



深圳市咸阳华星机电有限公司

SHENZHEN XIANYANG HUAXING MACHINERG & ELECTRONIC.CO;LTD

# 承 认 书

(APPROVE SHEET)

客 户(Customer): \_\_\_\_\_

品 名(Description): MF 金属膜电阻器

规格(Specification): \_\_\_\_\_

客户料号(Cus. P/N): \_\_\_\_\_

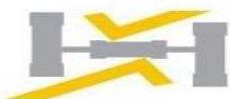
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# MF/RJ 金属膜电阻器

## MF/RJ METAL FILM RESISTORS

### 1. 一般事项      **General**

#### 1.1 适用 Scope

本承认书适用于 [金属皮膜固定电阻器], 符合环境关联物质要求之 RoHS 测试。  
This specification is available for **Metal** Film Fixed Resistor,it accords with RoHS test of Environment related substance requirement.

#### 1.2 形名(例) Type designation (example)

依使用种类、额定电力、公称电阻值、容许误差及型状而区别,其构造如下。

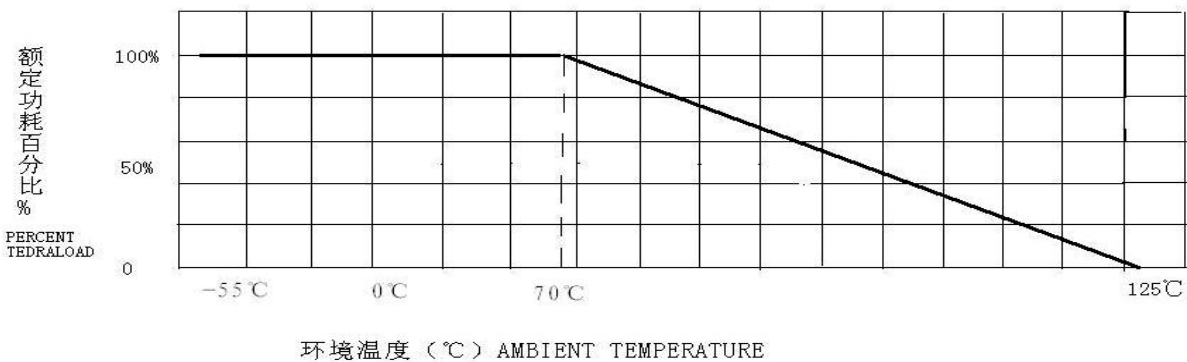
The type designation shall be in the following form and as specified.

|             |                     |                                      |                                    |                |
|-------------|---------------------|--------------------------------------|------------------------------------|----------------|
| MF          | 2 W                 | 100K                                 | ± 1%                               | T62            |
| 种 类<br>Type | 额定电力<br>Rated power | 公称电阻值<br>Nominal resistance<br>value | 电阻值容许误差<br>Resistance<br>tolerance | 形状<br>Form     |
|             | 标准<br>Normal        | E-24 Series                          | J    ± 5%                          | P 型 P Type     |
|             | 小型<br>Small         | E-96 Series                          | G    ± 2%                          | M 型 M Type     |
|             | 1/4W                |                                      | F    ± 1%                          | MB 型 MB Type   |
|             | 1/2W                |                                      |                                    | FK1 型 FK1Type  |
|             | 1W                  |                                      |                                    | FK2 型 FK2 Type |
|             | 2W                  |                                      |                                    | FKK 型 FKK Type |
|             | 3W                  |                                      |                                    |                |

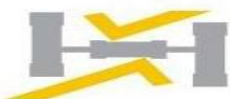
#### 1.3 额定电力 Rated power

额定电力系应在周围温度 70℃可以连续负载的最大电力, 如表-1;但周围温度如超过 70℃时之额定电力则依图一的电力递减曲线实施。

Rated power is maximum power which can be continuously loaded at specified ambient temperature 70℃,as Table-1;however when the ambient temperature exceeds 70℃,rated power should be determined from the derating curve of Fig.1.



#### 1.4 使用环境温度: -55℃~+125℃ Operating ambient temperature-55℃~+125℃



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1.5 功率因数计算公式： $E = \sqrt{(P \times R)}$ Where E: 额定电压 Rated voltage(V)  
P: 定格电力 Rated power(W)  
R: 公称电阻值 Nominal resistance( $\Omega$ )

