

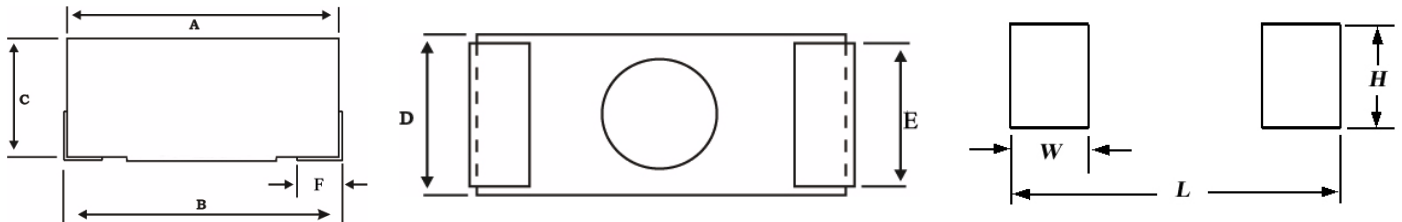
- Features:
- High temperature molded encapsulation
 - Flex termination for absorbing thermal expansion
 - All welded construction
 - Non-inductive types available as NSM
 - RoHS compliant / lead-free



| Electrical Specifications | | | | | | | | |
|---------------------------|-----------------------------|-------------------------|---------------------------------|---|-----------------------------------|---------------------------|---------------------------------------|--------------------------------------|
| Type / Code | Power Rating (Watts) @ 70°C | Maximum Working Voltage | Dielectric Withstanding Voltage | Resistance Temperature Coefficient | Ohmic Range (Ω) and Tolerance (*) | | | |
| | | | | | 0.1% | 0.5% | 1% | 5% |
| SM2615 | 1W | 25V | >500V | ± 75ppm/°C ± 100ppm/°C ± 20ppm/°C | - 5 - 10 10.1 - 400 | - 3 - 10 10.1 - 400 | - 1 - 10 10.2 - 400 | 0.01 - 0.098 0.1 - 10 11 - 400 |
| SM4124 | 2W | 50V | >500V | ± 75ppm/°C ± 100ppm/°C ± 20ppm/°C | - 5 - 10 10.1 - 1K | - 3 - 10 10.1 - 1K | 0.05 - 0.098 0.1 - 10 10.2 - 1K | 0.01 - 0.098 0.1 - 10 11 - 1K |
| SM4527 | 2W | 60V | >500V | ± 75ppm/°C | - | - | 0.01 - 0.05 | 0.01 - 0.05 |
| SMH4527 | 3W | 60V | >500V | ± 75ppm/°C | - | - | 0.01 - 0.05 | 0.01 - 0.05 |
| SM6227 | 3W | 100V | >500V | ± 75ppm/°C ± 100ppm/°C ± 20ppm/°C | - 1 - 10 10.1 - 3K | - 1 - 10 10.1 - 3K | 0.05 - 0.098 1 - 10 10.2 - 3K | 0.05 - 0.098 1 - 10 11 - 3K |
| SM8035 | 4W | 100V | >500V | ± 75ppm/°C ± 100ppm/°C ± 20ppm/°C | - 1 - 10 10.1 - 5K | - 1 - 10 10.1 - 5K | 0.05 - 0.098 1 - 10 10.2 - 5K | 0.05 - 0.098 1 - 10 11 - 5K |

Zero ohm available on all sizes

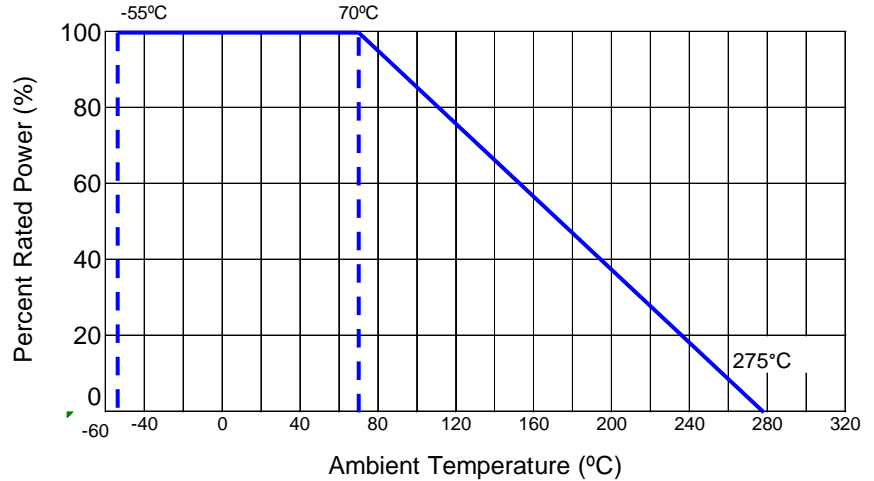
(*) Other resistance values available - contact factory for details



