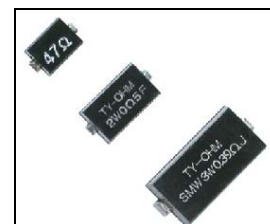


SMW

Power Wire Wound Chip Resistors

■ Application

- use in consumer electronics
- use in computers
- use in telecommunications
- use in control instruments...etc.



■ CHARACTERISTICS

Temperature Coefficient		±2000ppm/°C
Rated Load	within.±[1%]	rated power for 30 minutes continuously normal condition for 30 minutes
Short Time Over Load	within.±[1%]	5 x Power rating 5sec. normal condition for 30 minutes
Insulation Resistance		DC 500V, 10000MΩ min.
Voltage Withstanding	no damage	AC 500V for 1 minute
Load Life	within.±[2%]	70°C, 1.5hours ON, 0.5hour OFF for 1000 ^{+48/-0} hours in total cooling for 1 hour
Moisture Load Life	within.±[2%]	40±2°C, humidity of 90~95%, 1.5hours and cut off for 0.5hour The similar cycle will be repeated for 500 ^{+24/-0} hours in total cooling for one hour at room temp.
Solderability	At least 95% solder coverage	235±5°C for 10±1seconds cooling for one hour at room temp.
Soldering Heat	within.±[2%]	at 270±5°C for 10±1 seconds cooling for one hour at room temp.

* T.C(ppm/°C) = [(R2-R1)/R1] X [1/(T2-T1) X 10⁶ - R1 : resistance value at reference temperature

- R2 : resistance value at test temp.

- T1 : reference temp.(usu. 25°C)

- T2 : test temp. (about 75°C)

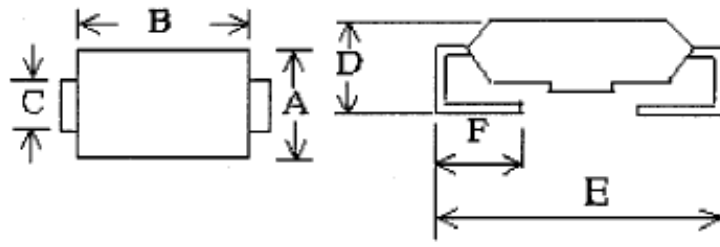
■ GENERAL SPECIFICATIONS

Model	Power Rating at 100°C [Watts]	Resistance Range [Ω]	Operating Temperature Range [°C]	Rated Voltage
SMW 2W	2	0.1 ~ 200	-55°C ~ 200°C	$E = \sqrt{P \cdot R}$ (E : rated voltage [V]) (P : rated power[W]) (R : total nominal resistance[Ω])
SMW 3W	3	0.1 ~ 300		
SMW 5W	5	0.1 ~ 500		

■ STRUCTURE

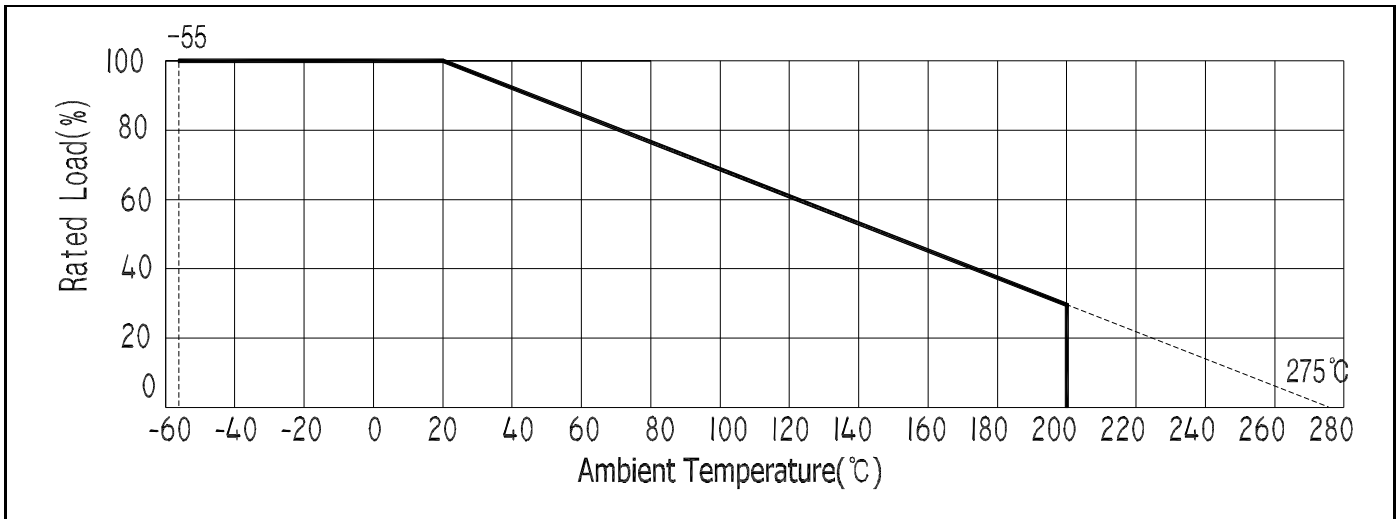
Material	Terminal is to be firmly connected with resistors element, both electrically and mechanically, and allow easy soldering.
Coating	Flameproof UL94V0 molded package, resistant to heat, humidity & insulation.
Marking	Marking is made on the surface with Rated Wattage, Nominal Resistance and Tolerance.

■ DIMENSIONS



Model	Dimensions (mm)					
	A±0.3	B±0.3	C±0.3	D±0.3	E max.	F±0.3
SMW 2W	4	6.7	1.4	3.55	7.9	1.5
SMW 3W	5.5	10.5	1.7	5	12	2.3
SMW 5W	7.3	13.5	1.7	6.8	17	2.5

■ DERATING CURVE



■ ORDERING PROCEDURE EXAMPLE