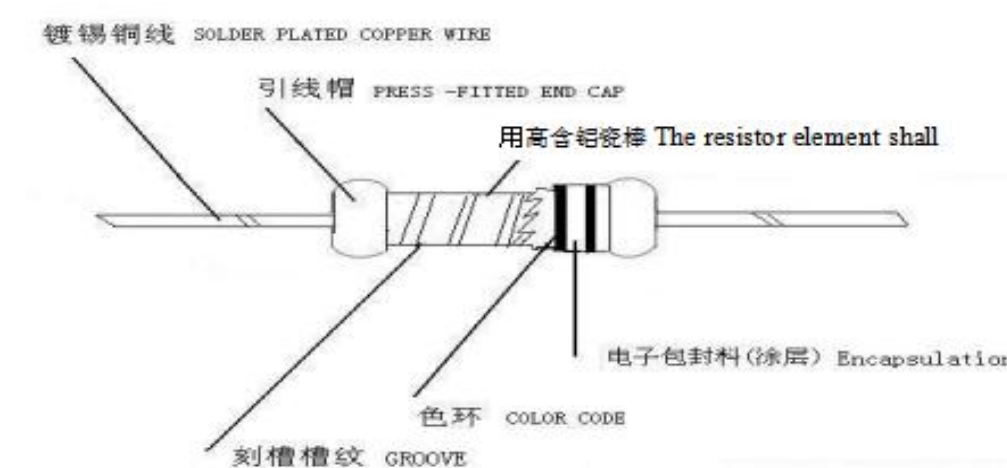
| 种类<br>Type  |        | 定格电力<br>Rated power | 最高使用电压<br>Maximum working<br>voltage | 最高过负荷电压<br>Maximum overload<br>voltage |
|-------------|--------|---------------------|--------------------------------------|----------------------------------------|
| Normal size | MF1/8W | 0.125W              | 150V                                 | 300V                                   |
|             | MF1/4W | 0.25W               | 250V                                 | 500V                                   |
|             | MF1/2W | 0.5W                | 300V                                 | 700V                                   |
|             | MF1W   | 1W                  | 350V                                 | 800V                                   |
|             | MF2W   | 2W                  | 500V                                 | 800V                                   |
|             | MF3W   | 3W                  | 500V                                 | 800V                                   |
|             | MF5W   | 5W                  | 500V                                 | 1000V                                  |

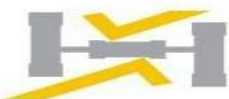
2. 构造 Construction

2.1 外形尺寸 External dimensions  
参照本承认书的 [5. 外形尺寸]。  
The dimensions shall be satisfied with [5. External dimensions].

2.2 构造图 Structure diagram  
MF 系列之金属皮膜固定电阻器系按下表的材料而构成:  
The construction of resistor (MF series) shall be as follows:

2.3 外观颜色 Resistor body color: 蓝色(Blue)





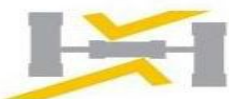
## MF/RJ 金属膜电阻器

### MF/RJ METAL FILM RESISTORS

#### 3. 参数特性 Characteristics

表-3 Table-3

| 项 目<br>Item                                  | 规格值<br>Performance                                                                                                    | 试验方法(依据 JIS C 5202)<br>Test methods(Conform to JIS C 5202)                                                                                                                                                                                                                                                                     |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 温度系数<br>Temperature<br>Coefficient           | $\pm 200\text{PPM}/^{\circ}\text{C}$ 以内。<br>Within $\pm 200\text{PPM}/^{\circ}\text{C}$ .                             | 5.2 项参照 Comply with 5.2<br>$\frac{R_1 - R_0}{R_0(T_1 - T_0)} \times 10^6 (\text{PPM}/^{\circ}\text{C})$ $R_0$ : 室温( $T_0$ )所测量之电阻值。<br>$R_1$ : 室温+100 $^{\circ}\text{C}$ ( $T_1$ )后所测量之电阻值。<br>$R_0$ : Resistance value at room temp.( $T_0$ ).<br>$R_1$ : Resistance value at room temp.plus 100 $^{\circ}\text{C}$ ( $T_1$ ) |
| 短时间过负荷<br>Short time<br>overload             | $\pm (1\% + 0.05 \Omega)$ 以内。<br>不得有机械的损伤。<br>Within $\pm (1\% + 0.05 \Omega)$ .<br>No evidence of mechanical damage. | 5.5 项参照 Comply with 5.5<br>额定电压 $\times 2.5$ 倍,5 秒。<br>不可超过最高过负荷电压(见表-1)<br>Rated voltage $\times 2.5$ times,5s<br>But not to exceed maximum overload<br>voltage.(See table-1)                                                                                                                                                 |
| 绝缘电阻<br>Insulation<br>Resistance             | $10^4\text{M}\Omega$ 以上。<br>$10^4\text{M}\Omega$ or more.                                                             | 5.6 项参照 Comply with 5.6<br>置于 V 型槽方法。<br>施加直流电压 500V 60 秒。<br>V-block method<br>Resistor shall be tested at DC 500V for 60<br>seconds.                                                                                                                                                                                         |
| 耐电压<br>Dielectric<br>Withstanding<br>Voltage | 无电弧放电、烧损及绝<br>缘破坏等异状。<br>No evidence of flashover mechanical<br>damage, arcing<br>or insulation breakdown.            | 5.7 项参照 Comply with 5.7<br>常压,置于 V 型槽方法。<br>施加个别规定之交流电压 60 秒。(见表-1)<br>Constant pressure, V-block method<br>Resistor shall be tested at AC potential<br>respectively for 60 seconds. (See table-1)                                                                                                                             |
| 断续过负荷<br>Pulse overload                      | $\pm (2\% + 0.05 \Omega)$ 以内。<br>Within $\pm (2\% + 0.05 \Omega)$                                                     | 5.8 项参照 Comply with 5.8<br>额定电压 $\times 4$ 倍,10000 回(1 秒 ON,25 秒<br>OFF)。<br>不可超过最高断续电压(见表-1)<br>Rated voltage X 4 times, 10000 cyc.(1s<br>ON, 25s OFF)<br>But not to exceed maximum pulse<br>voltage. (See table-1)                                                                                                           |



