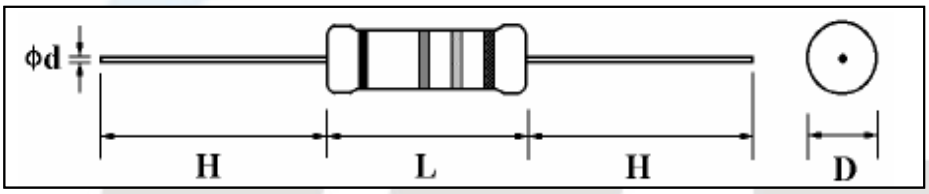
METAL FILM FIXED RESISTORS

*Non - Flame type available
*Low noise & voltage coefficient
*Low temperature coefficient range
*Wide precision range in small package
*Multiple epoxy coating on vacuum deposited metal film provides superior moisture protection
*Nichrome resistor element provides stable performance in various environment
*Too low or too high ohmic value can be supplied on a case to case basis

DIMENSION

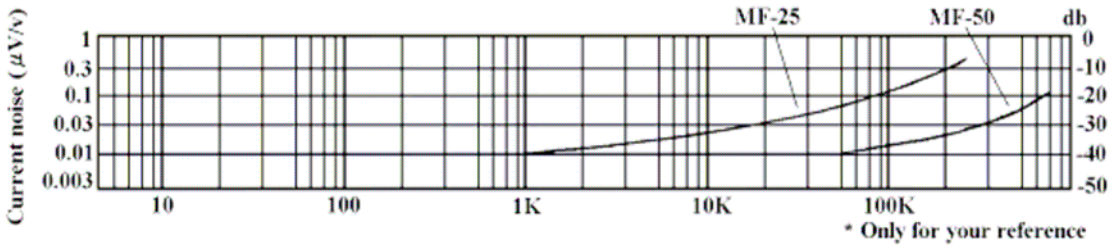


Type	Power Rating (W)	Dimensions(mm)				Max. Working Volatage (V)	Max. Overroad Volatage (V)	Rating Ambient Temp.	Operating Temp Range	Resistance Range	
		H	d	L	D					D(±0.5) F(±1)	J(±5)
MR 1/6W	0.167	24.5±1.0	0.45	3.2±0.2	1.8±0.2	150	300	+70°C	-55°C~ +155°C	10 ~ 1M	4.7 ~ 1M
MRS 1/4W	0.25	24.5±1.0	0.45	3.2±0.2	1.8±0.2	250	500			10 ~ 1M	4.7 ~ 1M
MR 1/4W	0.25	23±1.0	0.6	6.4±0.2	2.4±0.2	250	500			10 ~ 1M	4.7 ~ 1M
MRS 1/2W	0.5	23±1.0	0.6	6.4±0.2	2.4±0.2	300	600			10 ~ 1M	4.7 ~ 1M
MR 1/2W	0.5	21.5±1.0	0.7	9.0±0.4	3.3±0.2	300	600			10 ~ 1M	4.7 ~ 1M

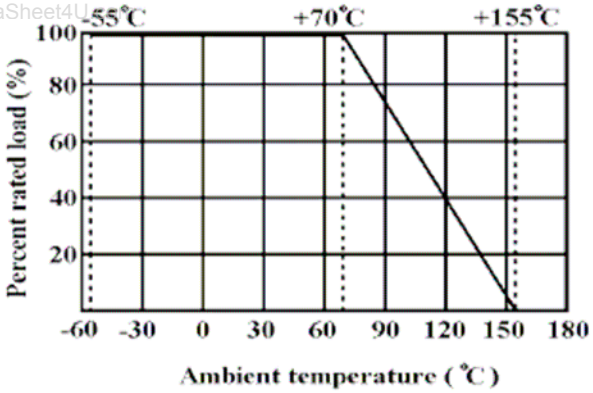
PERFORMANCE SPECIFICATIONS

Characteristics	Limits
Temperature coefficient	Within the maximum temperature coefficient specified
Short time overload	ΔR/R ≤ ±(0.5% + 0.05Ω), with no evidence of mechanical damage.
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Pulse overload	ΔR/R ≤ ±(1.0% + 0.05Ω), with no evidence of mechanical damage.
Terminal strength	No evidence of mechanical damage.
Resistance to soldering heat	ΔR/R ≤ ±(1.0% + 0.05Ω), with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Resistance to solvent	No deterioration of protective coating and markings.
Temperature cycling	ΔR/R ≤ ±(1.0% + 0.05Ω), with no evidence of mechanical damage.
Load life in humidity	Normal type: ΔR/R ≤ ± 1.5%
	Non-Flame type: ΔR/R ≤ ± 5%
Load life	Normal type: ΔR/R ≤ ± 1.5%
	Non-Flame type: ΔR/R ≤ ± 5%

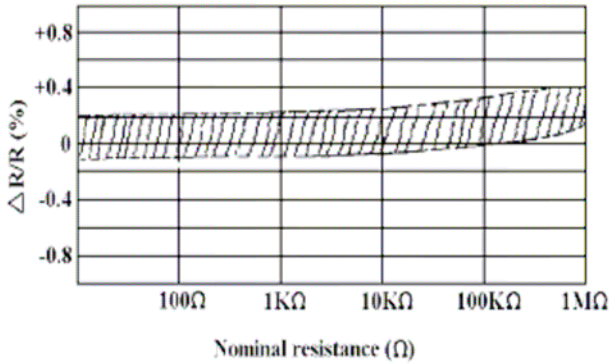
Current Noise Level



Derating Curve



Load Life



UNI RESISTOR