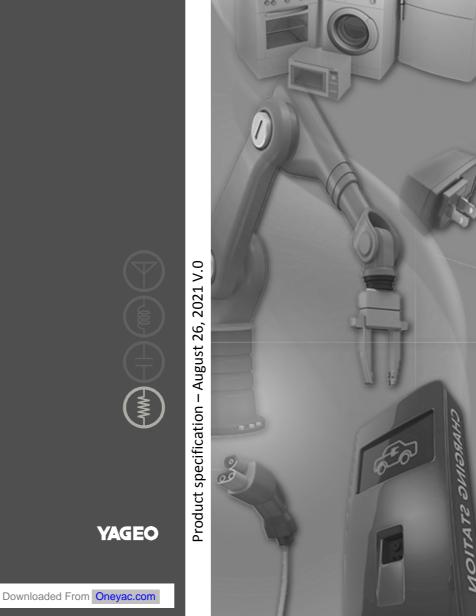


DATA SHEET

CEMENT RESISTORS

Low Ohmic, Metal Plate Vertical Mount **SLR Series**

2W to 10W RoHS compliant & Halogen Free





APPLICATIONS

- · Home appliance
- Consumer

FEATURES

- · Ultra miniature size
- · Current detecting resistors
- · Flameproof cement case
- RoHS compliant and halogen free

ORDERING INFORMATION

Part number of the cement resistor is identified by the series, power rating, tolerance, packing, temperature coefficient, resistance value and type code.

PART NUMBER

<u>SLR</u>	<u>500</u>	<u>J</u>	<u>B</u>	=	<u>0R035</u>	<u>U</u>
(1)	(2)	(3)	(4)	(5)	(6)	$(\overline{7})$

(1) SERIES

SLR Series

(2) POWER RATING

200 = 2W	700 = 7W
300 = 3W	10A = 10W
500 = 5W	

(3) TOLERANCE

$J = \pm 5\%$ $K = \pm 10\%$

(4) PACKAGING

B = Bulk

(5) TEMPERATURE COEFFICIENT OF RESISTANCE

- = Based on spec.

(6) RESISTANCE VALUE

Example:

 $0R035 = 0.035\Omega$, $0R1 = 0.1\Omega$, $1R = 1\Omega$

(7) TYPE CODE

Optional code for different type. .

Example:

Null = Standard type

 $E = SLR200 \& SLR300 / \psi d=0.8\pm0.05$ mm copper wire

U = SLR500 & SLR700 & SLR10A / ψ d=0.6±0.05mm copper wire

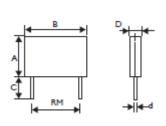
 $C = SLR200 \& SLR300 / \psi d = 0.8 \pm 0.05 mm CP- wire$

W = SLR500 & SLR700 & SLR10A / ψ d=0.6±0.05mm CP- wire



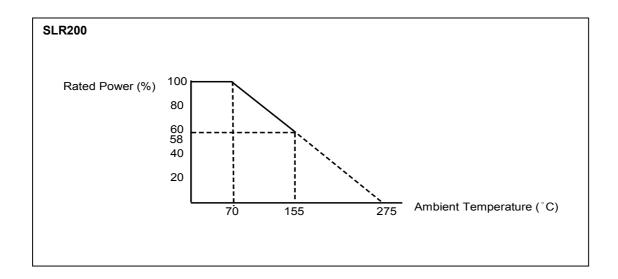
DIMENSIONS

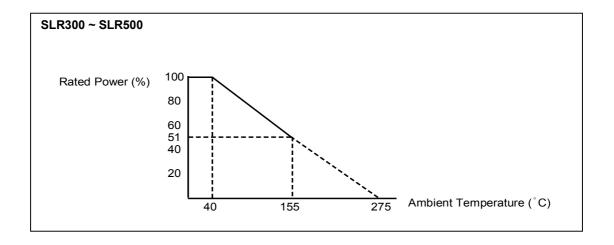
Unit: mm



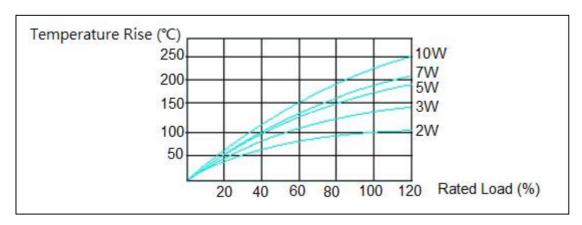
Normal	Α	В	С	D	ψd	RM
SLR200	8±1	13±1	3.5±1	5±1	0.60±0.05	9±1
SLR300	13±1	13±1	3.5±1	5±1	0.60±0.05	9±1
SLR500	18±1	14±1	3.5±1	5±1	0.80±0.05	10±1
SLR700	18±1	26±1	3.5±1	5±1	0.80±0.05	20±1
SLR10A	20±1	26±1	3.5±1	5±1	0.80±0.05	20±1

