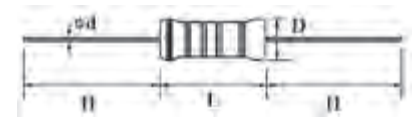
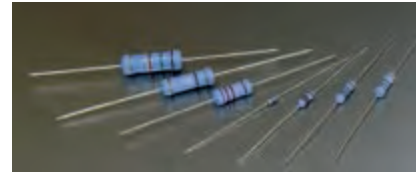


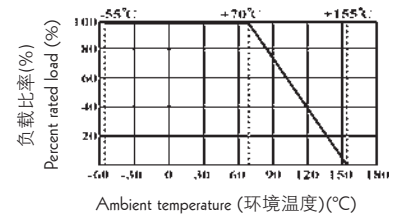
Feature (特性)

- EIA standard color coding. EIA标准色码
- Flame retardant type available 可供不燃性涂装
- Low noise & voltage coefficient 噪声低, 电压系数小
- Low temperature coefficient range 温度系数低
- Multiple epoxy coating on vacuum-deposited metal film provides superior moisture protection 真空溅射金属皮膜涂多层环氧树脂, 防水性效果好
- Nichrome resistive element provides stable performance in various environments 镍基金属膜层的采用使各项性能更加稳定



| Part No.<br>料号                                      | Type<br>类型 | Power Rating<br>功率<br>70°C | Dimension (尺寸) (mm) |          |          |       |
|---|------------|----------------------------|---------------------|----------|----------|-------|
|   |            |                            | D                   | L        | d ± 0.05 | H ± 3 |
| <b>Normal Size (正常尺寸)</b>                           |            |                            |                     |          |          |       |
| MFROW8  | MF-12      | 1/8W                       | 1.9±0.3             | 3.3±0.3  | 0.45     | 28    |
| MFROW4  | MF-25      | 1/4W                       | 2.2±0.3             | 6.5±1.0  | 0.54     | 28    |
| MFROW2  | MF-50      | 1/2W                       | 3.0±0.6             | 9.5±1.0  | 0.54     | 28    |
| MFR01W  | MF-100     | 1W                         | 4.5±0.6             | 11.5±1.0 | 0.65     | 28    |
| MFR02W  | MF-200     | 2W                         | 5.0±0.6             | 15.5±1.0 | 0.70     | 28    |
| MFR03W  | MF-300     | 3W                         | 6.0±0.6             | 17.5±1.0 | 0.75     | 28    |
| <b>Small Size &amp; Extra Small Size (小型及超小型尺寸)</b> |            |                            |                     |          |          |       |
| MFR0S4  | MF-25-S    | 1/4W                       | 1.9±0.5             | 3.3±0.3  | 0.45     | 28    |
| MFR004  | MF-40-SS   | 0.4W                       | 1.9±0.5             | 3.3±0.3  | 0.45     | 28    |
| MFR0U2  | MF-50-SS   | 1/2W                       | 2.2±0.5             | 6.5±0.5  | 0.54     | 28    |
| MFR0S2  | MF-50-S    | 1/2W                       | 2.7±0.5             | 9.0±1.0  | 0.54     | 28    |
| MFR006  | MF-60-S    | 0.6W                       | 2.2±0.5             | 6.5±1.0  | 0.54     | 28    |
| MFR01S  | MF-100-S   | 1WS                        | 3.5±0.6             | 9.5±1.0  | 0.60     | 28    |
| MFR02S  | MF-200-S   | 2WS                        | 4.0±0.6             | 11.5±1.0 | 0.65     | 28    |
| MFR03S  | MF-300-S   | 3WS                        | 5.0±0.6             | 15.5±1.0 | 0.7      | 28    |

Derating Curve (降功率曲线)



