

SMW, SMF

Power Wirewound Chip Resistors / Power Metal Film Chip Resistors:

These resistors are housed in a UL94V0 flameproof molded package, ensuring resistance to heat, humidity, and excellent insulation properties. They feature a special design for seamless automatic surface mounting, offering outstanding mechanical strength and electrical stability. Their use results in reduced assembly costs. These resistors are versatile and find applications in consumer electronics, computers, telecommunications, control instruments, and more.



GENERAL SPECIFICATIONS

Model	Dimensions [mm]						Resistance Range	Max. Working Voltage	Tolerance [%]
	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	0.1Ω~200Ω	E=√PR	F [±1%] J [±5%]
SMW 3W	5.5	10.5	1.7	5	12	2.3	0.1Ω~300Ω		
SMW 5W	7.3	13.5	1.7	6.8	17	2.5	0.1Ω~680Ω		
SMF 2W	4	6.7	1.4	3.55	7.9	1.5	10Ω~2MΩ	300V	
SMF 3W	5.5	10.5	1.7	5	12	2.3	10Ω~2MΩ	500V	
SMF 5W	7.3	13.5	1.7	6.8	17	2.5	10Ω~2MΩ	500V	



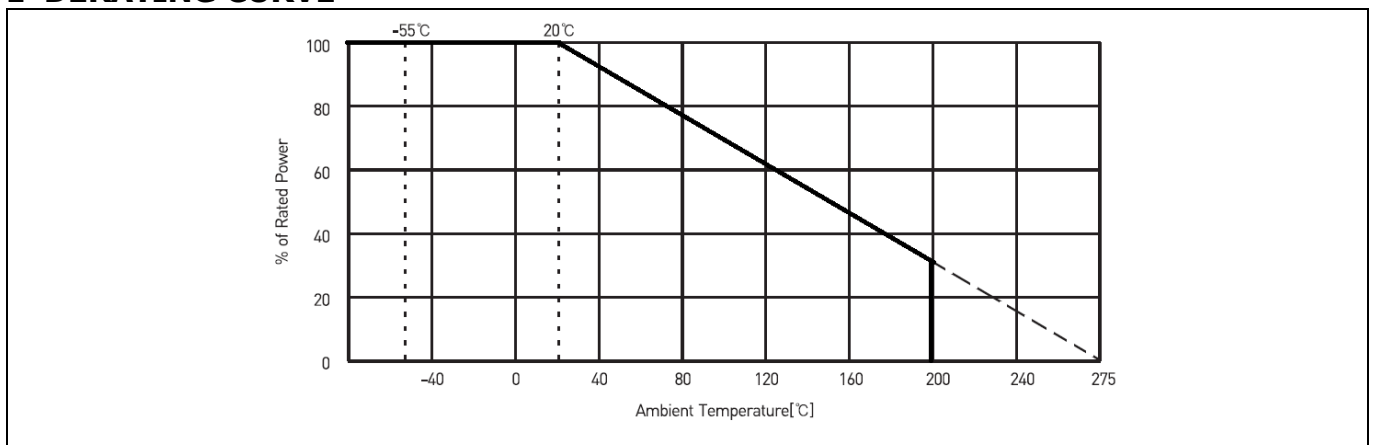
* Please enquire if you require a non-standard ohmic value.

CHARACTERISTICS

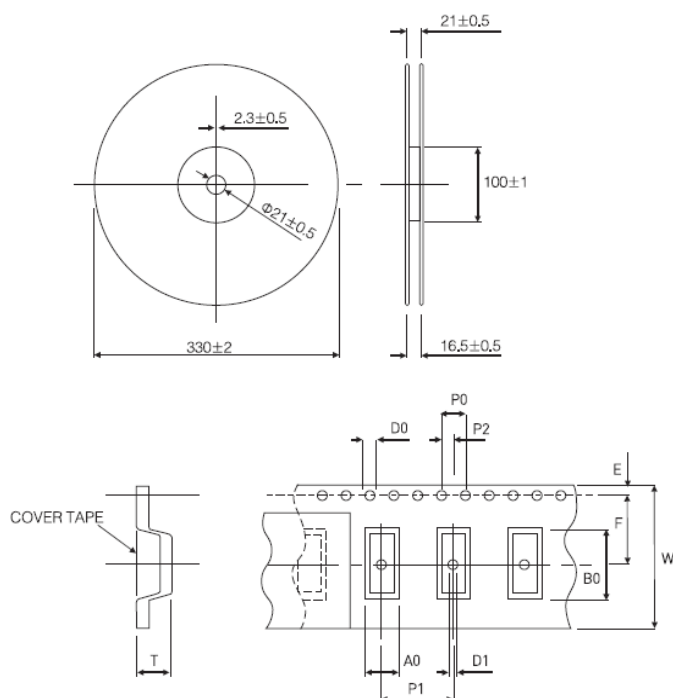
Values in [] mean change in Ω after test

Characteristic	SMW	SMF	Notes
Temperature Range			-55 °C ~ +200°C
Temperature Coefficient			SMW : Max ±200ppm/°C SMF : Max ±100ppm/°C
Short Time Overload	±1.0%	±0.5%	5 X Power rating , 5 Seconds
Dielectric Withstanding Voltage			AC500V for 1 minute
Insulation Resistance	DC500V	DC500V	Min. 10,000MΩ
Load Life	±2.0%	±1.0%	Power rating 1.5hours on, 0.5hour off, 1000hours(at 20 °C oven)
Moisture Load Life	±2.0%	±1.0%	40°C ±2 / RH90~95%, Power rating 1.5hours on, 0.5hour off, 500Hours

DERATING CURVE



■ TAPE & REEL



Rated Power	B0±0.2	A0±0.2	P1±0.1	P2±0.1	P0±0.1	D0±0.1	E±0.1	F±0.1	W±0.3	D1±0.1	T±0.1	pcs/reel
1WL	8	4.3	8	2	4	1.5	1.75	7.5	16	1.5	4.15	2000
2WL	11.8	5.8	12	2	4	1.5	1.75	11.5	24	1.5	5.8	1000
3WL	17.5	7.8	16	2	4	1.5	1.75	14.2	32	1.5	7.5	500

■ ORDERING PROCEDURE EXAMPLE

Ordering Example	Model	Resistance	Tolerance
SMW 2W 2000F	SMW 2W	200Ω	F [±1%]
SMW 3W 3000J	SMW 3W	300Ω	J [±5%]
SMW 5W 5000F	SMW 5W	500Ω	F [±1%]
SMF 2W 1000F	SMF 2W	100Ω	F [±1%]
SMF 3W 1001J	SMF 3W	1KΩ	J [±5%]
SMF 5W 1004F	SMF 5W	1MΩ	F [±1%]