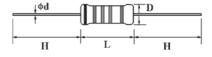
# **UniOhm**



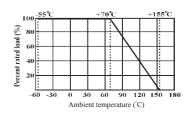
#### Feature

- 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

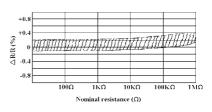
		Power	Dimension (mm)					
Part No.	Туре	Rating At 70°C	D Max.	L Max.	d +0.02 - 0.05	H ± 3		
Normal Size								
MFROW8	MF-12	1/8W	1.85	3.5	0.5	28		
MFROW4	MF-25	1/4W	2.5	6.8	0.6	28		
MFROW2	MF-50	1/2W	3.5 10		0.6	28		
MFR01W	MF-100	1₩	5	12	0.7	28		
MFR02W	MF-200	2W	5.5	16	0.8	28		
MFR03W	MF-300	3W	6.5	17.5	0.8	28		
Small Size & Ex	tra Small Size							
MFR0S4	MF-25-S	1/4W	2	2 3.5		28		
MFR004	MF-40-SS	0.4W	2	2 3.7		28		
MFROU2	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		



### Derating Curve



Load Life



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

	Туре	Dielectric With- standing V.	Max. Working V.	Max. Overload V.	Standard Order			Special Order		
Part No.					Tol.	T.C.R	Value Range	Tol.	T.C.R.	Value Range
MFROW8	MF-12	400V	200V	400V	±1%	± 50	10Ω-1ΜΩ	± 0.25%	± 15	51.1Ω ~ 200ΚΩ
MFR0S4	MF-25-S	200V	200V	400V	$\pm 2\%$	± 100	10Ω-1ΜΩ	± 0.5%	± 25	$51.1\Omega \sim 511 K\Omega$
MFR004	MF-40-SS				±5%	± 200	1Ω-1ΜΩ	± 0.5%	± 50	$51.1\Omega \sim 511 K\Omega$
MFROW4	MF-25	500V	250V	500V	±1%	± 50	10Ω-1ΜΩ	± 0.1%	± 15	10Ω ~ 1MΩ
MFROU2	MF-50-SS	250V	250V	500V	$\pm 2\%$	± 100	1Ω-1ΜΩ	± 0.25%	± 25	$10\Omega \sim 1 M \Omega$
MFR006	MF-60-S				±5%	± 200	1Ω-1ΜΩ	$\pm 0.5\%$	± 50	$10\Omega \sim 1 M \Omega$
MFR0S2	MF-50-S	700V	350V	700V	±1%	± 50	10Ω-1ΜΩ	± 0.1%	± 15	100Ω ~ 330ΚΩ
					$\pm 2\%$	± 100	10Ω-1ΜΩ	$\pm 0.25\%$	± 25	$51.1\Omega \sim 511 K\Omega$
MFR0W2	MF-50				$\pm 5\%$	± 200	1Ω-1ΜΩ	$\pm 0.5\%$	± 50	$10\Omega \sim 1 M \Omega$
MFR01W	MF-100				±1%	± 50	51.1Ω-1ΜΩ	± 0.1%	± 15	100Ω~ 330ΚΩ
MFR02W	MF-200	1000V	500V	1000V	±2%	± 100	51.1Ω-1ΜΩ	± 0.25%	± 25	$51.1\Omega \sim 511 K\Omega$
MFR03W	MF-300				$\pm 5\%$	± 200	1Ω-1ΜΩ	± 0.5%	± 50	$51.1\Omega \sim 1M\Omega$

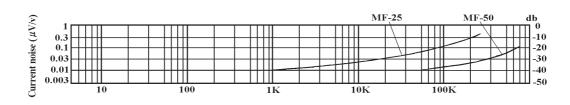
## Precision Metal Film Fixed Resistors



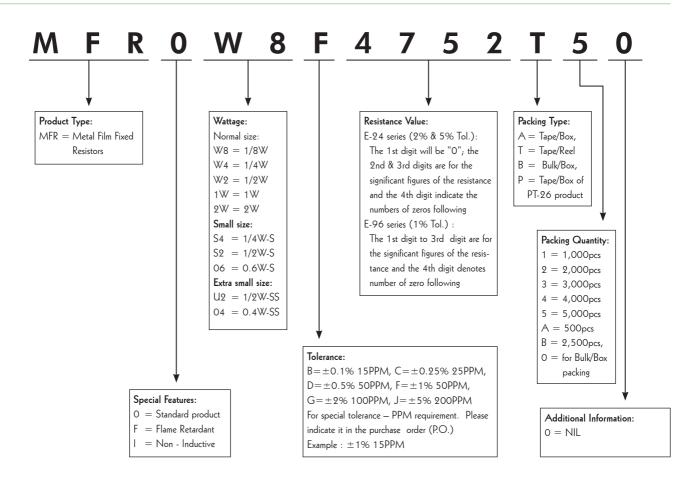
#### Performance Specifications

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: $\Delta R/R \le \pm 1.5\%_i$ Flame retardant type: $\Delta R/R \le \pm 5\%$ .				
Load life	Normal type: $\Delta R/R \le \pm 1.5\%$ ; Flame retardant type: $\Delta R/R \le \pm 5\%$ .				

#### Current Noise Level:



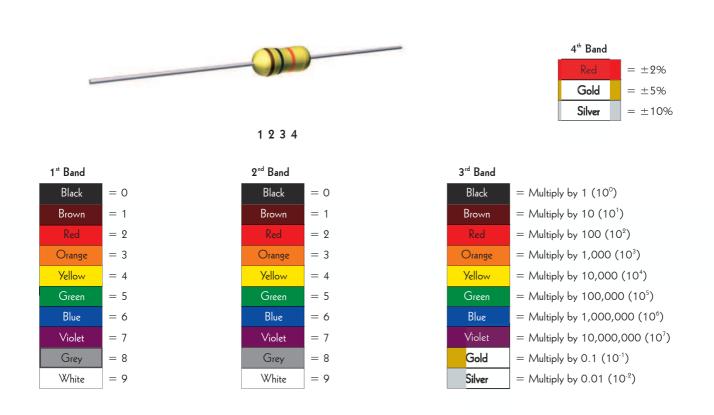
Ordering Procedure (Example: MFR 1/8W 1% 50PPM 47.5KQ T/R-5000)



## **UniOhm**

### Standard Color Code System

### Four Band Color Code (Available for CFR, MOR, KNP & 2% or 5% of MFR Products)



#### Five Band Color Code (Available for MFR 1% & FRN Products)

