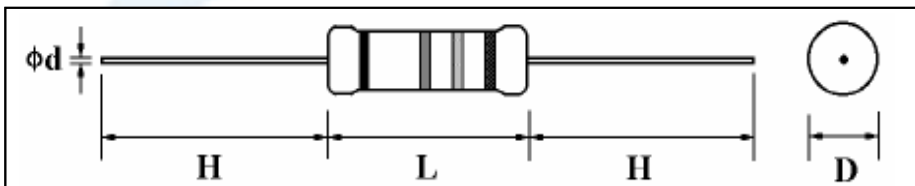


# METAL FILM FIXED RESISTORS

- \* 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

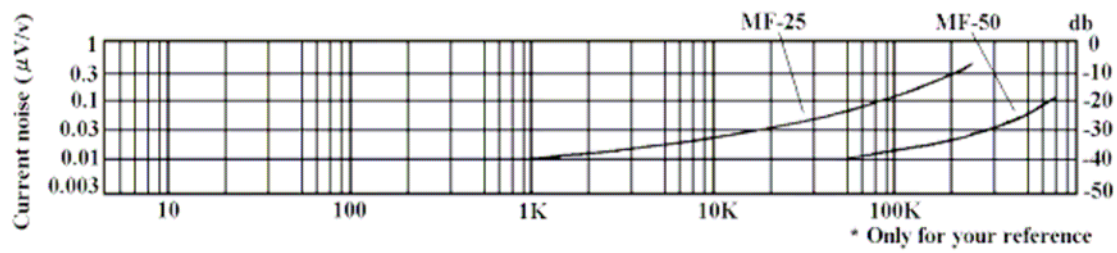


| Type     | Power Rating (W) | Dimensions(mm) |      |         |         | Max. Working Voltage (V) | Max. Overload Voltage (V) | Rating Ambient Temp. | Operating Temp Range | Resistance Range |          |
|----------|------------------|----------------|------|---------|---------|--------------------------|---------------------------|----------------------|----------------------|------------------|----------|
|          |                  | 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~<br>+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 |

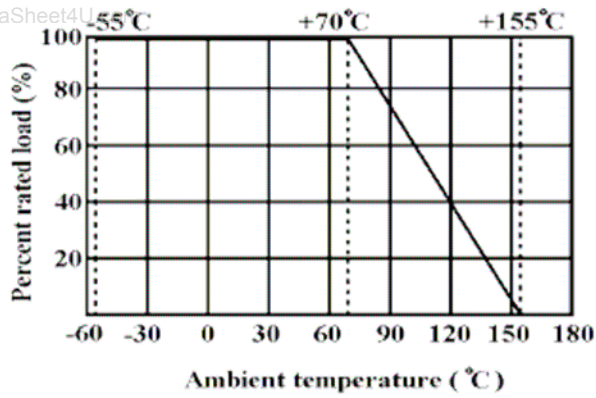
## PERFORMANCE SPECIFICATIONS

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

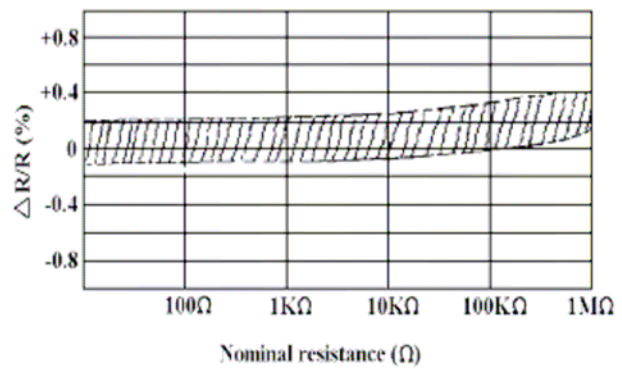
### Current Noise Level



### Derating Curve



### Load Life



UNI RESISTOR