DERATING CURVE





TEMPERATURE CURVE



ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SLR200	SLR300	SLR500	SLR700	SLR10A
Power Rating at 70 °C	2W				
Power Rating at 40 °C		3W	5W	7W	10W
Voltage Proof on Insulation	500V	700V	700V	1000V	1000V
Resistance Range	0.1Ω ~ 0.68Ω	0.01Ω ~ 1Ω	0.01Ω ~ 3.3Ω	0.01Ω ~ 3.3Ω	0.01Ω ~ 3.3Ω
Maximum Working Voltage	<u>√(P X R)</u>				
Operating Temp. Range	- 55°C to +155°C				
Temperature Coefficient	±250ppm/°C				

Note: For resistance value out of above range is by request.

TABLE I MATERIALS OF LEAD WIRE

TYPE	Resistance Value		
SLR Series	≤0.05Ω	>0.05Ω	
OLIV OCHES	Copper Wire	CP Wire	

TEST AND REQUIRMENTS

TEST METHOD	PROCEDURE	APPRAISE
IEC 60115-1 4.13	2.5 times RCWV for 5 sec.(Not more than maximum overload voltage)	±2.0%+0.05Ω
IEC 60115-1 4.7	In V-Block for 60 sec. test voltage as above table	No Breakdown
IEC 60115-1 4.8	Between -55°C to +155°C	Ву Туре
IEC 60115-1 4.6	In V-Block for 60 sec.	>1,000MΩ
IEC 60115-1 4.17	245±5°C for 3±0.5 Sec.	95% Min. coverage
IEC 60115-1 4.30	IPA for 5±0.5 Min. with ultrasonic	No deterioration of coatings and markings
IEC 60115-1 4.16	Direct load for 10 Sec. in the direction of the terminal leads	≥2.5Kg(24.5N)D
IEC 60115-1 4.39	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec.off)	±2.0%+0.05Ω
IEC 60115-1 4.24	40±2°C,90-95% RH for 56 days, loaded with 0.1 times RCWV	±5.0%+0.05Ω
IEC 60115-1 4.25	70±2°C at RCWV(or Umax., whichever less) for 1,000 Hr.(1.5 Hr.on,0.5 Hr. off)	±5.0%+0.05Ω
IEC 60115-1 4.19	→ -55°C → Room Temp. → +155°C Room Temp.(5 cycles)	±2.0%+0.05Ω
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
	IEC 60115-1 4.13 IEC 60115-1 4.7 IEC 60115-1 4.8 IEC 60115-1 4.6 IEC 60115-1 4.17 IEC 60115-1 4.30 IEC 60115-1 4.16 IEC 60115-1 4.19 IEC 60115-1 4.24	IEC 60115-1 4.13 2.5 times RCWV for 5 sec.(Not more than maximum overload voltage) IEC 60115-1 4.7 In V-Block for 60 sec. test voltage as above table IEC 60115-1 4.8 Between -55°C to +155°C IEC 60115-1 4.6 In V-Block for 60 sec. IEC 60115-1 4.17 245±5°C for 3±0.5 Sec. IEC 60115-1 4.30 IPA for 5±0.5 Min. with ultrasonic IEC 60115-1 4.16 Direct load for 10 Sec. in the direction of the terminal leads IEC 60115-1 4.39 4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec.off) IEC 60115-1 4.24 40±2°C,90-95% RH for 56 days, loaded with 0.1 times RCWV IEC 60115-1 4.25 70±2°C at RCWV(or Umax., whichever less) for 1,000 Hr.(1.5 Hr.on,0.5 Hr. off) IEC 60115-1 4.19 → -55°C → Room Temp. → +155°C Room Temp. (5 cycles)

Note:

RCWV (Rated Continuous Working Voltage):

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

 $V=\sqrt{(P X R)}$

or max. working voltage whichever is less

Where

V=Continuous rated DC or

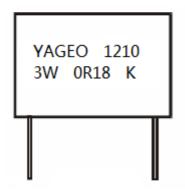
AC (rms) working voltage (V)

P=Rated power (W)

R=Resistance value (Ω)



MARKING



Example:

YAGEO	= Brand
1210	= Date code
3W	= Power rating
0R18	= Resistance
K	= Tolerance

Cement Resistors

SLR

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Aug.2, 2021	-	- First issue of this specification

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