| Mechanical Specifications | | | | | | | | | | |
|----------------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------|---------------|----------------|--------------|
| Type / Code | A Body Length | B Total Length | C Body Height | D Body Width | E Termination Width | F Termination Length | W | H | L | Unit |
| SM2615 | 0.260 ± 0.015 6.60 ± 0.38 | 0.280 ± 0.032 7.11 ± 0.81 | 0.140 ± 0.015 3.56 ± 0.38 | 0.150 ± 0.015 3.81 ± 0.38 | 0.100 ± 0.015 2.54 ± 0.38 | 0.090 ± 0.015 2.29 ± 0.38 | 0.138 3.51 | 0.130 3.30 | 0.350 8.89 | inches mm |
| SM4124 | 0.410 ± 0.015 10.41 ± 0.38 | 0.430 ± 0.032 10.92 ± 0.81 | 0.180 ± 0.015 4.57 ± 0.38 | 0.240 ± 0.015 6.10 ± 0.38 | 0.122 ± 0.015 3.10 ± 0.38 | 0.090 ± 0.015 2.29 ± 0.38 | 0.181 4.60 | 0.157 3.99 | 0.583 14.81 | inches mm |
| SM4527(*) 0.01Ω - 0.05Ω | 0.455 ± 0.015 11.56 ± 0.38 | 0.475 ± 0.032 12.07 ± 0.81 | 0.150 ± 0.015 3.81 ± 0.38 | 0.270 ± 0.015 6.86 ± 0.38 | 0.122 ± 0.015 3.10 ± 0.38 | 0.105 ± 0.015 2.67 ± 0.38 | 0.169 4.29 | 0.157 3.99 | 0.587 14.91 | inches mm |
| SMH4527 | 0.455 ± 0.015 11.56 ± 0.38 | 0.475 ± 0.032 12.07 ± 0.81 | 0.150 ± 0.015 3.81 ± 0.38 | 0.270 ± 0.015 6.86 ± 0.38 | 0.122 ± 0.015 3.10 ± 0.38 | 0.105 ± 0.015 2.67 ± 0.38 | 0.169 4.29 | 0.157 3.99 | 0.587 14.91 | inches mm |
| SM6227 | 0.625 ± 0.015 15.88 ± 0.38 | 0.645 ± 0.032 16.38 ± 0.81 | 0.250 ± 0.015 6.35 ± 0.38 | 0.275 ± 0.015 6.99 ± 0.38 | 0.122 ± 0.015 3.10 ± 0.38 | 0.130 ± 0.015 3.30 ± 0.38 | 0.236 5.99 | 0.157 3.99 | 0.850 21.59 | inches mm |
| SM8035 | 0.800 ± 0.015 20.32 ± 0.38 | 0.825 ± 0.032 20.96 ± 0.81 | 0.362 ± 0.015 9.19 ± 0.38 | 0.350 ± 0.015 8.89 ± 0.38 | 0.122 ± 0.015 3.10 ± 0.38 | 0.122 ± 0.015 3.10 ± 0.38 | 0.340 8.64 | 0.157 3.99 | 0.950 24.13 | inches mm |

(*) Dimensions will vary for values >0.05Ω - contact factory for details.

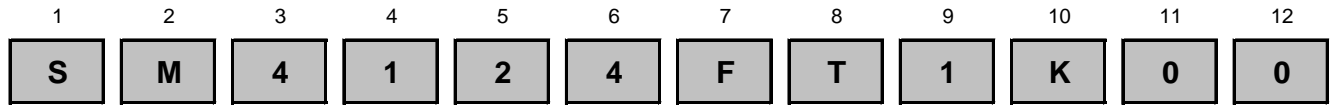
Power Derating Curve:



| Performance Characteristics | |
|---------------------------------|-------------|
| Test | Results |
| Moisture Resistance | ±1% |
| Thermal Shock | ±0.5% |
| Load Life @ 70°C - 1,000 hrs. | ±1% |
| Resistance to Soldering Heat | ±1 |
| Terminal Strength | ±0.5% |
| Dielectric Withstanding Voltage | ±0.001% / V |
| Short Time Overload | ±0.2% |

Operating Temperature Range: -55°C to +275°C

How to Order



| Product Series | | Size | Power | Tolerance | | Packaging | | | | Resistance Value | |
|----------------|---------------|------|-------|-----------|--------|-----------|--------------------------|---------|-------------|---|-------|
| Code | Description | | | Code | Tol | Code | Description | Size | Quantity | | |
| SM | Standard | 2615 | 1W | B | 0.1% | T | 13" Reel Plastic Tape | 2615 | 1,500 | Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10 ⁻³ for any value under 0.1 ohm. 0.01 ohm = 10L0 0.1 ohm = R100 1 Kohm = 1K00 Zero ohm jumper = 0R00 | |
| SMH | High Power | 4124 | 2W | D | 0.5% | | | 4124 | 800 | | |
| NSM | Non-inductive | 4527 | 2W | F | 1% | | | (H)4527 | 4527, H4527 | | 1,200 |
| | | 6227 | 3W | J | 5% | | | 6227 | 6227 | | 750 |
| | | 8035 | 4W | Z | Jumper | | | 8035 | 8035 | | 350 |