



厚膜高压电阻器

Thick film high voltage Resistor

一、产品简介 Characteristics

1、体积小、重量轻。

Miniature and light weight.

2、性能稳定，可靠性高。

Stable electrical capability, high reliability.

3、最大工作电压 (DC) :10KV

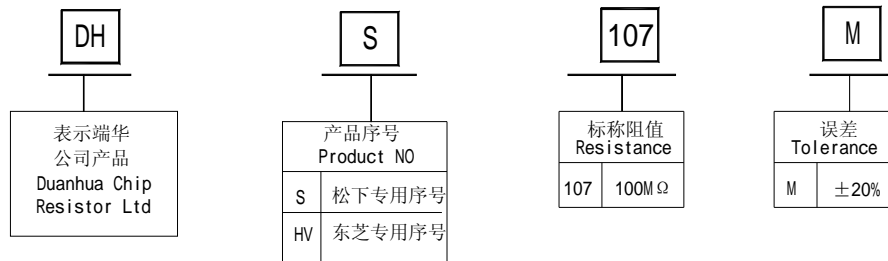
Max. operating voltage (DC) :10KV.

4、应用范围：微波炉等家电产品及变频器产品。

Application: micro-wave oven and so on.



二、定货方式 Order



三、外形尺寸 Shape Dimensions (单位 unit: mm)

1、外形 Shape

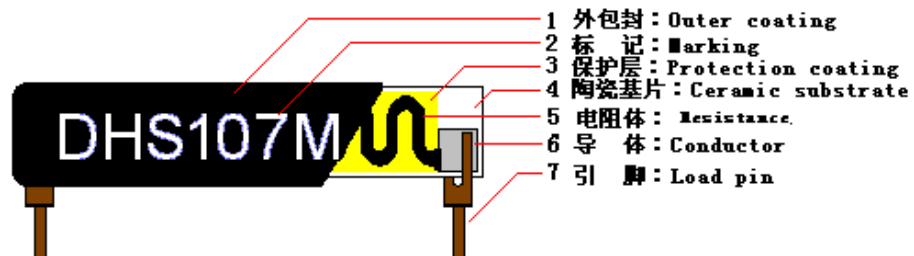


fig 1. 图1

2、尺寸 Dimension

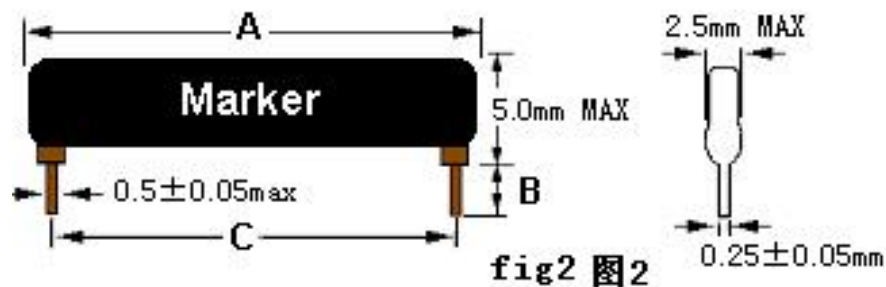


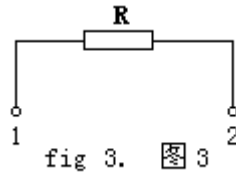
fig2 图2

| 产品序号 / 代号 | A | B | C | Marker |
|-----------|------------|-------------|---------------|-------------|
| DHS107M | 20.2mm MAX | 3.5 ± 0.5mm | 17.78 ± 0.3mm | DHS107M |
| DHHV107M | 32.0mm MAX | 4.5 ± 0.5mm | 27.94 ± 0.5mm | HV-30-100MM |



