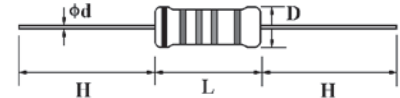
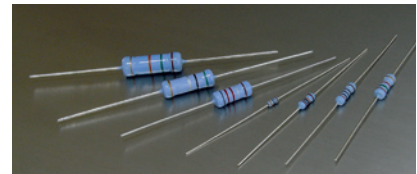


Feature

- 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 resistor element provides stable performance in various environments



Part No.	Type	Power Rating At 70°C	Dimension (mm)			
			D Max.	L Max.	d $\begin{smallmatrix} +0.02 \\ -0.05 \end{smallmatrix}$	H ± 3

Normal Size

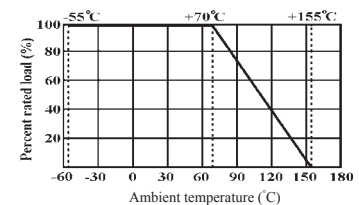
MFR0W8	MF-12	1/8W	1.85	3.5	0.5	28
MFR0W4	MF-25	1/4W	2.5	6.8	0.6	28
MFR0W2	MF-50	1/2W	3.5	10	0.6	28
MFR01W	MF-100	1W	5	12	0.7	28
MFR02W	MF-200	2W	5.5	16	0.8	28
MFR03W	MF-300	3W	6.5	17.5	0.8	28

Small Size & Extra Small Size

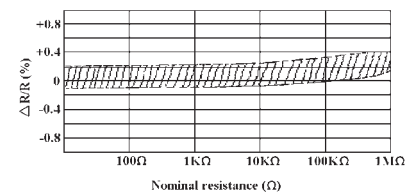
MFR0S4	MF-25-S	1/4W	2	3.5	0.5	28
MFR004	MF-40-SS	0.4W	2	3.7	0.5	28
MFR0U2	MF-50-SS	1/2W	3	6.8	0.6	28
MFR0S2	MF-50-S	1/2W	3	9	0.6	28
MFR006	MF-60-S	0.6W	3	6.8	0.6	28

Standard Non-Flammable coating for Small size types (except MF-50-S).

Derating Curve



Load Life

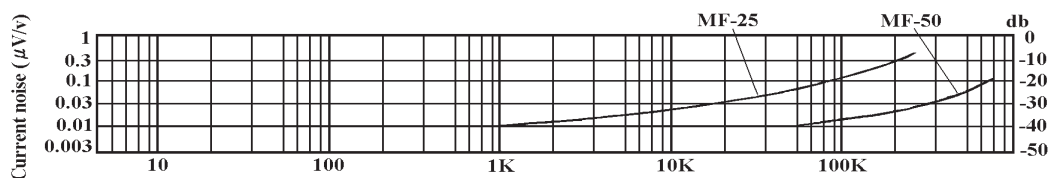


Part No.	Type	Dielectric With-standing V.	Max. Working V.	Max. Overload V.	Standard Order			Special Order		
					Tol.	T.C.R	Value Range	Tol.	T.C.R.	Value Range
MFR0W8	MF-12	400V	200V	400V	±1%	± 50	10Ω-1MΩ	± 0.25%	± 15	51.1Ω ~ 200KΩ
MFR0S4	MF-25-S	200V	200V	400V	±2%	± 100	10Ω-1MΩ	± 0.5%	± 25	51.1Ω ~ 511KΩ
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
MFR01W	MF-100	1000V	500V	1000V	±5%	± 200	1Ω-1MΩ	± 0.5%	± 50	10Ω ~ 1MΩ
MFR02W	MF-200				±1%	± 50	51.1Ω-1MΩ	± 0.1%	± 15	100Ω ~ 330KΩ
MFR03W	MF-300				±2%	± 100	51.1Ω-1MΩ	± 0.25%	± 25	51.1Ω ~ 511KΩ

Performance Specifications

Temperature coefficient	Within the maximum temperature coefficient specified in page 16.
Short-time overload	$\Delta R/R \leq \pm(0.5\%+0.05\Omega)$, with no evidence of mechanical damage.
Dielectric withstanding voltage	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 markings.
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 47.5K Ω T/R-5000)