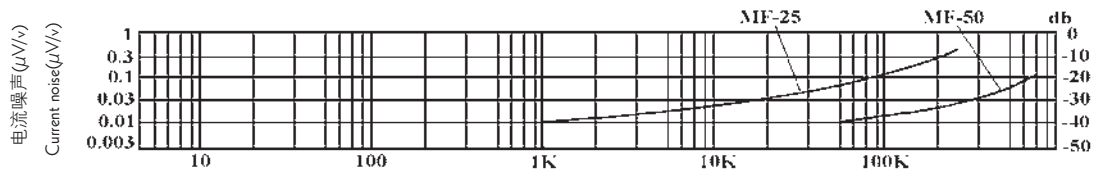
Standard Non-flammable coating for Small size type (except MF-50-S). [小尺寸标准不燃性涂装 (MF-50-S除外)]

| Part No.<br>料号 | Type<br>类型 | Dielectric Withstanding Voltage<br>绝缘耐压 | Max. Working Voltage<br>最大工作电压 | Max. Overload Voltage<br>最大过负荷电压 | Standard Order 标准品 |             |                          | Special Order 特殊订购品 |             |                          |
|----------------|------------|---|--------------------------------|----------------------------------|--------------------|-------------|--------------------------|---------------------|-------------|--------------------------|
|                |            |   |                                |                                  | Tolerance<br>公差    | TCR<br>温度系数 | Resistance Range<br>阻值范围 | Tolerance<br>公差     | TCR<br>温度系数 | Resistance Range<br>阻值范围 |
| MFROW8         | 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            |
| MFROW4         | 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             |
| MFROW2         | 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            |                     |             |                          |
| MFR01S         | MF-100-S   | 350V                                    | 350V                           | 700V                             | ±5%                | ± 200       | 1Ω-1MΩ                   | ± 0.5%              | ± 50        | 51.1Ω ~ 1MΩ              |
| MFR02S         | MF-200-S   | 350V                                    | 500V                           | 1000V                            | ±1%                | ± 50        | 10Ω ~ 1MΩ                | ± 0.1%              | ± 15        | 100Ω ~ 330KΩ             |
| MFR03S         | MF-300-S   |   |                                |                                  | ±2%                | ± 100       | 10Ω ~ 1MΩ                | ± 0.25%             | ± 25        | 51.1Ω ~ 511KΩ            |
|                |            |   |                                |                                  | ±5%                | ± 200       |                          | ± 0.5%              | ± 50        | 51.1Ω ~ 1MΩ              |