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| 项 目<br>Item                           | 规格值<br>Performance                                                                          | 试验方法(依据 JIS C 5202)<br>Test methods(Conform to JIS C 5202)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                |                |
|---------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|----------------|
| 端子强度<br>Terminal strength             | 端子不得断裂及松弛。<br>No evidence of mechanical damage.                                             | 6.1 项参照 Comply with 6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                |                |
|                                       |                                                                                             | 引张强度<br>Tensile strength                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 线径 mm<br>Diameter | 引张力<br>Tensile force<br>N(kgf) | 时 间<br>Time    |
|                                       |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Φ0.38mm~0.50mm    | 5(0.51)                        | 10±1<br>second |
|                                       |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Φ0.50mm~0.80mm    | 10(1.02)                       |                |
|                                       |                                                                                             | 扭转强度： 自电阻体起约 6mm~6.5mm 处之端子线,以约0.75mm曲率半径弯曲90度,其次由弯曲处向端子线先端 1.2±0.4mm 处挟定端子引出轴,作回转轴,以约 5 秒时间沿直面回转 360° 再逆转 360° ,如此施行回逆转 2 次,不可发生折断及松动现象。<br>Tensional strength: To bend the lead wire at the point of about 6mm~6.5mm from resistor body. about 0.75mm curvature radii to 90° then catch the wire at 1.2 ± 0.4mm apart from the bend point end and turn it ( clockwise ) by 360 degrees perpendicular to the resistor axis at speed of same 5 seconds per turn, and do the same counterclockwise again which constitute a whole turn. Repeat the turn for 2 times without causing any break and looseness. |                   |                                |                |
| 焊锡耐热性<br>Resistance to soldering heat | ±(1%+0.05 Ω )以内。<br>不得有机械的损伤。<br>Within ±(1 %+0.05 Ω )<br>No evidence of mechanical damage. | 6.4 项参照 Comply with 6.4<br>350±10℃, 3±1.0 秒, 试验后放置半小时。<br>350±10℃, 3±1.0s<br>After test leave for 0.5h.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                |                |
| 焊锡附着性<br>Solderability                | 导线至少 95%以上新锡覆盖。<br>Covered with new solder by 95% at least.                                 | 6.5 项参照 Comply with 6.5<br>焊锡温度: 255±5℃。<br>浸锡时间: 3±1.0 秒。<br>Test temperature of solder:255±5℃<br>Dipping time in solder:3±1.0 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                                |                |
| 耐溶剂性<br>Resistance to solvent         | 涂装及色码不得脱落。<br>No deterioration of protective coating and markings.                          | 6.9 项参照 Comply with 6.9<br>放入酒精溶剂之超音波机内, 保持 3 分钟。<br>Specimens shall be immersed in a bath of isoproalcohol completely for 3 minutes with ultrasonic.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                |                |



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| 项 目<br>Item                        | 规格值<br>Performance                                                                                                 | 试验方法(依据 JIS C 5202)<br>Test methods(Conform to JIS C 5202)                                                                                                                                                                                                                                       |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 温度循环<br>Temperature<br>cycle       | $\pm(2\%+0.05\ \Omega)$ 以内。<br>不得有机械的损伤。<br>Within $\pm(2\%+0.05\ \Omega)$<br>No evidence of mechanical<br>damage. | 7.4 项参照 Comply with 7.4<br>低温侧: $-55^{\circ}\text{C}/30$ 分, 室温: 10~15 分钟<br>高温侧: $+80^{\circ}\text{C}/30$ 分, 室温: 10~15 分钟<br>5 回<br>Low side: $-55^{\circ}\text{C}/30\text{min}$ , Room temp.: 10 to 15min<br>High side: $80^{\circ}\text{C}/30\text{min}$ , Room temp.: 10 to 15min<br>5 cycles |
| 耐湿负荷寿命<br>Load life in<br>humidity | $\pm(5\%+0.05\ \Omega)$ 以内。<br>Within $\pm(5\%+0.05\ \Omega)$                                                      | 7.9 项参照 Comply with 7.9<br>$40\pm 2^{\circ}\text{C}$ , 湿度 90~95%, 1000 小时<br>定格电压(90 分钟 ON, 30 分钟 OFF)<br>$40\pm 2^{\circ}\text{C}$ , 90 to 95%RH, 1000h<br>Rated voltage (90 min ON, 30 min OFF)                                                                                                |
| 负荷寿命<br>Load life                  | $\pm(5\%+0.05\ \Omega)$ 以内。<br>Within $\pm(5\%+0.05\ \Omega)$                                                      | 7.10 项参照 Comply with 7.10<br>$70\pm 3^{\circ}\text{C}$ , 1000 小时<br>定格电压(90 分钟 ON, 30 分钟 OFF)<br>$70\pm 3^{\circ}\text{C}$ , 1000h<br>Rated voltage (90 min ON, 30 min OFF)                                                                                                                      |

