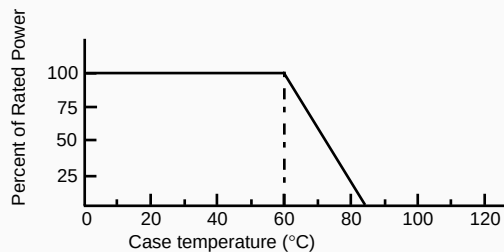


Precision Current Sensing Resistors



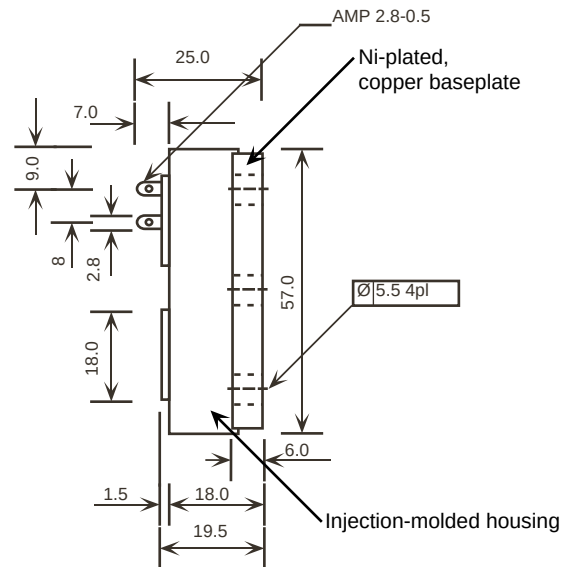
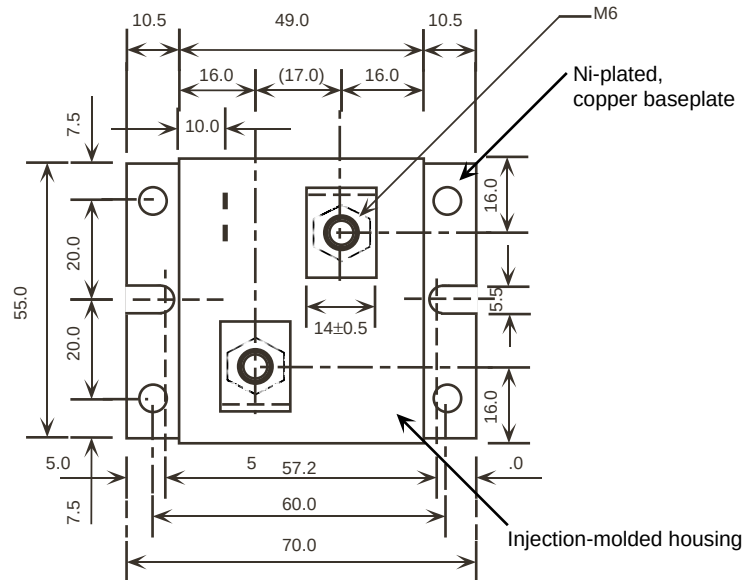
A high power resistor in four-terminal (Kelvin) configuration, the RUG-Z has been developed for applications requiring precision regulation of high DC or low frequency AC currents. The design and construction of RUG-Z allow it to withstand pulses of up to 1000 W without damage or degradation of performance.

The RUG-Z utilizes Zeranin® foil as the resistor element. Zeranin exhibits very low tcr over a wide temperature range, making it ideal for use in power amplifiers in MRI and for controlling super-conducting magnets.



RUG-Z-R010-0.1 TK3

- TCR
- Tolerance
- Resistance value
- Model



Dimensions in millimeters

Technical Data

Parameters

Parameters	RUG-Z
Resistance Range	1, 2, 5, 10, 20, 50, 100, 200, 500 mΩ, 1, 10, 100 Ω
Tolerance	0.1%, 1.0%
Temperature Coefficient of Resistance (20°C to 60°C)	1, 3, 5, 10 ppm/°C
Power Rating (Watts)	250
Single Pulse Power	50 J (t < 10 msec)
Maximum Continuous Current	250A
Dielectric Withstanding Voltage	500 VAC
Inductance (R < 10mΩ)	< 10 nH
Thermal Resistance to Base Plate	Rth < 0.1°C/W
Operating Temperature Range	-55°C to +85°C
Stability (Nominal Load at 70°C)	< 0.1% after 2000 hours