### Performance Specification (性能)

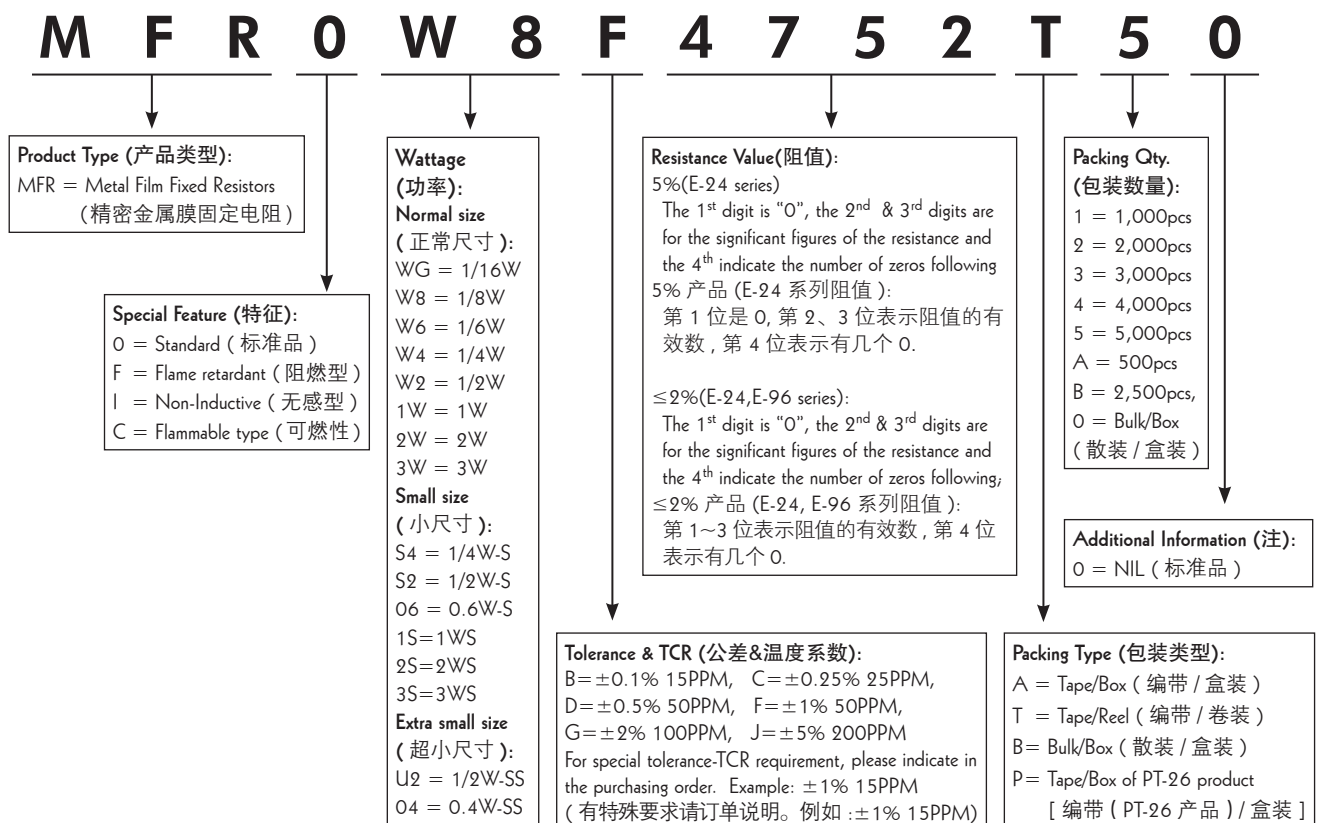
|                                 |        |  |
|---------------------------------|--------|--|
| Temperature coefficient         | 温度系数   | according to page 58 (参考第 58 页)  |
| Short-time overload             | 短时间过负荷 | $\Delta R/R \leq \pm(0.5\%+0.05\Omega)$ , with no evidence of mechanical damage (无可见机械损伤)                |
| Dielectric withstanding voltage | 绝缘耐压   | With no evidence of flashover, mechanical damage, arcing or insulation breakdown<br>无击穿、飞弧及可见机械损伤        |
| Pulse overload                  | 脉冲过负荷  | $\Delta R/R \leq \pm(1\%+0.05\Omega)$ , with no evidence of mechanical damage (无可见机械损伤)                  |
| Terminal strength               | 端子强度   | No evidence of mechanical damage (无可见机械损伤)   |
| Soldering heat                  | 耐焊接热   | $\Delta R/R \leq \pm(1\%+0.05\Omega)$ , with no evidence of mechanical damage (无可见机械损伤)                  |
| Solderability                   | 可焊性    | Min. 95% coverage (最少 95% 覆盖率)   |
| Resistance to solvent           | 耐溶剂    | No deterioration of protective coating and marking (包封层, 色码完整)   |
| Temperature cycling             | 温度循环   | $\Delta R/R \leq \pm(1\%+0.05\Omega)$ , with no evidence of mechanical damage (无可见机械损伤)                  |
| Load life in humidity           | 湿度寿命   | Normal type (普通型): $\Delta R/R \leq \pm 1.5\%$ ; Flame retardant type (阻燃型): $\Delta R/R \leq \pm 5\%$ . |
| Load life                       | 负载寿命   | Normal type (普通型): $\Delta R/R \leq \pm 1.5\%$ ; Flame retardant type (阻燃型): $\Delta R/R \leq \pm 5\%$ . |

### Current Noise Level (电流噪声水平)



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

订购方式 (例如: MFR 1/8W 1% 50PPM 47.5KΩ T/R-5000)



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