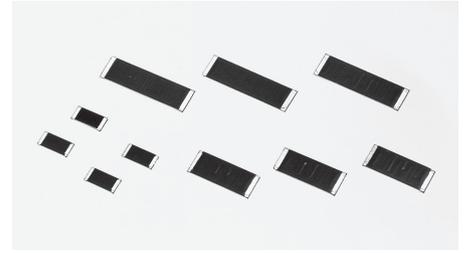


SM TYPE

Surface Mount Precision Plate Resistors



The SM type precision plate resistors are designed for surface mounting on board by soldering or the other.

FEATURES

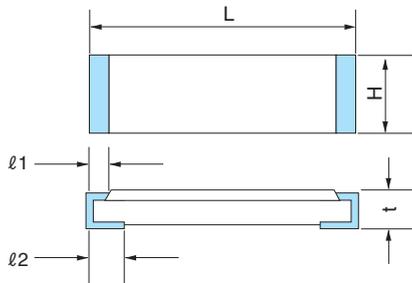
- Small temperature coefficient.
- Excellent moisture resistance.
- Excellent long-term stability.
- Useful as a high voltage load.

CHARACTERISTICS

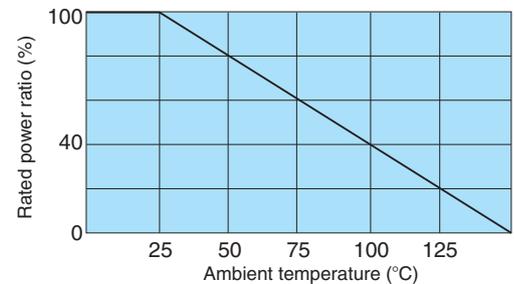
Item	Characteristics			Test method
	SM2	SM5~SM20		
		≤100MΩ	100MΩ<	
Operating temperature range	-55°C~+150°C			
Long-term stability	±0.5%	±0.1%	±1%	At normal temperature and humidity for 10,000hr.
Moisture resistance	±0.5%	±0.1%	±1%	40°C, 90 ~ 95%RH, 1,000hr.
Heat cycle	±0.5%	±0.1%	±1%	-55°C+150°C 5cycles
Resistance to soldering heat	±0.5%	±0.1%	±1%	260°C±5°C 10sec.
Temperature coefficient	♂A B C D ±10 ±25 ±50 ±100 ppm/°C			Measured at 25°C and 75°C

PRODUCTION DATA

Shape



Derating Curve



Type	Characteristics		Range of resistance values		Rated power (W)	Max. working voltage DC(kV)	Voltage※ coefficient (ppm/V)	Dimensions (mm)					Resistance tolerance (%)
	Symbol	Temperature coefficient (ppm/°C)	Min. (MΩ)	Max. (MΩ)				L	H	t	ℓ1	ℓ2	
SM2	D	±100	0.5	50	0.125	0.3	0~-100	3.2 ±0.2	1.6 ±0.2	0.55 ±0.1	0.5 ±0.3	0.5 ±0.3	±1(F) ±2(G) ±5(J)
SM5	B	±25	0.5	20	0.5	1.0	0~-20	6.4 ±0.2	3.2 ±0.2	0.55 ±0.1	0.5 ±0.3	0.5 ±0.3	±0.1(B) ±0.25(C) ±0.5(D) ≤100MΩ
	C	±50	0.5	20									
	D	±100	0.5	1000									
SM10	B	±25	1	100	1.0	2.5	0~-5	12.8 ±0.2	5.0 ±0.2	0.8 ±0.2	1.0 ±0.3	2.0 ±0.2	
	C	±50	1	100									
	D	±100	1	1000									
SM15	B	±25	1	100	1.5	3.5	0~-2	18.0 ±0.2	5.0 ±0.2	0.8 ±0.2	1.0 ±0.3	2.0 ±0.2	
	C	±50	1	100									
	D	±100	1	1000									
SM20	B	±25	1	100	2.0	5.0	0~-1	25.5 ±0.2	5.0 ±0.2	0.8 ±0.2	1.0 ±0.3	2.0 ±0.2	
	C	±50	1	100									
	D	±100	1	1000									

NOTICE: ※ Also consult your local dealer for the availability of resistors with a temperature coefficient of "A" characteristic (±10ppm/°C).
 ※ The voltage coefficient are measured at rated voltage and 1/10 rated voltage. (SM2 type are measured at DC5V and DC15V).