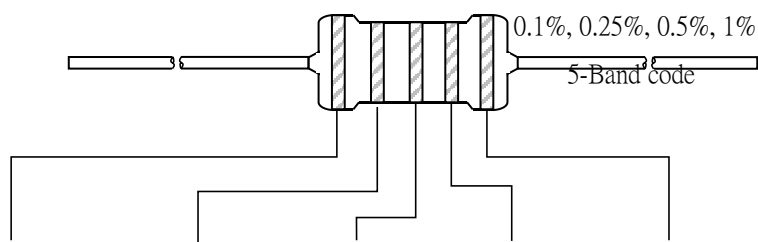


## MF/RJ 金属膜电阻器

### MF/RJ METAL FILM RESISTORS

#### 4. 表示 Indication

色码 Color Code



| 颜色 Color | 第 1 数字<br>1 <sup>st</sup> figure | 第 2 数字<br>2 <sup>nd</sup> figure | 第 3 数字<br>3 <sup>RD</sup> figure | 倍 率<br>Multiplier | 误差率<br>Tolerance |
|----------|----------------------------------|----------------------------------|----------------------------------|-------------------|------------------|
| 黑 Black  | 0                                | 0                                | 0                                | $10^0$            |                  |
| 棕 Brown  | 1                                | 1                                | 1                                | $10^1$            | ±1% (F)          |
| 红 Red    | 2                                | 2                                | 2                                | $10^2$            | ±2% (G)          |
| 橙 Orange | 3                                | 3                                | 3                                | $10^3$            |                  |
| 黄 Yellow | 4                                | 4                                | 4                                | $10^4$            |                  |
| 绿 Green  | 5                                | 5                                | 5                                | $10^5$            | ±0.5% (D)        |
| 蓝 Blue   | 6                                | 6                                | 6                                | $10^6$            | ±0.25% (C)       |
| 紫 Violet | 7                                | 7                                | 7                                | $10^7$            | ±0.1% (B)        |
| 灰 Gray   | 8                                | 8                                | 8                                |                   | ±0.05% (A)       |
| 白 White  | 9                                | 9                                | 9                                |                   |                  |
| 金 Gold   |                                  |                                  |                                  | $10^{-1}$         | ±5% (J)          |
| 银 Silver |                                  |                                  |                                  | $10^{-2}$         | ±10% (K)         |
| 无 Plain  |                                  |                                  |                                  |                   | ±20% (M)         |



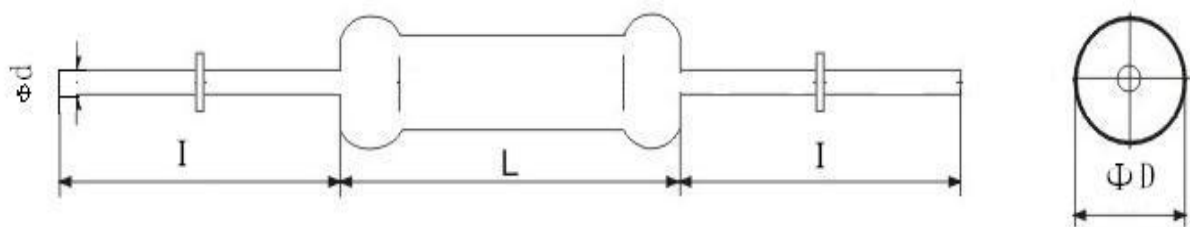
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5. 外形寸法 External dimensions

5.1 散装 P 型 P type

P Type



| 种 类 Type           |                   | 尺 寸 Dimensions |         |           |           |         |
|--------------------|-------------------|----------------|---------|-----------|-----------|---------|
| 普通型<br>Normal Size | 小型化<br>Small Size | I              | L ± 1.0 | ψ D       | ψ d ± 0.1 | I ± 2.0 |
| MF1/8W、1/6W        | MF1/4WS           | 60             | 3.2     | 1.8 ± 0.5 | 0.40      | 28      |
| MF1/4W             | MF1/2WS           | 60             | 6.5     | 2.3 ± 0.5 | 0.40      | 28      |
| MF1/2W             | MF1WS             | 60             | 9.0     | 3.2 ± 0.5 | 0.50      | 28      |
| MF1W               | MF2WS             | 60             | 11.5    | 4.5 ± 1.0 | 0.60      | 25      |
|                    |                   | 73             | 11.5    | 4.5 ± 1.0 | 0.60      | 31      |
| MF2W               | MF3WS             | 70             | 15.5    | 5.0 ± 1.0 | 0.70      | 25      |
|                    |                   | 81             | 15.5    | 5.0 ± 1.0 | 0.70      | 33      |
|                    |                   | 94             | 15.5    | 5.0 ± 1.0 | 0.70      | 40      |
| MF3W               | MF5WS             | 94             | 17.5    | 6.0 ± 1.0 | 0.70      | 38      |
| MF5W               |                   | 94             | 24.5    | 8.0 ± 1.0 | 0.70      | 35      |

