

MPS(SMD) METAL PLATE SHUNT RESISTOR



GENERAL SPECIFICATIONS

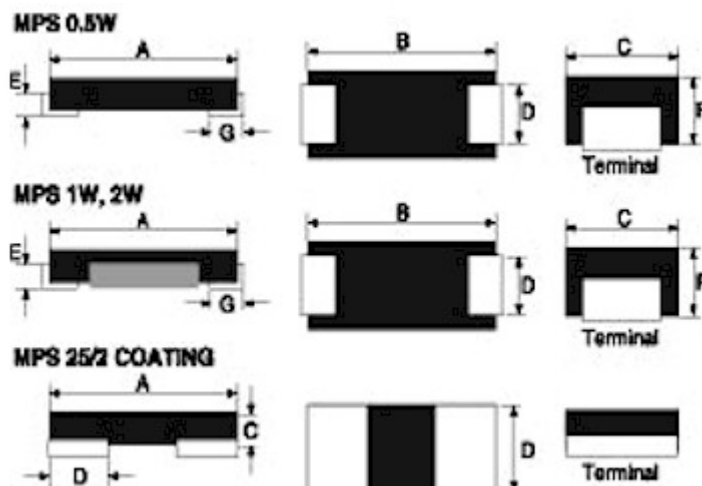
| Model | Power Rating | Resistance Range (ohms) | Tolerance |
|------------------|--------------|-------------------------|----------------------|
| MPS-2010 | 0.5W | 0.003 to 0.05 | +-5% +-3% +-1% |
| MPS-2512 | 1W | 0.003 to 0.10 | |
| MPS-3216 | 2W | 0.005 to 0.20 | |
| MPS-2512 coating | 1W | 0.001 to 0.005 | |

CHARACTERISTICS

Values in [] mean change in ohmic value after test

| | |
|----------------------------|--|
| Operating Temp. Range | -55C - +150C |
| Temperature coefficient | +- 90ppm/C max. |
| Insulation Resistance | 1000Mohms min. |
| Dielectric Withstanding V. | [+-0.1%] AC 500V for 1 min. |
| Short Time Overload | [+- 2%] 5 X wattage rating, 5 sec. |
| Load Life | [+-0.5%] Wattage rating 1.5hrs. on, 30min. off, 1000hrs. |
| Load Life In Humidity | [+-3%Max] 40+-2C, 90-95% RH., 0.1 X Watt rating, 1.5hrs. on, 30min.off, 1000hrs. |
| High Temp. Exposure | [+-0.5%] 275 C for 2hrs. |
| Low Temp. Storage | [+-0.2%] -55+-2C, 24+-4 hrs. |
| Thermal Shock | [+-0.2%] -55C 30 min., 25C 5 min., 85C 30 min., 25C 5 min., 5 cycles |
| Solderability | 90% coverage min. 230C+-5C for 5+-0.5sec. |

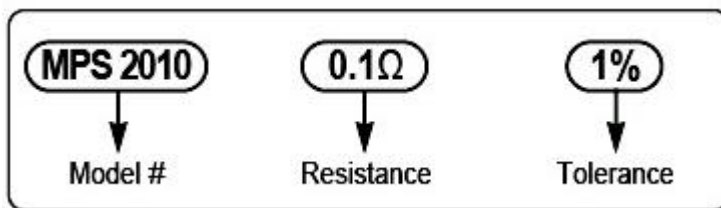
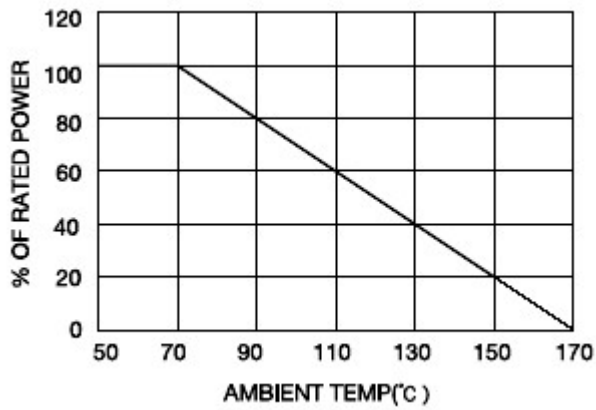
DIMENSIONS



| Model | A+-0.2 | B+-0.2 | C+-0.2 | D+-0.5 | E+-0.2 | F+-0.2 | G+-0.5 |
|------------------|--------|--------|--------|--------|--------|--------|--------|
| MPS-2010 | 4.7 | 5.0 | 2.5 | 2.0 | 1.27 | 1.1 | 1.2 |
| MPS-2512 | 6.0 | 6.4 | 3.2 | 2.0 | 1.4 | 1.3 | 1.0 |
| MPS-3216 | 8.0 | 8.3 | 4.0 | 3.0 | 1.4 | 1.2 | 1.2 |
| MPS-2512 coating | 6.4 | 3.2 | 1.4 | 2.0 | | | |



DERATING CURVE AND ORDERING PROCEDURE EXAMPLE



PACKAGING

Embossed carrier tape per
EIA-481-1,2 Tape widths
MPS 2010- 12.0 mm/5000 Pieces/13" Reel
MPS 2512- 12.0 mm/3000 Pieces/13" Reel
MPS 3216- 16.0 mm/2000 Pieces/13" Reel