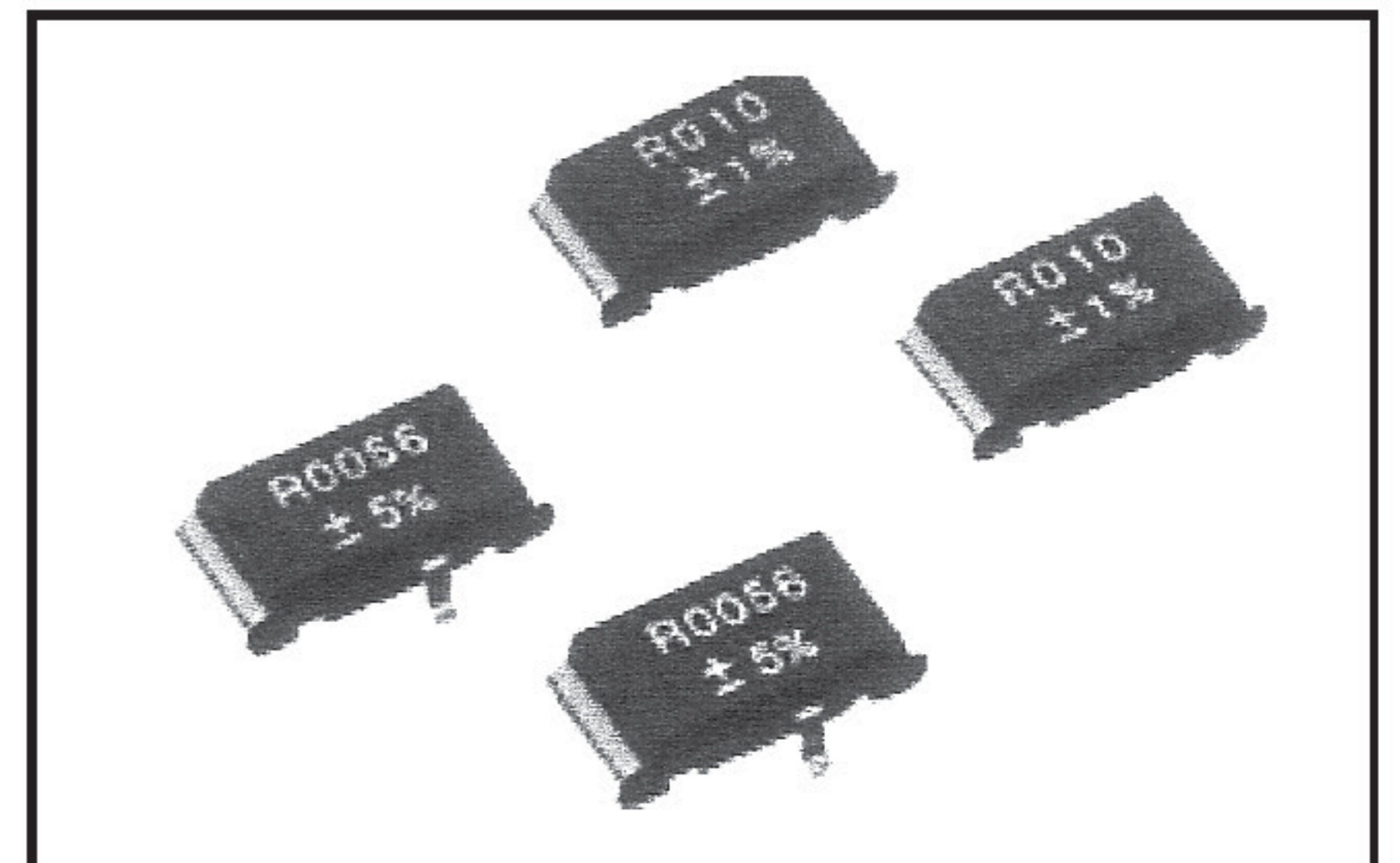


Precision Shunt Chip Resistors

- Precision and power resistor
- Duroplast package
- Four-terminal connection technology on the substrate
- Solid Cu contact suitable for high current load
- Reflow and wave-soldering