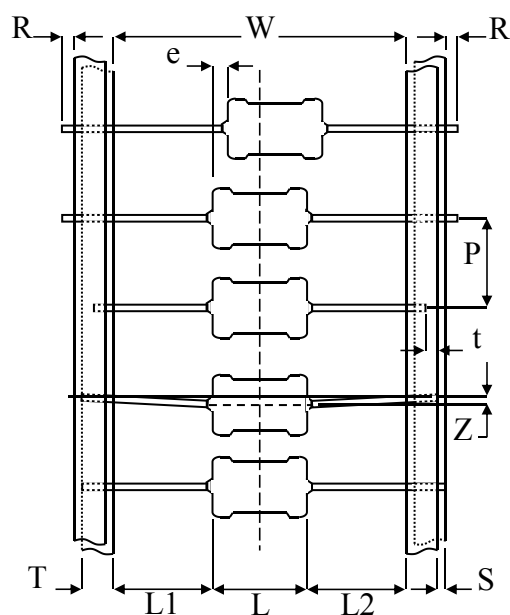


## MF/RJ 金属膜电阻器

## MF/RJ METAL FILM RESISTORS

### 5.2 带装 Axial Lead Taping

Txx Type



单位：mm

Unit：mm

| 种类 Type               |                   | 带状<br>Taping | 尺寸 Dimensions  |                |              |               |             |           |           |           |           |           |
|-----------------------|-------------------|--------------|----------------|----------------|--------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 普通型<br>Normal<br>Size | 小型化<br>Small Size |              | L              | W              | P            | L1-L2<br>Max. | T           | Z<br>Max. | R<br>Max. | t<br>Max. | e<br>Max. | S<br>Max. |
| 1/6W                  |                   | T52          | $3.2 \pm 0.5$  | $52 \pm 1.0$   | $5 \pm 0.5$  | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
| 1/4W                  | 1/2WS             | T26          | $6.5 \pm 0.5$  | $26^{+1}_{-0}$ | $5 \pm 0.5$  | 0.5           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
|                       |                   | T52          | $6.5 \pm 0.5$  | $52 \pm 1.0$   | $5 \pm 0.5$  | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
| 1/2W                  | 1WS               | T52          | $9.0 \pm 1.0$  | $52 \pm 1.0$   | $5 \pm 0.5$  | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
| 1W                    | 2WS               | T52          | $11.5 \pm 1.0$ | $52 \pm 1.0$   | $5 \pm 0.5$  | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
|                       |                   | T67          | $11.5 \pm 1.0$ | $67 \pm 1.0$   | $5 \pm 0.5$  | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
| 2W                    | 3WS               | T52          | $15.5 \pm 1.0$ | $52 \pm 1.0$   | $10 \pm 0.5$ | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
|                       |                   | T73          | $15.5 \pm 1.0$ | $73 \pm 1.0$   | $10 \pm 0.5$ | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
|                       |                   | T84          | $15.5 \pm 1.0$ | $84 \pm 1.0$   | $10 \pm 0.5$ | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
| 3W                    | 5WS               | T84          | $17.5 \pm 1.5$ | $84 \pm 1.0$   | $10 \pm 0.5$ | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |
| 5W                    |                   | T84          | $24.5 \pm 1.5$ | $84 \pm 1.0$   | $10 \pm 0.5$ | 1.0           | $6 \pm 0.5$ | 1.2       | 0         | 3.0       | 0.6       | 0.5       |

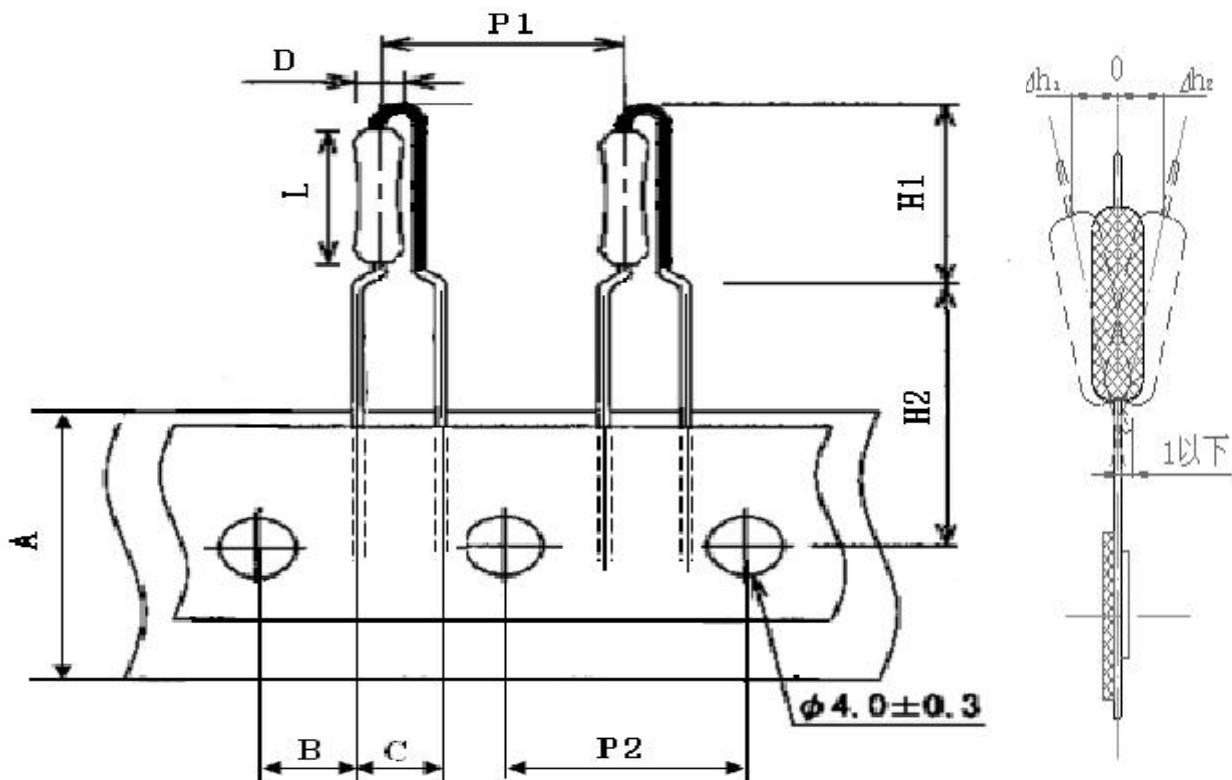


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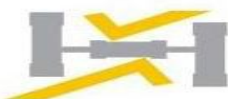
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5.3 FAT 立式编带形状适用于（1/2W、1WS、1W、2W、3W 功率电阻）

