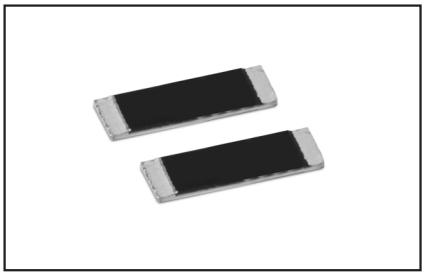
Surface Mount Precision Plate Resistors

The SM type precision plate resistors are designed for surface mounting on boards by soldering. Small temperature coefficient, excellent moisture resistance, excellent long -term stability and useful as a high voltage load.



GENERAL SPECIFICATIONS

Model	Rated Power [W]	Maximum Working Voltage DC [kV]	Voltage Coefficient [ppm/V]	Resistance Range[MΩ]			Resistance Tolerance [%]
				B (±25ppm/℃)	C (±50ppm/℃)	D (±100ppm/℃)	
SM2	0.125	0.3	<100	-	-	0.5 ~ 50	F[±1], G[±2], J[±5]
SM5	0.5	1.0	<20	0.5 ~10	0.5 ~ 10	0.5 ~ 1000	* ≤100MΩ
SM10	1.0	2.5	<5	1 ~ 100	1 ~ 100	1 ~ 1000	B[±0.1], C[±0.25], D[±0.5]
SM15	1.5	3.5	<2	-	-	1 ~ 1000	* ≤1GΩ
SM20	2.0	5.0	<1			1 ~ 1000	F[±1], G[±2], J[±5], K[±10]

*The voltage coefficient are measured at rated voltage and 1/10 rated voltage.

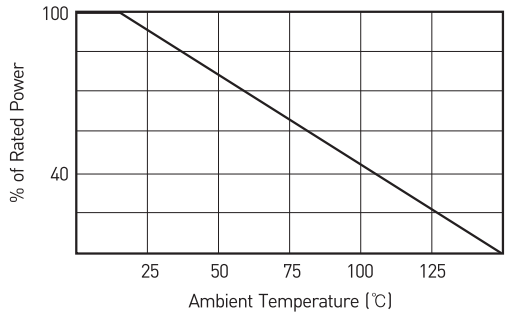
CHARACTERISTICS

Values in [ ] mean change in Ω after test

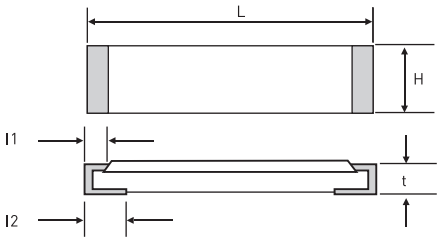
Operation Temperature Range		-55℃ ~ +150℃
Temperature Coefficient [ppm/℃]	*A (±10) / B (±25) / C (±50) / D (±100)	Measured at 25℃ and 75℃
Long-Term Stability	±[0.1%+0.05Ω]	At normal temperature and humidity for 1000hours
Moisture Resistance	±[0.1%+0.05Ω]	40℃, 90~95% RH, 1000hours
Heat Cycle	±[0.1%+0.05Ω]	-55℃~+150℃, 5cycles
Resistance to Soldering Heat	±[0.1%+0.05Ω]	260±5℃, 10seconds

*Also consult your local dealer for the availability of resistors with a temperature coefficient of 'A' characteristic (±10ppm/℃)

DERATING CURVE



SHAPE



DIMENSIONS [mm]

Model	L	H	t	l1	l2
SM2	3.2±0.4	1.6±0.4	0.55±0.2	0.5±0.4	0.5±0.4
SM5	6.4±0.4	3.2±0.4			
SM10	12.8±0.4	5±0.4	0.8±0.3	1±0.4	2±0.4
SM15	18±0.4				
SM20	25.5±0.4				

Tel: 82-32-817-4325 Fax: 82-32-817-4329