## **Cement Resistors**

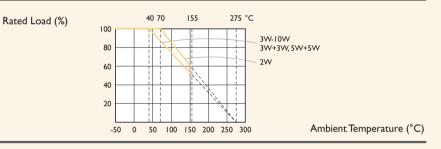


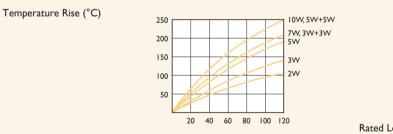
The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test.

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

# Low Ohmic Metal Plate Type Normal Style [SLR Series]

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





Rated Load (%)

Unit: mm

STYLE	DIMENSION						
Normal	A	В	С	D	ød	RM	
SLR200	8±1	3±	3.5±1	5±1	0.6±0.05	9±1	
SLR300	3±	3±	3.5±1	5±1	0.6±0.05	9±1	
SLR500	18±1	4±	3.5±1	5±1	0.8±0.05	0±	
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	
SLR303	18±1	26±1	2±	5±1	0.8±0.05	0±	
SLR505	20±1	26±1	2±	5±1	0.8±0.05	0±	

Note:		
Note.		

## **ELECTRICAL CHARACTERISTICS**

STYLE	SLR200	SLR300	SLR500	SLR700	SLRIOA	SLR303	SLR505
Power Rating at 40°C		3W	5W	7W	10W	3W+3W	5W+5W
Power Rating at 70°C	2W						
Maximum Working Voltage	√P×R	_					
Dielectric Withstanding Voltage	500V	700V		1,000V		700V	
Resistance range	0.01Ω - 0.68Ω	0.0   Ω -  Ω	0.0 Ι Ω - 3.3Ω			${(0.1\Omega+0.1\Omega) -} \\ (0.5\Omega+0.5\Omega)$	(0,   Ω+0,   Ω) - ( .8Ω+ .8Ω)
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	IEC 60115-1 4.13	1 4.13 2.5 times RCWV for 5 sec. (Not more than maximum Overload Voltage)			
Voltage Proof on Insulation	IEC 60115-1 4.7	In V-Block for 60 sec., test voltage as above table	No Breakdown		
Temperature Coefficient	IEC 60115-1 4.8	Between -40°C to +155°C	By type		
Insulation Resistance	IEC 60115-1 4.6	in V-block for 60 Sec.	>I,000MΩ		
Solderability	IEC 60115-1 4.17	245±5°C for 3±0.5 Sec.	95% Min. coverage		
Solvent Resistance of Marking	IEC 60115-1 4.30	IPA for 5±0,5 Min, with ultrasonic	No deterioration of coatings and markings		
Robustness of Terminations	IEC 60115-1 4.16	Direct load for 10 Sec. in the direction of the terminal leads	≥2.5kg (24.5N)		
Periodic-pulse Overload	IEC 60115-1 4.39	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	±2.0%+0.05Ω		
Damp Heat Steady State	IEC 60115-1 4.24	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCWV	±5.0%+0.1Ω		
Endurance at 70°C	IEC 60115-1 4.25	70±2°C at RCWV (or Umax., Whichever less) for 1,000 Hr. (1.5Hr.on, 0.5Hr. Off)	±5.0%+0.1Ω		
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇔ Room Temp. ⇔ +155°C ⇔ Room Temp. (5 cycles)	±2.0%+0.05Ω		
Resistance to Soldering Heat	IEC 60115-1 4.18	260±3°C for 10±1 Sec., immersed to a point 3±0.5mm from the body	±1.0%+0.05Ω		

Note: RCWV(Rated Continuous Working Voltage) =  $\sqrt{Power Rating \times Resistance Value}$  or Max. working voltage listed above, whichever less.

71