四、电路原理图 Circuite Construction and Characteristics

1、电路原理图 Circuite Construction



2、负荷下降曲线 Derating Curve

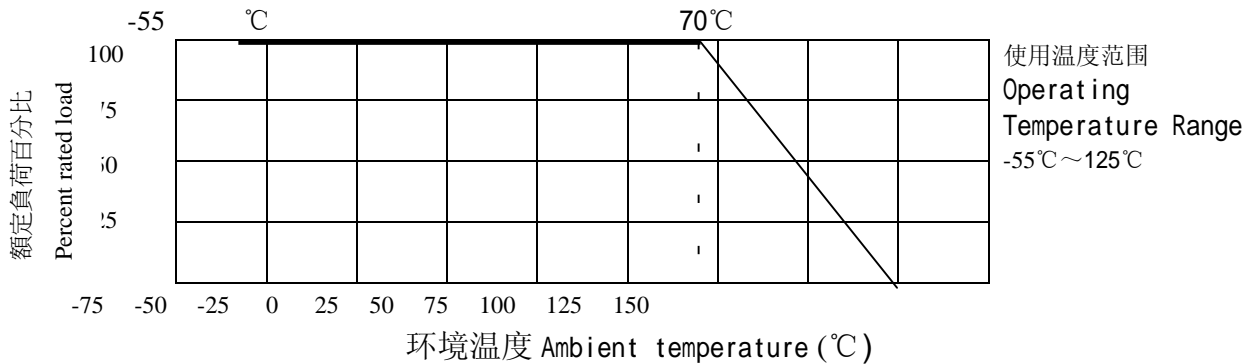


fig 4. 图 4

3、额定值 Ratings

| 项目 item | specification 特性 |
|----------------------------------|--|
| 额定功率 Rated power | 1W, When the ambient temperature exceed 70 °C ,the load power should be reduced as in fig 4. 1W, 当周围环境温度高于 70°C时, 负荷功耗曲线如图 4 所示 |
| 额定电压 Rated voltage | $E = \sqrt{P \cdot R}$ E: voltage 电压 (v), p: power 功率 (w), R: resistance 电阻 (Ω) |
| 最大工作电压 Max. operating voltage | 10KV |

4、电气性能 Electric Characteristic

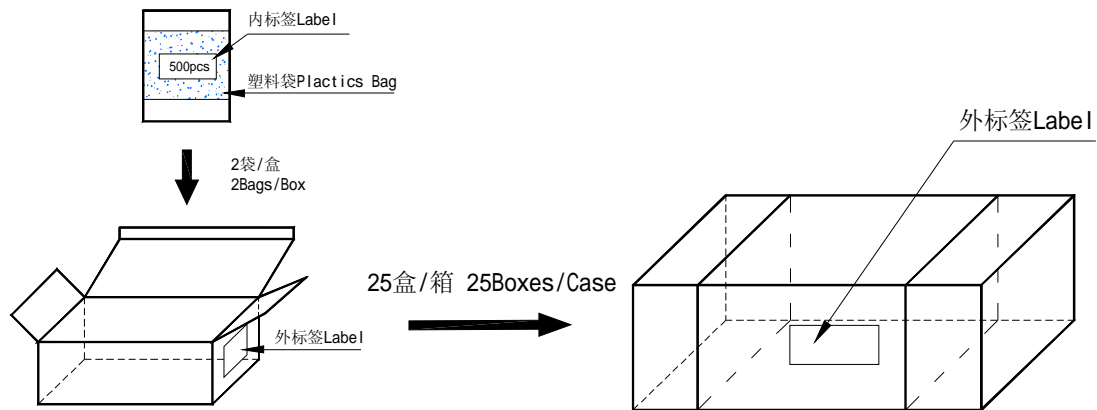
| Item 项目 | Standard 标准 | Test method (JIS C 5202) 试验办法 |
|---|--|--|
| 电阻值 Resistance value | 100M Ω ± 20% | T: 25 ± 2°C RH ≤ 65%. |
| 电阻温度系数 T.C.R | ± 250ppm/°C | Measured between -55°C ~ +125°C。 在 -55°C ~ 125°C 的温度范围测量。 |
| 包封绝缘耐电压 Coating insulation With standing Voltage | 无弧光, 燃烧及本体被击穿 No arc, inflammation and damage | 施加 500V DC, 保持 1 分钟。 Apply 500V DC for 1 min |
| 可焊性 Solderability | Coverage area ≥ 95% 上锡面积应 ≥ 95% | Tem: 235 ± 5°C, Time: 2 ± 0.5s 在 235 ± 5°C 的焊料槽内, 浸入时间 2 ± 0.5 秒。 |
| 耐溶剂性 Resistanceto solvent | 外观无损伤 No mechanical damage | 浸泡在三氯乙烯溶液中 10 ± 1 小时, 溶剂温度为 23 ± 2°C。 Dipping in chloroethylenef solution for 10 ± 1h, solution temperature: 23 ± 2°C |
| 阻燃性 Resistance to inflammation | V-0 | VL-94 |

5、性能 Mechanical Characteristic



| Item 項目 | Standard 标准 | Test method (JIS C 5202) 试验办法 |
|--------------------------|---|---|
| Pin strength 引线强度 | good appearance & no break and defec in resistance 外观良好,对电阻无损伤 | Speed : 10mm/s, pull: 1.0kg. 10mm/s平拉,拉力 1.0kg 止. |
| Bending strength 抗弯强度 | No mechanical damage 外观无可见损伤 | Force with 0.5kg on the terminal pin , between the resistor and the terminal pin is 90 degree ,duration :5S for 1 cycle 。 total 2 cycles 端子线末端负重 0.5kg ,使电阻器本体与端子线弯成 90° ,保持 5S,为一个循环。做 2 个循环 |
| Vibration 振动试验 | $\Delta R \leq \pm (1.0\%R + 0.05 \Omega)$ | 10HZ → 55HZ → 10HZ within 1 min. swing:1.55mm, three directions for X Y、Z for 2 hours 10HZ → 55HZ → 10HZ 1 分钟内完成,振幅 1.55mm,依上述方法 X、Y、Z 三个面各振动 2 小时 |

五、包装方式 Packaging



六、相关产品 Other Application

我公司也可以根据用户的要求，定制特殊规格的产品。

We can especially product for the client,if the client has special requirements to the products.