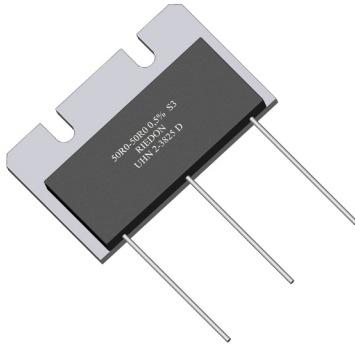


UHN 2-3825D

Precision Shunt Resistors



- Resistances from 50Ohm
- Power Rating to 30Watt
- Resistance Tolerances to $\pm 1\%$
- TCR to $\pm 5\text{ppm/K}$
- Load Stability to 0.01%
- Customized Resistance Values
- Twin Resistor Construction

SPECIFICATIONS

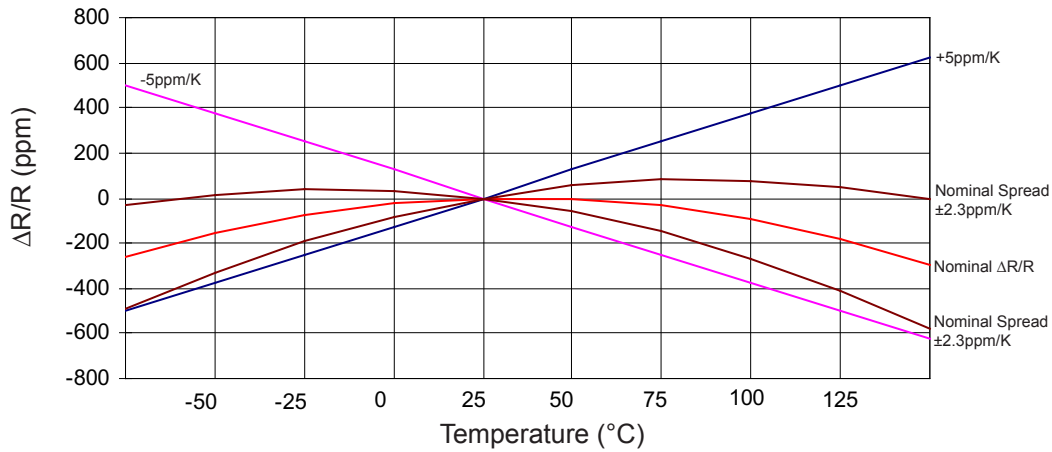
| Type | UHN 2-3825D |
|--|--|
| Resistance Range | 50 Ohms (2x) Other values upon request |
| Power rating free air 70°C with heatsink | 3 W 30 W |
| Thermal Resistance Rthj-c | 3.5 K/W |
| Tolerances | 1% (0.1% difference between the two resistances) Other tolerances upon request |
| Stability | 0.01% |
| Temperature Coefficient | max. $\pm 5\text{ppm/K}$ (-55 to 155°C) |
| Voltage Proof | 500 VDC |
| max. Current | 15 A |
| Thermal EMF | $< 0.1\mu\text{V/K}$ |
| Operating Temperature Range | -55 to 155°C |
| Resistor Material | NiCr-Foil |
| Substrate | Al_2O_3 |
| Housing | Epoxy + Al-heatsink |
| Connector Material | Cu tinned |
| Terminals | 3 |
| Max. Torque | 1.0 Nm |

Ordering Information

Part Number - Resistance - Tolerance
UHN 2-3825D 50Ohms-50Ohms 0.5%

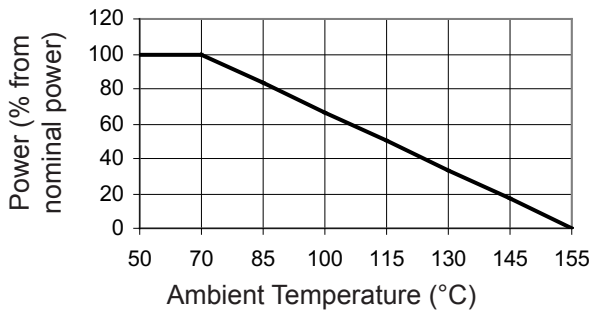
SPECIFICATIONS (continued)

Temperature Coefficient

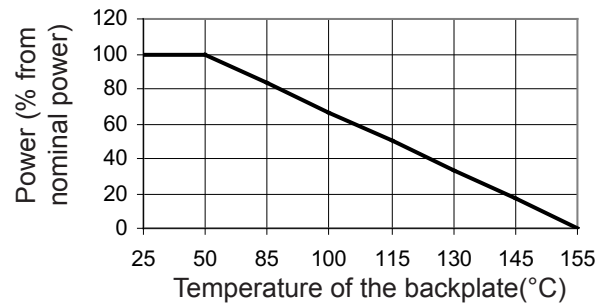


Derating

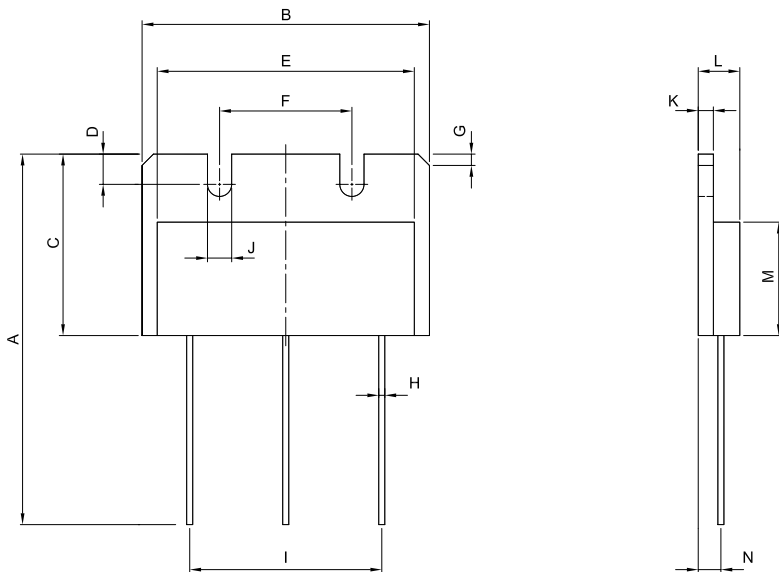
without Heatsink



with Heatsink



Dimensions



| Dimension | mm | tol. (±mm) | inches | tol. (±inches) |
|-----------|---------|------------|---------|----------------|
| A | 49.00 | 2.0 | 1.93 | 0.079 |
| B | 38.00 | 0.3 | 1.50 | 0.012 |
| C | 24.00 | 0.2 | 0.94 | 0.008 |
| D | 4.00 | 0.1 | 0.16 | 0.004 |
| E | 34.00 | 0.3 | 1.34 | 0.012 |
| F | 17.50 | 0.2 | 0.69 | 0.008 |
| G | 1.5x45° | 0.1 | 0.6x45° | 0.004 |
| H | ∅0.8 | 0.1 | ∅0.031 | 0.004 |
| I | 25.40 | 0.2 | 1.00 | 0.008 |
| J | ∅3.2 | 0.1 | ∅0.126 | 0.004 |
| K | 2.00 | 0.1 | 0.08 | 0.004 |
| L | 5.50 | 0.1 | 0.22 | 0.004 |
| M | 15.00 | 0.2 | 0.59 | 0.008 |
| N | 3.00 | 0.2 | 0.12 | 0.008 |