

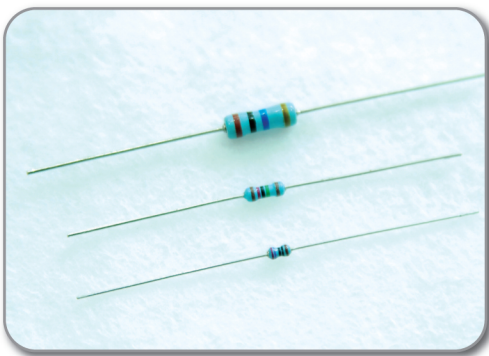
# MR series

## Metal film Resistors

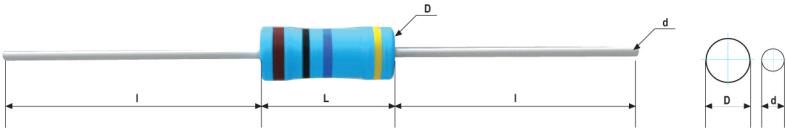
Metal film Resistors are plated with Metal film on ceramic rod and then is coated with Epoxy paint. Compact and can be used for parts that require a large capacity.

### Feature

- Highly stable against environmental conditions and overload
- High precision and low Temperature Coefficient Resistance metal film resistor
- Industry's lowest cost and widest selection
- Excellent Long-time stability
- Miniature size (MRS 1/2W, MRS 1/4W) result in 50% space saving
- Coating Color : Epoxy Resin
- MR (Standard) : Blue (1/8W~1/2W)
- MRS (Mini) : Green (1/4W~1/2W)
- Making : Color Coding
- Available Type : TB (Axial Tapping Type 52mm)  
(please refer to 'Reference 1. Type')



### Description



### Dimension

Type	Dimension (mm)			
	L	D	I	d
MR 1/8W	3.2±0.2	1.8±0.2	27.0±1.0	0.45±0.05
MRS 1/4W	3.2±0.2	1.8±0.2	27.0±1.0	0.45±0.05
MR 1/4W	6.0±0.2	2.4±0.2	26.0±1.0	0.58±0.05
MRS 1/2W	6.0±0.2	2.4±0.2	26.0±1.0	0.58±0.05
MR 1/2W	8.9±0.4	3.2±0.2	25.0±1.0	0.70±0.05

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

Rating

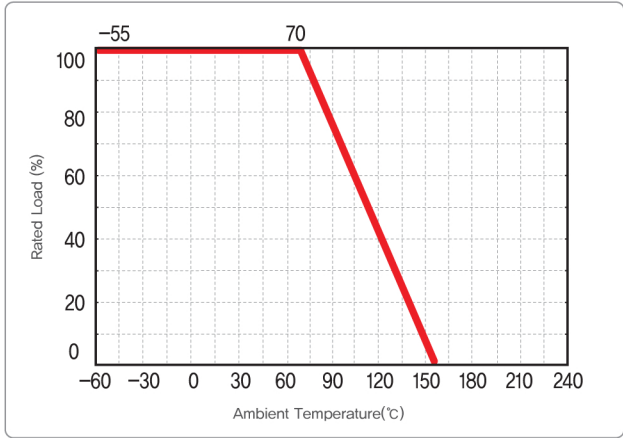
Type	Power Rating(W)	Max Working-Voltage(V)	Max Overload Voltage(V)	Dielectric Withstanding Voltage(V)	Operating Temp.[°C]	Resistance Range(Ω)	Resistance Tolerance (%)
MR 1/8W	0.125	150	300	300	-55 ~ +155	0 ~ 1M	F : ±1 G : ±2 J : ±5
MRS 1/4W	0.25	250	500	500			
MR 1/4W	0.25	250	500	500			
MRS 1/2W	0.5	300	600	600			
MR 1/2W	0.5	300	600	600			

※ Other than those listed above resistance tolerance is ever set in consultation with the user side.

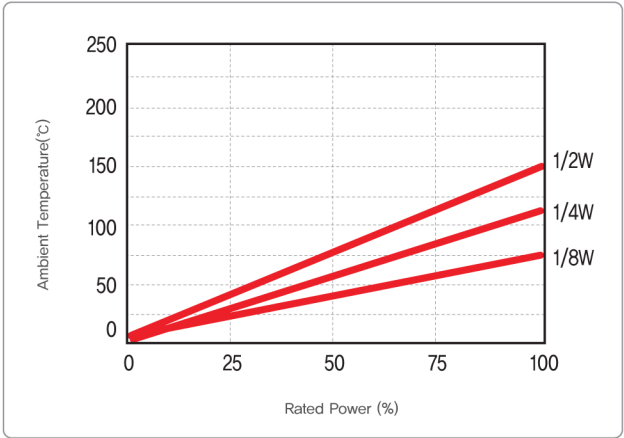
Performance

Test Items	Performance Requirements	Test Methods
Resistance	With specified tolerance	Measure resistance at 25°C
Temperature Coefficient Resistance	±100PPM/°C (Less than 10Ω ±600PPM/°C)	+25°C / +125°C
Short Time Over Load	±1%	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



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