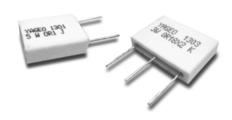


Low Ohmic Metal Plate Type

Normal Style [SLR Series]



INTRODUCTION

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.

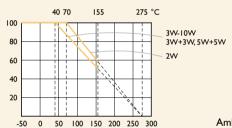
As resistors in radio and television receivers, hazardous conditions such as smoking and redheat can be completely prevented by the proper choice of power resistors.

FEATURES

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

DERATING CURVE

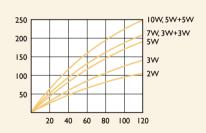
Rated Load (%)



Ambient Temperature (°C)

TEMPERATURE RISE

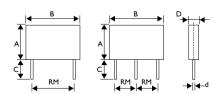
Temperature Rise (°C)



Rated Load (%)

DIMENSIONS

Unit: mm



STYLE	DIMEN	DIMENSION							
Normal	A	В	С	D	ød	RM			
SLR200	8±1	13±1	3.5±1	5±1	0.06±0.05	9±1			
SLR300	13±1	13±1	3.5±1	5±1	0.06±0.05	9±1			
SLR500	18±1	 14±	3.5±1	5±1	0.06±0.05	10±1			
SLR700	18±1	26±1	3.5±1	5±1	0.08±0.05	20±1			
SLR10A	20±1	26±1	3.5±1	5±1	0.08±0.05	20±1			
SLR303	18±1	26±1	12±1	5±1	0.08±0.05	10±1			
SLR505	20±1	26±1	12±1	5±1	0.08±0.05	10±1			

Note:			-

ELECTRICAL CHARACTERISTICS

STYLE	SLR200	SLR300	SLR500	SLR700	SLR10A	SLR303	SLR505
Power Rating at 40°C		3W	5W	7W	10W	3W+3W	5W+5W
Power Rating at 70°C	2W						
Maximum Working Voltage	√PxR	_					
Dielectric Withstanding Voltage	500V	700V		1,000V		700V	
Resistance range	0.10Ω - 0.68Ω	0,0 Ω - Ω	0.01Ω - 3.3Ω			$\frac{(0.1\Omega+0.1\Omega)}{(0.5\Omega+0.5\Omega)}$	(0. Ω+0. Ω) - (1.8Ω+1.8Ω)
Operating Temp. Range	-55°C to +155°	-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	2.5 times RCWV for 5 Sec.	±2.0%+0.05Ω
Voltage Proof on Insulation	IEC 60115-1 4.7	in V-block for 60 Sec., test voltage by type	By type
Temperature Coefficient	IEC 60115-1 4.8	-55°C to +155°C	By type
Insulation Resistance	IEC 60115-1 4.6	in V-block for 60 Sec.	>1,000ΜΩ
Solderability	IEC 60115-1 4.17	235±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 for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. 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 I0±1 Sec., immersed to a point 3±0.5mm from the body	±1.0%+0.05Ω

EXPLANATIONS OF ORDERING CODE

Code I - 3 **Series Name**

See Index

Code 4 - 6 **Power Rating**

-05 = ød0.5mm-06 = ød0.6mm-07 = ød0.7mm-08 = ød0.8mm-10 = ød1.0mm-14 = ød1.4mm-12 = 1/6W-25 = 1/4W25S = 1/4WS-50 = 1/2W50S = 1/2WS100 = 1 WIWS = IWS200 = 2W2WS = 2WS204 = 0.4W207 = 0.6W300 = 3W3WS = 3WS3WM = 3WM400 = 4W500 = 5W5WS = 5WS5SS = 5WSS700 = 7W7WS = 7WS10A = 10W20A = 20W

Code 7 **Tolerance** $P = \pm 0.02 \%$ $A = \pm 0.05 \%$

 $K = \pm 10 \%$

- = Base on Spec

B = +0.1 %C = +0.25% $D = \pm 0.5 \%$ F = ±1 % $G = \pm 2 \%$ $| = \pm 5 \%$

Code 8 **Packing Style**

T = Tape/BoxR = Tape/Reel B = Bulk

Code 9

Temperature Coefficient of Resistance - = Base on Spec.

 $A = \pm 5 \text{ ppm/}^{\circ}\text{C}$ $B = \pm 10 \text{ ppm/}^{\circ}\text{C}$ $C = \pm 15 \text{ ppm/}^{\circ}C$ $S = \pm 20ppm/^{\circ}C$

 $D = \pm 25 \text{ ppm/}^{\circ}C$ $E = \pm 50 \text{ ppm/}^{\circ}\text{C}$ $F = \pm 100 \text{ ppm/°C}$

 $G = \pm 200 \text{ ppm/}^{\circ}C$ $H = \pm 250 \text{ ppm/°C}$ $I = \pm 300 \text{ ppm/°C}$

 $I = \pm 350 \text{ ppm/°C}$

Code 10 - 12

Forming Type 26 - 26mm

52-

73 - = 73 mm81 - 81 mm

52- = 52.4mm

91 - = 91 mmF = FType

FK = FKType

FKK = FKK Type FFK = F-form Kink

M = M-Type Forming MB = M-form W/flat MT = MT Type Forming

MR = MRTypeAV = AVIsertPN = PANAsert $\overline{100}R$

Code 13 - 17 Resistance Value

0RI = 0.1100R = 10010K = 10.00010M = 10,000,000

EXCEPTION:

• Cement series:

<Code 8>: Special packing style code

30A = 30W40A = 40W50A = 50W10S = 10WS15A = 15W25A = 25W10B = 100W 25B = 250W

B: Bulk with wirewound or metal oxide sub-assembly for resistance value

W: Bulk with ceramic based wirewound sub-assembly for resistance value

M: Bulk with metal oxide sub-assembly for resistance value

F: Bulk with Fiberglass based wirewound sub-assembly for resistance value

<Code 10-12>: Without forming code

Example: SQP500|B-I0R

• JPW series:

<Code 13-17>: without resistance value code

Example: **JPW-06-T-52-**