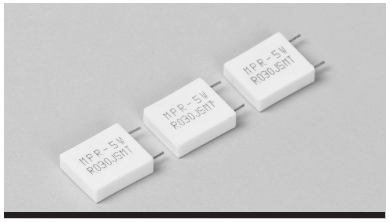
MPR Non Inductive Metal Plate Resistor

RoHS HF



MPR is non-inductive metal plate inserted into the ceramic case and finally sealed and insulated with inorganic fillers. It use for current sensing.

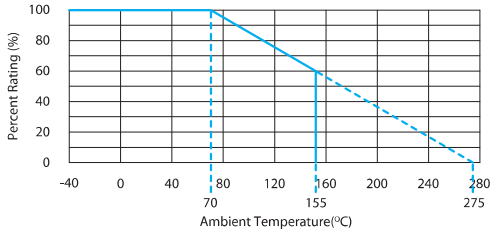
Features

-Power type resistor made with resistant element of metallic.
-Flame proof resistor in ceramic case.
-Excellent stability to heat and moisture.
-Automatic insertion is available.
-Product with lead free meet RoHS requirements.
-Low inductance.
-Space saving.

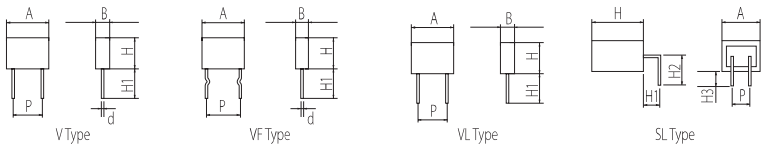
Type Designation

MPR	05	V	R015	J
Products Code	Power Rating	Style	Nominal Resistance	Resistance Tolerance
	02 : 2W 05 : 5W 10 : 10W	V-Type VF Type VL Type SL Type	R015 : 0.015Ω R150 : 0.15ΩT	G : ±2% J : ±5% K : ±10%

Derating Curve



Dimension & Rating



Power Rating	Resistance Range (Ω)	Resistance Tolerance (%)	Operating Temp. Range (℃)	Ambient Temperature (℃)	Style	Dimension (mm)							
						A	B	H	H1	H2	H3	P	Φd
2W	0.02~0.08	G : ±2 J : ±5 K : ±10	-40~ +200	70	V-	14.5±1.0	5.0±1.0	9.0±1.0	4.5±0.5	-	-	10.0±1.0	0.8±0.02
5W	0.01~1.0				V-	14.5±1.0	5.0±1.0	18.0±1.0	4.5±0.5	-	-	10.0±1.0	
					VF				13.5±1.0	4.5±0.5	-		
					VL				14.0±0.5	-	-		
					SL				3.0±0.5	6.25±0.5	3.4±0.4		
10W					V-	26.5±1.5	5.0±1.0	18.0±1.5	4.5±0.5	-	-	20.0±1.0	
					VF				13.5±1.0	4.5±0.5	-		

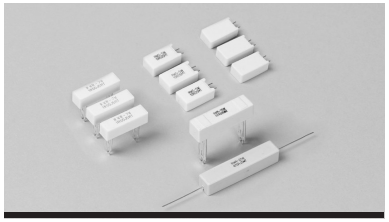
Performance

Test Items	Performance Requirements	Test Methods
Resistance	Within specified tolerance	Measure resistance at 25℃
T.C.R	Over 0.1Ω : Within±400 Under 0.1Ω : Within ±600	Rated power x 10 for 5sec
Short Time Overload	±[2%+0.1Ω]	+25℃/+125℃
Resistance Against Soldering Test	±[2%+0.05Ω]	260±5℃, 10±1sec measure resistance After 1hr at room temp
Load Life in Moisture	±[3%+0.1Ω]	40±2℃, 90~95%RH, 1.5hr ON/0.5hr OFF cycle, 1,000hr
Load Life in Temperature	±[3%+0.1Ω]	70±2℃, 1.5hr ON/0.5hr OFF cycle, 1,000hr

Specification given here in may be changed at any time without prior notice. Please confirm technical specifications before you order or use.

RWR / RWS / RSR

RoHS HF



Flame Proof Square Type Wire-Wound Resistor with Glass Core (RWR)

Flame Proof Square Type Wire-Wound Resistor with Ceramic Rod (RWS)

Flame Proof Square Type Metal Oxide Film Resistor (RSR)

RWR/RWS/RSR type resistor are developed for high thermal dissipation in a small volume. These types, having good thermal conduction, are mounted with inorganic materials. They are the most useful for power circuit of various electronic equipment.

Features

-Flame proof inorganic construction.
-Designed to utilize heat sink effect and designed small.
-Highly stable to heat and moisture.
-Excellent protective characteristic of inrush current.

Type Designation

RWR	05	V-	1R00	J
Products Code	Power Rating	Style	Nominal Resistance	Resistance Tolerance
	05 : 5W 07 : 7W 10 : 10W 15 : 15W 20 : 20W 25 : 25W	A- : Bulk Type V- : Vertical Type P- : Pin Type PD : Double Pin Type SP : Short Double Pin Type	R470 : 0.47Ω 1R00 : 1Ω 1K00 : 1KΩ	J : ±5% K : ±10%

Rating

Type	Max. Working Voltage (V)	Max. Overload Voltage (V)	Resistance Range (Ω)	Resistance Tolerance (%)	TCR (PPM/℃)	Operating Temp. Range (℃)	Ambient Temperature (℃)
RWR 03	√P×R	√P×R×10	0.24~100	J : ±5% K : ±10%	20Ω ≥ ±260 20Ω < ±400	-40~+200	70
RWR 05			0.47~100				
RWR 07			0.2~100				25
RWR 10							
RWR 15							
RWR 20							
RWR 25							
RWS 05	√P×R	√P×R×10	0.1~10		±400	-40~+155	70
RWS 07			0.1~150				
RWS 10			0.1~270				
RSR 05	350	700	10~100K		±350	-55~+155	
RSR 07	500	1,000	10~51K				

Performance

Test Items	Performance Requirements	Test Methods
Resistance	Within specified tolerance	Measure resistance at 25℃
Short Time Overload	Within ±[2% + 0.1Ω]	RSR : Rated voltage x2.5 for 5sec/ RW*: Rated power x 10 for 5sec
Resistance Against Soldering Test	±[2%+0.05Ω]	260±5℃, 10±1sec measure resistance After 1hr at room temp
Load Life in Moisture	RSR :±[5%+0.1Ω] RW* :±[3%+0.1Ω]	40±2℃, 90~95%RH, 1.5hr ON/0.5hr OFF cycle, 1,000hr
Load Life in Temperature	RSR :±[5%+0.1Ω] RW* :±[3%+0.1Ω]	70 ± 2℃,1.5hr ON/0.5hr OFF cycle,1,000hr

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