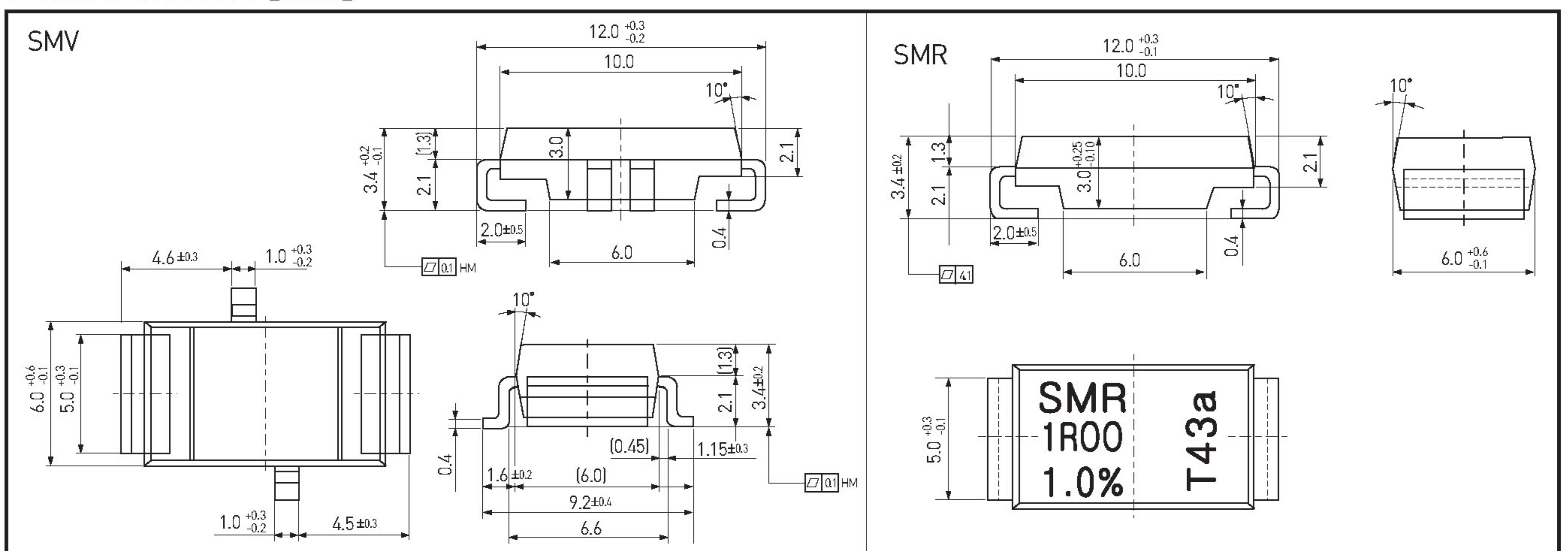
GENERAL SPECIFICATIONS

Type	Load Capacity (W)	Resistance Range(Ω)	Tolerance(%)	Terminal	TCR (20°C-60°C)	Dielectric with standing voltage	Operating Temp	Solder Reflow	Weight(g)
SMV	3	0.001 ~ 1	±0.5, ±1, ±5	4	±30ppm/°C	AC 1000V	-55/°C~+140°C	Max.255°C (t < 40sec)	0.65
SMR	3	0.01 ~ 4.7	0.5(≥0.05Ω), ±1, ±5	2	±50ppm/°C				0.63

