High Power Precision Resistors [Preliminary]

Up to 10Watt
Tolerance : ±0.1%
Low inductance <5mH (1MHz)
4-Terminal connection
High power low resistance values and high precision. Low Temperature coefficient.
Excellent load life stability.

GENERAL SPECIFICATIONS

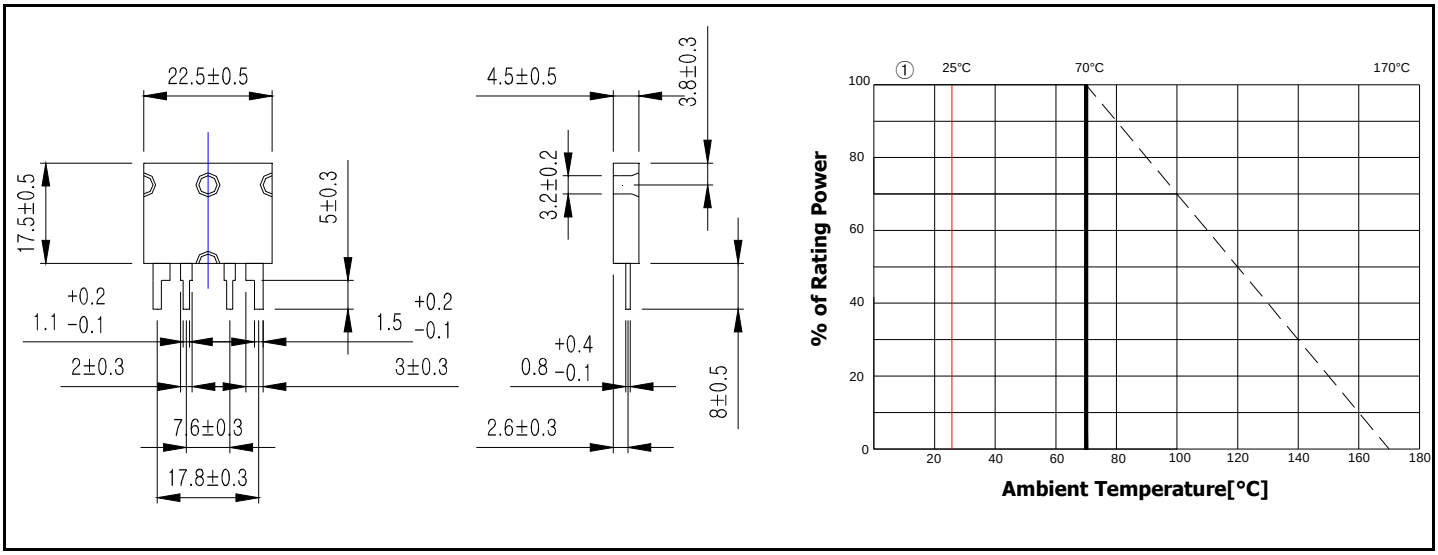
Model	Rated Power @P70C	Resistance (mΩ)	Tolerance	TCR(ppm/℃)	Operating Temp.[℃]
RMF	10	0.5 ~ 0.9	± 1% ± 2% ± 5%	C : ± 5 L : ± 10 M : ±15 P : ±20 Q : ±30	-65℃ ~ +170℃
		1 ~ 10	± 0.5% ± 1% ± 2% ± 5%		
		11 ~ 50 *51~200	± 0.1% ± 0.5% ± 1% ± 2% ± 5%		

*** 2.5 x Rated Power for 10 Sec**

CHARACTERISTICS

Test		Condition
Temperature Cycling	±0.5%	1000 Cycles (-55°C to +150°C)
ESD Test	±0.5%	1) Direct Contact (DC) : ± 6KV 2) Air discharge (AD) : ±12KV, ±16KV, ±25KV,
High Temp. Exposure	±0.5%	100Hrs. @T170°C Unpowered
Moisture Resistance	±0.5%	T=25Hrs/cycle. Note : Step 7a & 7b not required
Biased Humidity	±0.5%	1000Hrs. 85°C /85% RH. Notes: Specfied conditions : 10 of power
Operational Life	±0.5%	Condition D steady state TA=125°C at rated power.
Thermal shock	±0.5%	1000 X (-55°C to +150°C)
Solderability	95% coverage MIN.	235°C±5°C, 2s±0.5s
Resistance to Soldering Heat	±0.5%	260°C±5°C, 10s±1s
Short Time Overload	±0.5%	5×Rated power for 5 s * 2.5×Rated power for 10 s
Shock	±0.5%	100g , 6ms , Orientation & Shock time: ±X, ±Y, ±Z; 3 times each orientation, total 18 times.
Vibration	±0.5%	5 g's for 20 min, 12 cycles each of 3 orientations. Note: Use 8"X5" PCB .031" thick 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz.

DIMENSION & DERATING CURVE



ORDERING PROCEDURE EXAMPLE

RMF	R005	D	P
Model#	Resistance	Tolerance	T.C.R (ppm/℃)
	R005 = 5mΩ R100 = 100mΩ 0m50 = 0.5mΩ 2m20 = 2.2mΩ	J = ± 5.0% G = ± 2.0% F = ± 1.0% D = ± 0.5% B = ± 0.1%	C = ± 5 L = ± 10 M = ± 15 P = ± 20 Q = ± 30