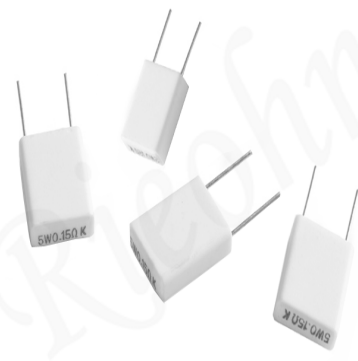


# Ceramic Metal Plate Resistors

## INTRODUCTION

The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistances as well as self-extinguishing capabilities. They will withstand the most rigorous loading test.

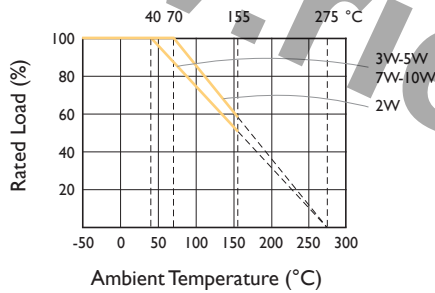
As resistors in radio and television receivers, the hazardous conditions of smoking and redheat can be completely prevented by the proper choice of power resistors.



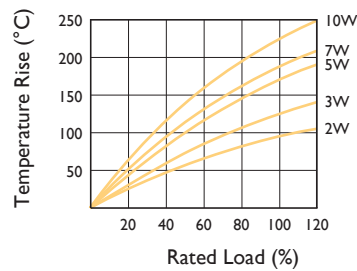
## FEATURES

Power Rating	2W, 3W, 5W, 7W, 10W
Resistance Tolerance	±5%, ±10%
T.C.R.	±250ppm/°C

## DERATING CURVE

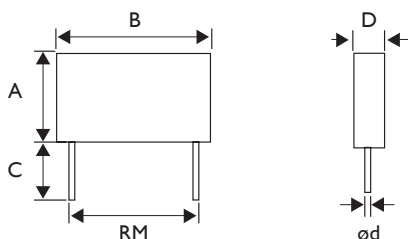


## TEMPERATURE RISE



## DIMENSIONS

Unit: mm



STYLE	DIMENSION					
	A	B	C	D	ØD	RM
NORMAL						
SLR200	8±1	13±1	3.5±1	5±1	0.6±0.05	9±1
SLR300	13±1	13±1	3.5±1	5±1	0.6±0.05	8±1
SLR500	18±1	14±1	3.5±1	5±1	0.6±0.05	10±1
SLR700	18±1	26±1	3.5±1	5±1	0.8±0.05	20±1
SLR10A	20±1	26±1	3.5±1	5±1	0.8±0.05	20±1

## ELECTRICAL CHARACTERISTICS

STYLE	SLR200	SLR300	SLR500	SLR700	SLR10A
Power Rating at 70°C	2W	3W	5W	7W	10W
Maximum Working Voltage	250V	350V		500V	
Maximum Overload Voltage	500V	700V		1,000V	
Dielectric Withstanding Voltage	500V	700V		1,000V	
Resistance range	0.10 Ω - 0.68 Ω	0.05 Ω - 1 Ω	0.05 Ω - 3.3 Ω		
Operating Temp. Range	-55°C to +155°C				
Temperature Coefficient	±250ppm/°C				

Note: Special value is available on request

## ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	JIS-C-5202 5.5	2.5 times RCWV for 5 Sec.	±2.0%+0.05 Ω
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 Sec.	By type
Temperature Coefficient	JIS-C-5202 5.2	-55°C to +155°C	By type
Insulation Resistance	JIS-C-5202 5.6	in V-Block	>1,000M Ω
Solderability	JIS-C-5202 6.5	260±5°C for 5±0.5 Sec.	95% Min. coverage
Resistance to Solvent	JIS-C-5202 6.9	IPA for 1 Min. with ultrasonic	No deterioration of coatings and markings
Terminal Strength	JIS-C-5202 6.1	Direct load for 10 Sec. in the direction of the terminal leads	≥2.5kg (24.5N)
Pulse Overload	JIS-C-5202 5.8	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	±2.0%+0.05 Ω
Load Life in Humidity	JIS-C-5202 7.9	40±2°C, 90-95% RH at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)	±5.0%+0.05 Ω
Load Life	JIS-C-5202 7.10	70°C at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)	±5.0%+0.05 Ω
Temperature Cycling	JIS-C-5202 7.4	-55°C ⇌ Room Temp. ⇌ +155°C ⇌ Room Temp. (5 cycles)	±2.0%+0.05 Ω
Resistance to Soldering Heat	JIS-C-5202 6.4	350±10°C for 3±0.5 Sec.	±1.0%+0.05 Ω

Note: Rated Continuous Working Voltage (RCWV) =  $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$