注：引线涂脚漆的客户下单需备注说明，否则默认为不涂装脚漆。



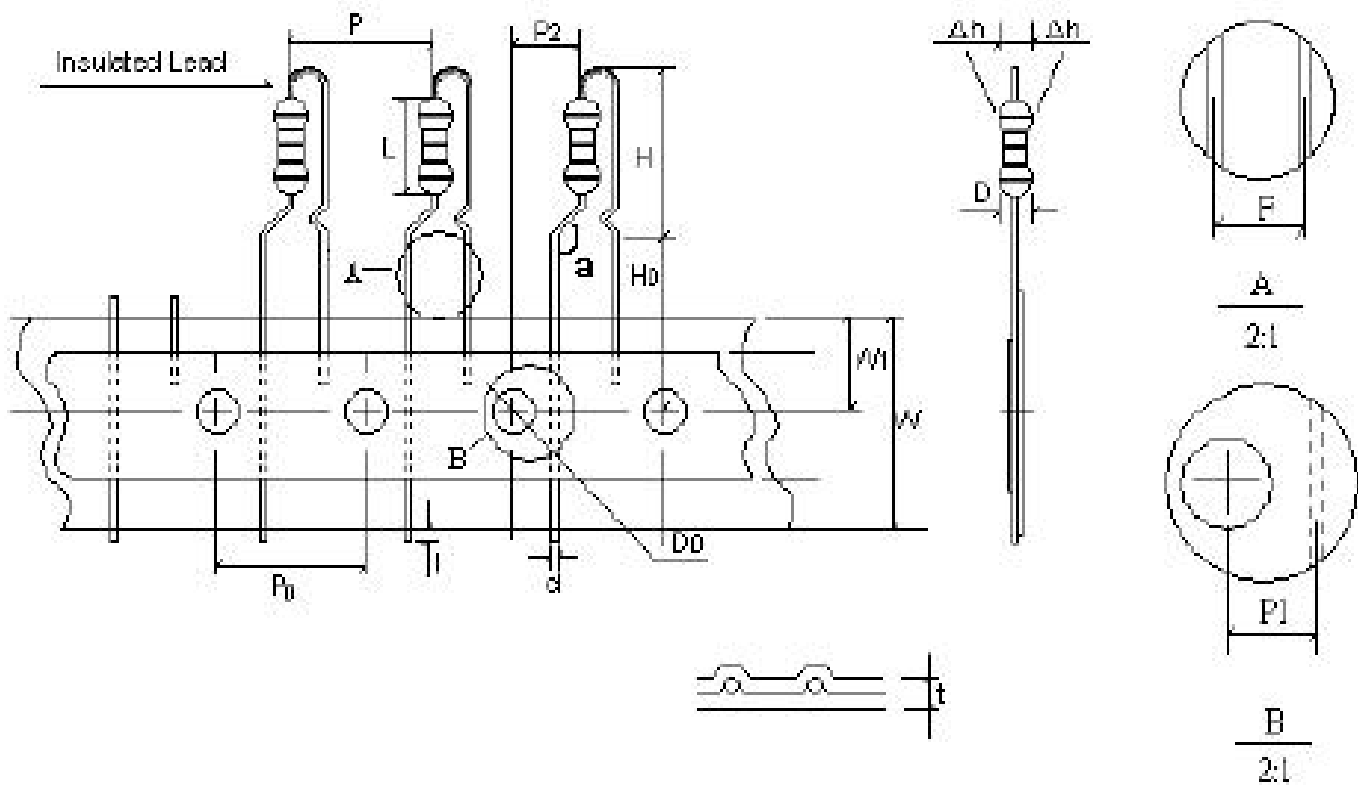
| 规格   | 尺寸 (mm)              |                |               |                |                |                 |                      |
|------|----------------------|----------------|---------------|----------------|----------------|-----------------|----------------------|
|      | A                    | B              | C             | P1             | P2             | H1              | H2                   |
| 1/2W | $18.0^{+1.0}_{-0.5}$ | $3.85 \pm 0.5$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $16.0 \pm 1.5$  | $16.0^{+1.0}_{-0.5}$ |
| 1WS  | $18.0^{+1.0}_{-0.5}$ | $3.85 \pm 0.5$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $16.0 \pm 1.5$  | $16.0^{+1.0}_{-0.5}$ |
| 1W   | $18.0^{+1.0}_{-0.5}$ | $3.85 \pm 0.5$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $16.0 \pm 1.5$  | $16.0^{+1.0}_{-0.5}$ |
| 2WS  | $18.0^{+1.0}_{-0.5}$ | $3.85 \pm 0.5$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $16.0 \pm 1.5$  | $16.0^{+1.0}_{-0.5}$ |
| 2W   | $18.0^{+1.0}_{-0.5}$ | $3.85 \pm 0.5$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.5$ | $21.5^0_{-2.0}$ | $16.0^{+1.0}_{-0.5}$ |
| 3WS  | $18.0^{+1.0}_{-0.5}$ | $3.85 \pm 0.5$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.5$ | $21.5^0_{-2.0}$ | $16.0^{+1.0}_{-0.5}$ |



