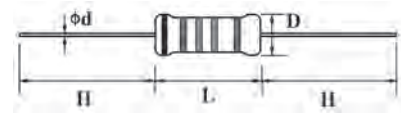
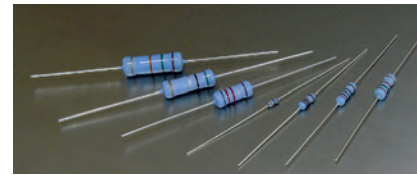


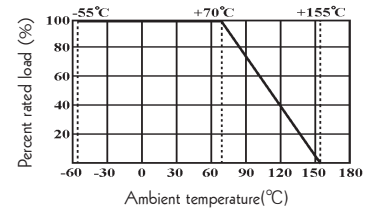
Feature

- EIA standard color coding
- Flame retardant type available
- Low noise & voltage coefficient
- Low temperature coefficient range
- Multiple epoxy coating on vacuum-deposited metal film provides superior moisture protection
- Nichrome resistive element provides stable performance in various environments



Part No.	Type	Power Rating at 70°C	Dimension (mm)			
			D Max.	L Max.	d ± 0.05	H ± 3
<b>Normal Size</b>						
MFR0W8	MF-12	1/8W	1.9	3.5	0.45	28
MFR0W4	MF-25	1/4W	2.5	6.8	0.54	28
MFR0W2	MF-50	1/2W	3.5	10	0.54	28
MFR01W	MF-100	1W	5	12	0.65	28
MFR02W	MF-200	2W	5.5	16	0.70	28
MFR03W	MF-300	3W	6.5	17.5	0.75	28
<b>Small Size &amp; Extra Small Size</b>						
MFR0S4	MF-25-S	1/4W	2	3.5	0.45	28
MFR004	MF-40-SS	0.4W	2	3.5	0.45	28
MFR0U2	MF-50-SS	1/2W	2.7	6.8	0.54	28
MFR0S2	MF-50-S	1/2W	3	9	0.54	28
MFR006	MF-60-S	0.6W	2.7	6.8	0.54	28

Derating Curve



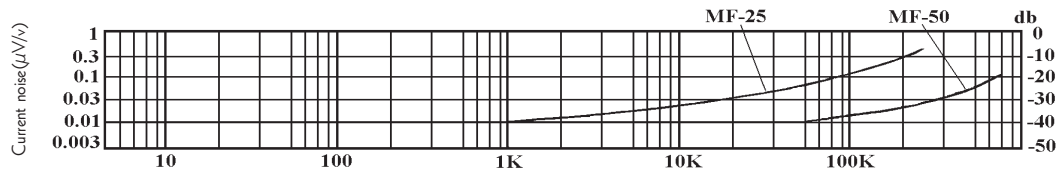
Standard Non-flammable coating for Small size type (except MF-50-S).

Part No.	Type	Dielectric Withstanding Voltage	Max. Working Voltage	Max. Overload Voltage	Standard Order			Special Order		
					Tolerance	TCR	Value Range	Tolerance	TCR	Value Range
MFR0W8	MF-12	400V	200V	400V	±1%	± 50	10Ω-1MΩ	± 0.25%	± 15	51.1Ω ~ 200KΩ
MFR0S4	MF-25-S	200V	200V	400V	±2%	± 100	10Ω-1MΩ	± 0.5%	± 25	51.1Ω ~ 511KΩ
MFR004	MF-40-SS				±5%	± 200	1Ω-1MΩ	± 0.5%	± 50	51.1Ω ~ 511KΩ
MFR0W4	MF-25	500V	250V	500V	±1%	± 50	10Ω-1MΩ	± 0.1%	± 15	10Ω ~ 1MΩ
MFR0U2	MF-50-SS	250V	250V	500V	±2%	± 100	1Ω-1MΩ	± 0.25%	± 25	10Ω ~ 1MΩ
MFR006	MF-60-S				±5%	± 200	1Ω-1MΩ	± 0.5%	± 50	10Ω ~ 1MΩ
MFR0S2	MF-50-S	700V	350V	700V	±1%	± 50	10Ω-1MΩ	± 0.1%	± 15	100Ω ~ 330KΩ
MFR0W2	MF-50				±2%	± 100	10Ω-1MΩ	± 0.25%	± 25	51.1Ω ~ 511KΩ
					±5%	± 200	1Ω-1MΩ	± 0.5%	± 50	10Ω ~ 1MΩ
MFR01W	MF-100				±1%	± 50	51.1Ω-1MΩ	± 0.1%	± 15	100Ω ~ 330KΩ
MFR02W	MF-200	1000V	500V	1000V	±2%	± 100	51.1Ω-1MΩ	± 0.25%	± 25	51.1Ω ~ 511KΩ
MFR03W	MF-300				±5%	± 200	1Ω-1MΩ	± 0.5%	± 50	51.1Ω ~ 1MΩ

## Performance Specification

Temperature coefficient	refer to P.20
Short-time overload	$\Delta R/R \leq \pm(0.5\%+0.05\Omega)$ , with no evidence of mechanical damage
Dielectric withstanding voltage	With no evidence of flashover, mechanical damage, arcing or insulation breakdown
Pulse overload	$\Delta R/R \leq \pm(1\%+0.05\Omega)$ , with no evidence of mechanical damage
Terminal strength	No evidence of mechanical damage
Resistance to soldering heat	$\Delta R/R \leq \pm(1\%+0.05\Omega)$ , with no evidence of mechanical damage
Solderability	Min. 95% coverage
Resistance to solvent	No deterioration of protective coating and marking
Temperature cycling	$\Delta R/R \leq \pm(1\%+0.05\Omega)$ , with no evidence of mechanical damage
Load life in humidity	Normal type: $\Delta R/R \leq \pm 1.5\%$ , Flame retardant type: $\Delta R/R \leq \pm 5\%$ .
Load life	Normal type: $\Delta R/R \leq \pm 1.5\%$ , Flame retardant type: $\Delta R/R \leq \pm 5\%$ .

## Current Noise Level



## Ordering Procedure (Example: MFR 1/8W 1% 50PPM 47.5KΩ T/R-5000)

