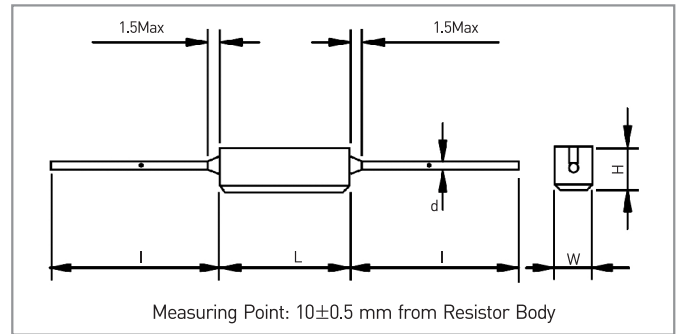
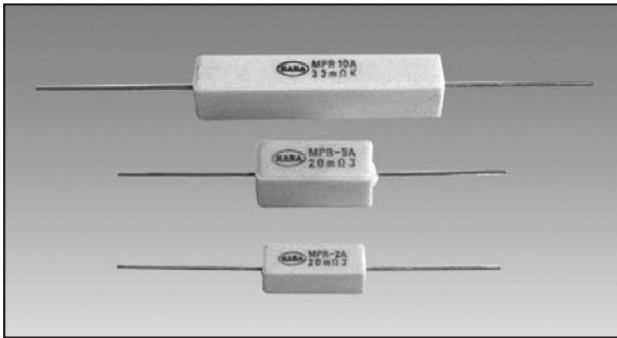


# Metal Plate Shunt Resistors (Axial Type)



## GENERAL SPECIFICATIONS AND DIMENSIONS [mm]

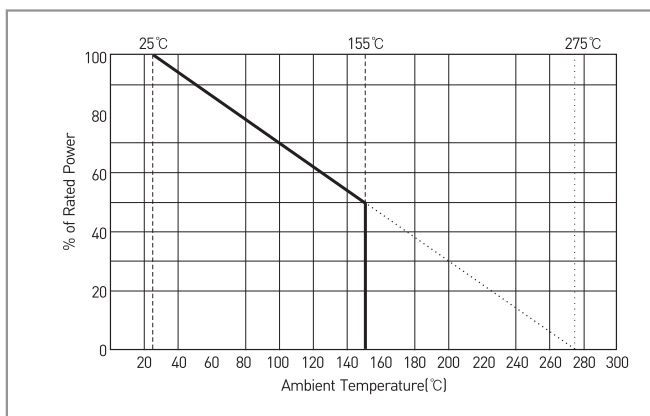
Model	Power Rating	Resistance Range	Maximum Current	Dimensions[mm]				
				L±1	W±1	H±1	I±Min.	d±0.02
MPR 1A	1W	0.005 ~ 0.03Ω	5A	13.0	6.5	7.0	35	0.8
MPR 2A	2W	0.005 ~ 0.05Ω	10A	18.0	6.5	7.0	35	0.8
MPR 3A	3W	0.005 ~ 0.10Ω	10A	22.5	8.0	8.5	35	0.8
MPR 5A	5W	0.005 ~ 0.10Ω	10A	21.5	9.5	9.5	35	0.8
MPR 7A	7W	0.01 ~ 0.120Ω	20A	34.5	9.5	9.5	35	0.8
MPR 10A	10W	0.01 ~ 0.300Ω	20A	48.5	9.5	9.5	35	1.0
MPR 15A	15W	0.01 ~ 0.300Ω	20A	48.5	12.5	12.5	35	1.0
MPR 20A	20W	0.01 ~ 0.400Ω	20A	62.5	12.5	12.5	35	1.0

## CHARACTERISTICS

Values in [ ] mean change in Ω after test

Temperature Range	-25°C ~ +155°C	
Insulation Resistance	DC 500V, 20MΩ minimum	
Dielectric Withstanding Strength	AC 1500V for 1minute; Maximum leakage current: 2mA	
Short Time Overload	±[2%+0.05Ω]	1W-3W: 5×Power rating 5seconds, 5W-20W: 10×Power rating 5seconds
Load Life	±[5%+0.05Ω]	Power rating 1.5 hours on, 30minutes off, 500 hours
Thermal Shock	±[2%+0.05Ω]	Power rating 30minutes, -40°C, 15minutes
Temperature Coefficient	±260 ppm/°C maximum	
Terminal Strength	4.5kgf	
Solderability	75% coverage minimum	230°C, 3 seconds

## DERATING CURVE



## ORDERING PROCEDURE EXAMPLE

MPR 1A   
 1W   
 0.03Ω   
 J

↓                      ↓                      ↓                      ↓  
**Model #**        **Wattage**        **Resistance**        **Tolerance**

If you require more detailed technical information, then please contact the RARA design team using the contact information at the bottom of every page.