MF/RJ 金属膜电阻器  
MF/RJ METAL FILM RESISTORS

5.4 FK2 内弯型，（1/2W、1WS、1W、2WS、3W 功率电阻）

注：引线需涂脚漆的下单需备注说明，否则默认为不涂装脚漆。



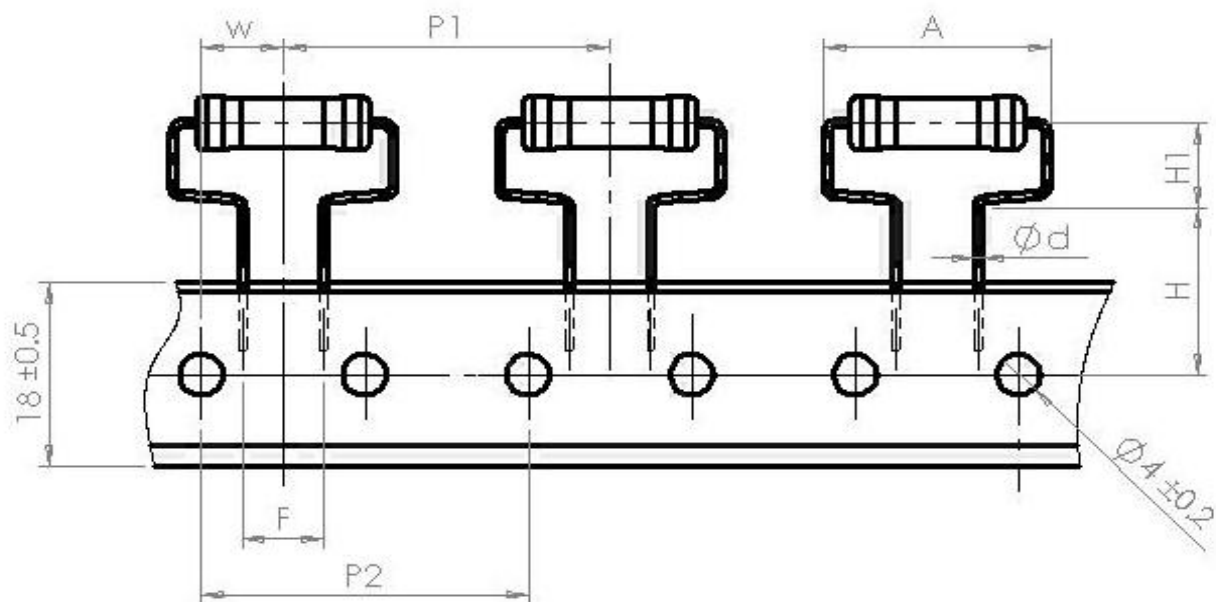
| 规格   | 尺寸 (mm)              |               |               |                |                |                |                   |                      |
|------|----------------------|---------------|---------------|----------------|----------------|----------------|-------------------|----------------------|
|      | W                    | DO            | F             | P              | PO             | P1             | H                 |                      |
| 1/2W | $18.0^{+1.0}_{-0.5}$ | $4.0 \pm 0.3$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $3.85 \pm 0.7$ | $16.0 \pm 1.5$    | $16.0^{+1.0}_{-0.5}$ |
| 1WS  | $18.0^{+1.0}_{-0.5}$ | $4.0 \pm 0.3$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $3.85 \pm 0.7$ | $16.0 \pm 1.5$    | $16.0^{+1.0}_{-0.5}$ |
| 1W   | $18.0^{+1.0}_{-0.5}$ | $4.0 \pm 0.3$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $3.85 \pm 0.7$ | $16.0 \pm 1.5$    | $16.0^{+1.0}_{-0.5}$ |
| 2WS  | $18.0^{+1.0}_{-0.5}$ | $4.0 \pm 0.3$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.3$ | $3.85 \pm 0.7$ | $16.0 \pm 1.5$    | $16.0^{+1.0}_{-0.5}$ |
| 2W   | $18.0^{+1.0}_{-0.5}$ | $4.0 \pm 0.3$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.5$ | $3.85 \pm 0.7$ | $21.5^{0}_{-2.0}$ | $16.0^{+1.0}_{-0.5}$ |
| 3WS  | $18.0^{+1.0}_{-0.5}$ | $4.0 \pm 0.3$ | $5.0 \pm 0.5$ | $12.7 \pm 0.5$ | $12.7 \pm 0.5$ | $3.85 \pm 0.7$ | $21.5^{0}_{-2.0}$ | $16.0^{+1.0}_{-0.5}$ |



## MF/RJ 金属膜电阻器

MF/RJ METAL FILM RESISTORS

5.5 MT 型卧式编带，适用余 2W、3W 功率

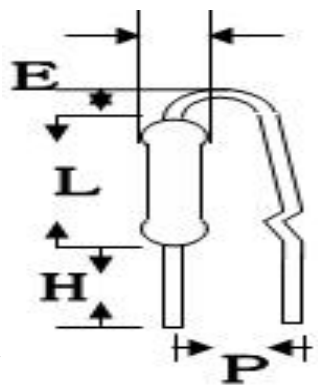


| 功率 | F              | W             | P1             | P2             | H          | H1            | AMax |
|----|----------------|---------------|----------------|----------------|------------|---------------|------|
| 2W | 5.0 $\pm$ 1.0  | 6.5 $\pm$ 1.0 | 25.4 $\pm$ 1.0 | 25.4 $\pm$ 1.0 | 18 $\pm$ 1 | 8.0 $\pm$ 1.5 | 21   |
| 3W | 10.0 $\pm$ 1.0 | 7.5 $\pm$ 1.0 | 30 $\pm$ 1.0   | 30 $\pm$ 0.5   | 17 $\pm$ 1 | 8.0 $\pm$ 1.5 | 21   |

