

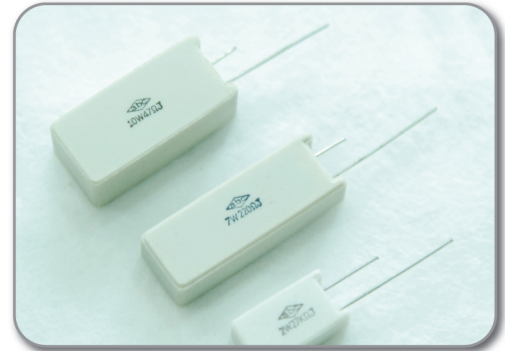
WRC series

Cement Resistor

Cement Resistors are plated with ceramic rod wire wound or metal oxide film on ceramic rod and adhere terminal then is facing in ceramic case with silicone Molding. Suitable high power circuit.

Feature

- Protective Characteristic of overload and inrush current
- Flame proof resistor in ceramic case
- Highly stable to heat and moisture (molding in ceramic case)
- Highly stable to overload voltage
- Fusible resistor is possible. (Put 'Thermal cutoff' into the product)
- Case Color : White
- Making : Marking on the case
- Available Type : RP, BP



Description

WRC	5W	RP	1K	J
Product Code	Power Rating	Shape	Nominal Resistance	Resistance Tolerance

1. RP-Type

Section		Type	Dimension (mm)					
Standard Type	Fusible Type		A	B	C	H	P	d
		WRC 2W RP	11.0±1.0	7.5±1.0	20.0±1.0	4.0±0.5	5.0±0.5	0.70±0.05
		WRC 3W RP	11.0±1.0	7.5±1.0	20.0±1.0	3.2±0.3 4.0±0.5	5.0±0.5	0.70±0.05
		WRC 5W RP	13.5±1.0	9.5±1.0	25.5±1.0	3.2±0.3 4.0±0.5	5.0±0.5	0.80±0.05
		WRC 7W RP	14.0±1.0	10.0±1.0	39.5±1.0	4.0±0.5	5.0±0.5	0.80±0.05
		WRC 10W RP	16.5±1.0	12.5±1.0	35.0±1.0	4.0±0.5	5.0±0.5	0.80±0.05

※Thermal cutoff Specification : 135°C +0°C,-5°C, 139°C +0°C,-5°C, 152°C +0°C,-5°C

※H side dimension according to customer specifications.

2. BP-Type

Section	Type	Dimension (mm)				
		L	l	W	H	d
	WRC 2W BP	17.5±1.5	27.0±3.0	6.4±1.5	6.4±1.5	0.70±0.05
	WRC 3W BP	22.0±1.5	25.0±3.0	8.0±1.5	8.0±1.5	0.70±0.05
	WRC 5W BP	22.0±1.5	25.0±3.0	9.5±1.5	9.5±1.5	0.80±0.05
	WRC 7W BP	35.0±1.5	25.0±3.0	9.5±1.5	9.5±1.5	0.80±0.05
	WRC 10W RP	48.0±1.5	25.0±3.0	9.5±1.5	9.5±1.5	0.80±0.05
	WRC 15W RP	48.0±1.5	25.0±3.0	12.5±1.5	12.5±1.5	0.80±0.05
	WRC 20W RP	63.0±1.5	25.0±3.0	12.5±1.5	12.5±1.5	0.80±0.05

※Specifications given herein are changeable under to discuss with user and maybe changed at anytime without prior notice.

Rating

(Wire wound form)

Type	Power Rating(W)	Max Working-Voltage(V)	Max Overload Voltage(V)	Dielectric Withstanding Voltage(V)	Operating Temp.(°C)	Resistance Range(Ω)	Resistance Tolerance (%)
WRC 2W	2	200	400	600	-55 ~ +155	0.1 ~ 200	F (±1%) G (±2%) J (±5%) K (±10%)
WRC 3W	3	250	500	600			
WRC 5W	5	350	700	600			
WRC 7W	7	500	1000	600			
WRC 10W	10	700	1400	600			
WRC 15W	15	-	-	600			
WRC 20W	20	-	-	600			
WRC 25W	25	-	-	600			

(Metal Oxide Film form)

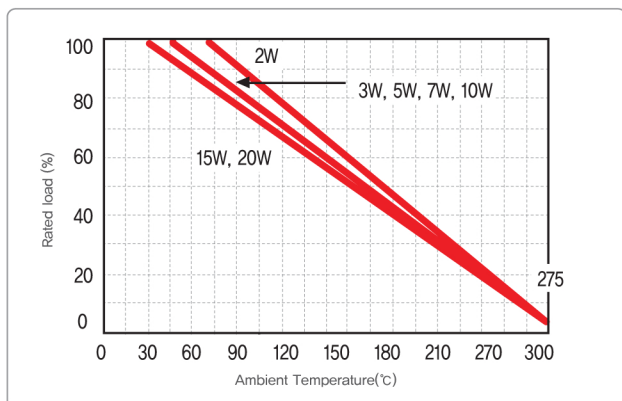
Type	Power Rating(W)	Max Working-Voltage(V)	Max Overload Voltage(V)	Dielectric Withstanding Voltage(V)	Operating Temp.(°C)	Resistance Range(Ω)	Resistance Tolerance (%)
WRC 2W	2	250	500	600	-55 ~ +155	200 ~ 100K	F (±1%) G (±2%) J (±5%) K (±10%)
WRC 3W	3	300	600	600			
WRC 5W	5	350	700	600			
WRC 7W	7	500	1000	600			
WRC 10W	10	700	1400	600			
WRC 15W	15	-	-	600			
WRC 20W	20	-	-	600			
WRC 25W	25	-	-	600			

* Case more than max resistance, user shall keep the manufacturing side and consultation

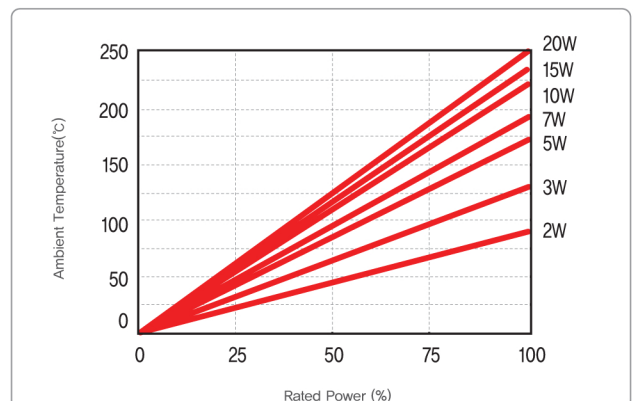
Performance

Test Items	Performance Requirements	Test Methods
Resistance	With specified tolerance	Measure resistance at 25°C
Temperature Coefficient Resistance	Over 20Ω : Within±260PPM/°C Under 20Ω : Within±400PPM/°C	+25°C / +125°C
Short Time Over Load	±2%	Rated voltage x 2.5 for 5sec Max overload voltage
Resistance Against Soldering Test	±1%	260±3°C, 2~2.5mm, 5±1sec measure resistance After 1hr at room temp
Load Life in Temperature	±5%	40±2°C, 90~95% RH, 1.5hr ON/0.5hr OFF, 120hr
Load Life in Moisture	±5%	70±2°C, 1.5hr ON/0.5hr OFF, 120hr

Derating Curve



Surface Temperature Rise



* Specifications given herein are changeable under to discuss with user and maybe changed at anytime without prior notice.