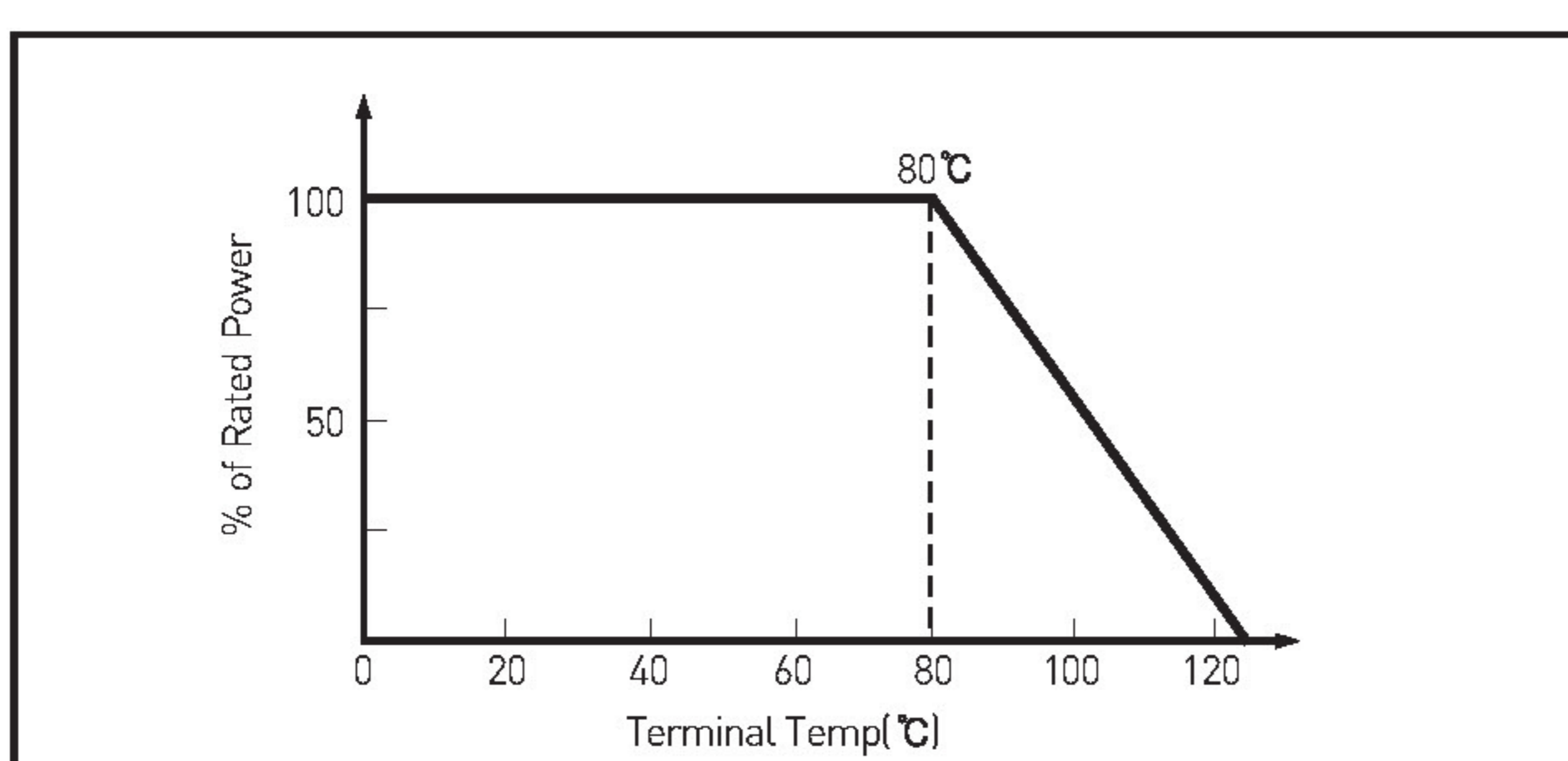
CHARACTERISTICS

Thermal Shock	±0.2%	-65°C, 25°C, 125°C, 25°C, 25cycles
Short Time Overload	±0.2%	5 × Power rating 5secs.
Resistance to Solvents	No Damage	IPA 3minutes
Low temp. Storage and Operation	±0.1%	MIL-R-26E
Thermal Strength	±0.02%	44N 5~10secs.
Resistance to Soldering Heat	±0.1%	260°C 10secs.
Moisture Resistance	±0.1%	Near 100°C RH, +25°C, +65°C, -10°C 10cycles(10days)
Shock	±0.2%	50g's 11ms
Vibration, High Frequency	±0.2%	MIL-STD-202 Method 204D-B
Load Life	±0.2%	Rated Power(1.5hours on-0.5hours off) 2000hours
Storage Life at Elevated Temp.	±0.3%	MIL-STD-202 method 108A-F
High Temperature Exposure	±0.5%	140°C 2000hours
Current Noise	±0.01%	MIL-STD-202 method 308
Voltage Coefficient	linearity error less than 120dB	MIL-STD-202 method 309
Thermal EMF	-2μV/°C maximum	0 ~ 100°C
Frequency Characteristic	< 20nH (SMR 0.1Ω)	Inductance

DIMENSIONS [mm]



DERATING CURVE



ORDERING PROCEDURE EXAMPLE

Model	Resistance	Tolerance[%]
SMV	4.7mΩ	±0.5

- Standard Resistance E-06 Series
- Taping Standard Quantity

SMV: 1500pcs
SMR: 1500pcs