56-77 -11G | RoHS  Compliant |  | 2 | TO-220 | 18.93 (0.745) | 13.84 (0.545) | 13.54 (0.533) | 5.38 (0.212) | N/A | 3.05 (0.120) | 0.05/0.10 (0.002/0.004) |
| 56-03 -2G | RoHS  Compliant |  | 4 | TO-3 | 42.04 (1.655) | 27.00 (1.063) | 3.96 (0.156) | 1.57 (0.062) | N/A | N/A | 0.05/0.10 (0.002/0.004) |
| 56-03 -8G | RoHS  Compliant |  | 4 | TO-3 | 42.85 (1.687) | 30.15 (1.187) | 3.96 (0.156) | 1.57 (0.062) | N/A | N/A | 0.05/0.10 (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 0.025mm to 0.076mm 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 10 ⁶ 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 (0.30 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% |



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

Customer Assistance

- [Contact Us](#)
- [Get Design Assistance](#)
- [Find a Distributor](#)
- [Find a Sales Rep](#)
- [Request a Quote](#)
- [Placing an Order](#)
- [Terms and Conditions](#)
- [Returns](#)

Popular Products

- [Extrusions](#)
- [Board Level](#)
- [Liquid Cooling](#)
- [Heat Pipe Technology](#)
- [Heat Sink Accessories](#)
- [Interface Materials](#)

Our Company

- [About Aavid](#)
- [News and Events](#)
- [Management Team](#)
- [Worldwide Locations](#)
- [Directions to Headquarters](#)
- [Disclaimer](#)
- [Customer Survey](#)
- [Privacy Policy](#)

Sign up to receive Aavid news & alerts





Aavid will lead the electronics thermal management industry worldwide. We will be the first company customers call to enable their thermal designs anywhere in the world. We will respond with extraordinary speed and will provide them with timely and cost-effective solutions because we understand their needs, their industry, and their culture. 2012 Aavid Thermalloy, LLC

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Thermal Interface Products](#) category:

Click to view products by [Aavid](#) manufacturer:

Other Similar products are found below :

[7721-9PPS](#) [FGN80-2](#) [PFM-172-60](#) [A-40](#) [174-9-230P](#) [9601-7](#) [5300AC](#) [1.500G](#) [08133](#) [V6622C](#) [TVQF-1225-07S](#) [TP0001](#) [4860](#) [SC80-W2](#)
[V6516C](#) [A17713-06](#) [A17713-05](#) [A17690-06](#) [A17775-03](#) [A17690-05](#) [A17653-02](#) [A17690-04](#) [A17775-05](#) [A17775-06](#) [A17690-08](#) [A17689-](#)
[06](#) [A17653-06](#) [A17690-12](#) [A17653-03](#) [A17752-04](#) [A17752-07](#) [A17634-12](#) [19-36565-0001-1](#) [A17752-09](#) [22000-001A](#) [A17752-20](#) [A17752-](#)
[12](#) [A17653-04](#) [A17634-10](#) [A17634-07](#) [A17156-02](#) [TA-1.75](#) [30195](#) [V6516A](#) [SPT400-12-13.5-25](#) [189651F00000G](#) [A17883-07](#) [A17883-08](#)
[A17883-14](#) [A17883-15](#) [A17883-16](#)