

## Material Specifications

Note: All materials listed, with the exception of Tin/Lead plating and PPS insulators are RoHS Compliant and compatible with high temperature processing.

### Insulators:

- LCP** Liquid Crystal Polymer, 30% Glass Reinforced.  
U.L. Rated 94V-0. Color: Black. Thermal Index to 260°C.
- FR-4** Fiberglass Epoxy Board. U.L. Rated 94V-0.  
Color: Black. Thermal Index to 140°C.
- Polyimide Film** (Peel-A-Way®). U.L. Rated 94V-0.  
Thermal Index to 400°C.
- PPS** Polyphenylene Sulfide Glass Reinforced. U.L. Rated 94V-0. Color Natural. Thermal Index to 260° C. (Note: Not compatible with high temperature processing.)

### Terminals:

Brass - Copper Alloy (C36000) per ASTM-B-16.

### Contacts:

Beryllium Copper (BeCu) (C17200) per ASTM-B-194.

### Standard Contact Plating Specifications:

- G:** 30 micro inches Gold per MIL-G-45204 over 50 micro inches of Nickel per QQ-N-290.
- T:** 150 micro inches of 90/10 Tin/Lead per MIL-P-81728 over 50 micro inches of Nickel per QQ-N-290.

### Standard Terminal Shell Plating Specifications:

- G:** 10 micro inches Gold per ASTM-B-488 over 50 micro inches Nickel per QQ-N-290.
- GH:** 30 micro inches Gold per ASTM-B-488 over 50 micro inches Nickel per QQ-N-290.
- T:** 200 micro inches of 90/10 Tin/Lead per MIL-P-81728 over 50 micro inches Nickel per QQ-N-290.
- M:** 100 micro inches of Matte Tin per ASTM545-97 over 50 micro inches Nickel per QQ-N-290.

### Optional Plating Specifications:

- (consult factory for availability)
- Contact: 10 micro inches Gold per ASTM-B-488 over 50 micro inches Nickel per QQ-N-290.
- Contact: Gold Flash over 50 micro inches Nickel per QQ-N-290.
- Terminal Shell: Gold Flash over 50 micro inches Nickel per QQ-N-290.
- Terminal Shell: 200 micro inches of 90/10 Tin/Lead per MIL-P-81728 over 100 micro inches Copper.

### Solder Spheres and Solder Preforms:

- Standard:** Eutectic Tin/Lead, 63Sn/37Pb. 183°C (361°F)
- Lead-free:** Tin/Silver/Copper, 95.5Sn/4.0Ag/0.5Cu or 96.5Sn/3.0Ag/0.5Cu. 218°C (424°F)

### Tape Seal:

Silicone backed Polyimide film. Temperature range: -74°C to 260°C (-100°F to 500°F), Intermittent to 371°C (700°F).

Tolerances: Unless otherwise noted all dimensions are +/- .005 (0.13mm)  
Custom designs available upon request.

ISO 9001:2008 Certified  
(Certificate No. 7566)



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### A Note About Our RoHS Compliant Part Numbers

When insulator or plating materials changed, new part numbers have been established to assist our customers with inventory and documentation control. For existing products that already met RoHS requirements, such as Peel-A-Way® Sockets with Gold plating, part numbers have not changed.

All RoHS Compliant part numbers will be clearly indicated on data sheets and package labels. Look for our "RoHS Compliant Pb Free" symbol and easy-to-use How to Order tables throughout this catalog to assist with selecting RoHS Compliant interconnect products. For complete product information, including RoHS Compliance Test Reports, visit our web site at [www.advanced.com](http://www.advanced.com) or contact one of our experienced Manufacturer's Representatives or Distributors in your area.



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inch/(mm)



5 Energy Way, West Warwick, RI 02893 USA  
Tel: 800.424.9850 | 401.823.5200  
Fax: 401.823.8723  
[info@advanced.com](mailto:info@advanced.com) | [www.advanced.com](http://www.advanced.com)  
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