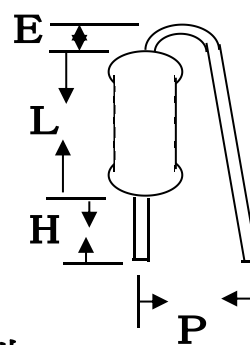


## MF/RJ 金属膜电阻器

## MF/RJ METAL FILM RESISTORS



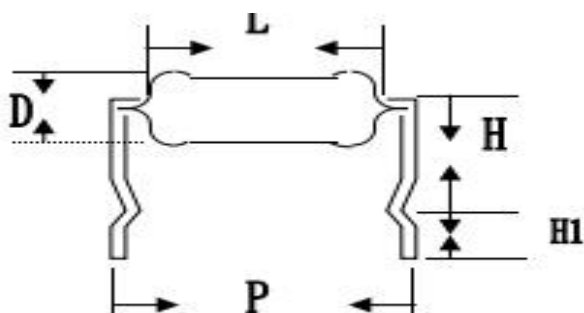
FK2 型



F 型

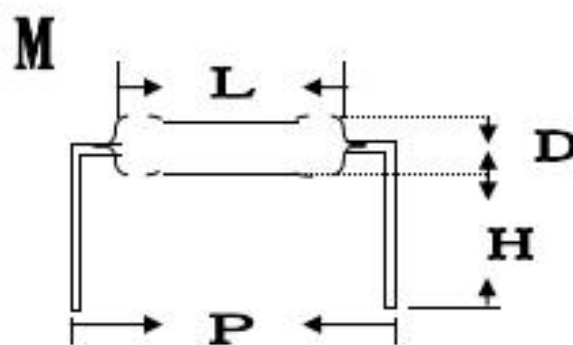
| 瓦特数<br>Watts | 尺寸 Dimensions (mm) |                |               |       |       |
|--------------|--------------------|----------------|---------------|-------|-------|
|              | $\phi D$           | L              | P             | E Max | H Max |
| 1/2w,1ws     | $3.2 \pm 0.5$      | $9.0 \pm 1.0$  | $6.0 \pm 2.0$ | 3.5   | 5.0   |
| 1w,2ws       | $4.5 \pm 1.0$      | $11.5 \pm 1.0$ | $9.0 \pm 2.0$ | 3.5   | 5.0   |
| 2w,3ws       | $5.0 \pm 1.0$      | $15.5 \pm 1.0$ | $9.0 \pm 2.0$ | 3.5   | 5.0   |
| 3w           | $6.0 \pm 1.0$      | $17.5 \pm 1.0$ | $9.0 \pm 2.0$ | 3.5   | 5.0   |

| 瓦特数<br>Watts | 尺寸 Dimensions (mm) |                |               |       |       |
|--------------|--------------------|----------------|---------------|-------|-------|
|              | $\phi D$           | L              | P             | E Max | H Max |
| 1/2w,1ws     | $3.2 \pm 0.5$      | $9.0 \pm 1.0$  | $6.0 \pm 2.0$ | 3.5   | 5.0   |
| 1w,2ws       | $4.5 \pm 1.0$      | $11.5 \pm 1.0$ | $9.0 \pm 2.0$ | 3.5   | 5.0   |
| 2w,3ws       | $5.0 \pm 1.0$      | $15.5 \pm 1.0$ | $9.0 \pm 2.0$ | 3.5   | 5.0   |
| 3w           | $6.0 \pm 1.0$      | $17.5 \pm 1.0$ | $9.0 \pm 2.0$ | 3.5   | 5.0   |



MK 型

| 瓦特数<br>Watts | 尺寸 Dimensions (mm) |                |                |       |               |
|--------------|--------------------|----------------|----------------|-------|---------------|
|              | D                  | L              | P              | H MAX | H1            |
| 1/2w,1ws     | $3.2 \pm 0.5$      | $9.0 \pm 1.0$  | $12.5 \pm 1.5$ | 10.0  | $4.0 \pm 0.5$ |
| 1w,2ws       | $4.5 \pm 1.0$      | $11.5 \pm 1.0$ | $15 \pm 1.5$   | 10.0  | $4.0 \pm 0.5$ |
| 2w,3ws       | $5.0 \pm 1.0$      | $15.5 \pm 1.5$ | $20 \pm 2.0$   | 10.0  | $4.0 \pm 0.5$ |
| 3W5WS        | $6.0 \pm 1.0$      | $17.5 \pm 1.5$ | $25 \pm 2.0$   | 10.0  | $4.0 \pm 0.5$ |



M 型

| 瓦特数<br>Watts | 尺寸 Dimensions (mm) |                |                |       |               |
|--------------|--------------------|----------------|----------------|-------|---------------|
|              | D                  | L              | P              | H MAX | H1            |
| 1/2w,1ws     | $3.2 \pm 0.5$      | $9.0 \pm 1.0$  | $12.5 \pm 1.5$ | 10.0  | $4.0 \pm 0.5$ |
| 1w,2ws       | $4.5 \pm 1.0$      | $11.5 \pm 1.0$ | $15 \pm 1.5$   | 10.0  | $4.0 \pm 0.5$ |
| 2w,3ws       | $5.0 \pm 1.0$      | $15.5 \pm 1.5$ | $20 \pm 2.0$   | 10.0  | $4.0 \pm 0.5$ |
| 3W5WS        | $6.0 \pm 1.0$      | $17.5 \pm 1.5$ | $25 \pm 2.0$   | 10.0  | $4.0 \pm 0.5$ |

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