METAL OXIDE FILM RESISTORS(MOR)

●特点 Features:

1、耐温、抗氧化、热稳定好、不燃性、超负载稳定性好。
Good performance in moisture resistance, anti-oxidization, good thermal stability, nonflammability, overload stability.

2、使用环境温度Operating ambient temperature：-55℃~+155℃。

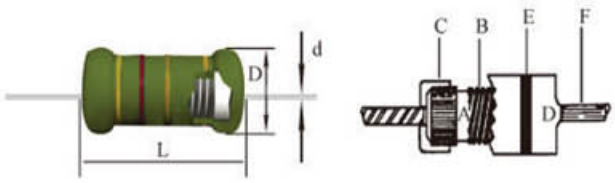
3、表面涂不燃性面漆，本体为灰色。
The surface is nonflammable, the normal size coating isgray.

4、阻值误差Resistance Tolerance：±2%、±5%。

5、可根据客户需要提供其它颜色涂层，砖红色或绿色。
Customized coating is availaible.

6、可提供更大体积的产品（5W—10W）
Rated power is uo to 10 Watt.

●产品结构图 Construction Drawing:

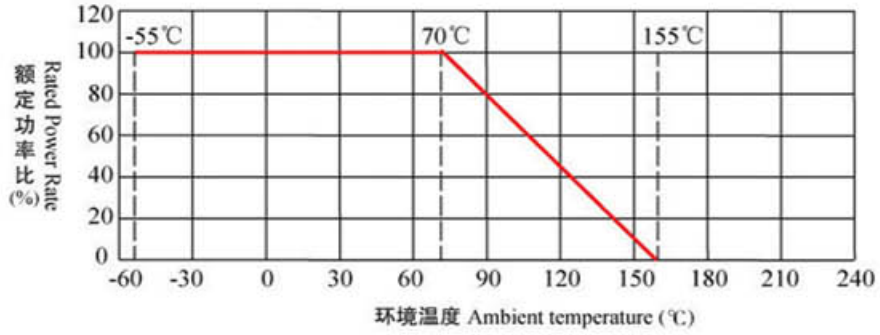


A、高热传导瓷芯 High heat exchanged Ceramic core.
B、高稳定性导电膜 High stability Electric conduction film.
C、铁帽 Iron Cap.
D、硅树脂涂料 Silicon resin coating.
E、色环 Color Ring.
F、镀锡铜线 Tinned copper lead wire

●规格尺寸及耐压性能 Dimensions and Voltage Performance:

料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions(mm)			最大工作电压 Max. working voltage	最大负荷电压 Max. overload voltage	最高脉冲电压 Max. Pulse voltage	最高绝缘电压 Max. insulation voltage
			L±1	D±0.5	d±0.05				
CMO016 MOR016	1/8W 1/6W	0R~1M	3.2	1.7	0.41	150V	300V	300V	200V
CMO14S MOR14S	1/4WS	0R~1M	3.2	1.7	0.41	150V	300V	300V	200V
CMO014 MOR014	1/4W	0R~1M	6.0	2.3	0.45 0.52	200V	400V	500V	250V
CMO12S MOR12S	1/2WS	0R~1M	6.0	2.3	0.45 0.52	200V	400V	500V	250V
MOR012	1/2W	0R1~1M	9.0	3.2	0.52	250V	400V	500V	250V
MOR01S	1WS	0R1~1M	9.0	3.2	0.58	350V	600V	750V	350V
MOR01B	1W	0R1~1M	11.0	4.5	0.75	350V	600V	750V	350V
MOR02S	2WS	0R1~1M	11.0	4.5	0.75	350V	600V	750V	350V
MOR02B	2W	0R1~1M	15.0	5.0	0.75	350V	600V	750V	350V
MOR03S	3WS	0R1~1M	15.0	5.0	0.75	350V	600V	750V	350V
MOR03B	3W	0R1~1M	17.0	6.0	0.75	500V	800V	1000V	500V
MOR05S	5WS	0R1~1M	17.0	6.0	0.75	500V	800V	1000V	500V

METAL OXIDE FILM RESISTORS(MOR)



●性能测试 Performance Test:

测试项目 Test Item	测试条件 Test Condition	性能 Performance
温度系数 Temperature coefficient	在常温及常温+100℃时分别测量电阻值并计算每度的阻值变化率。Test the resistance value at normal temperature and normal temperature added 100℃, calculate per ℃ resistance value change rate.	±350ppm/℃
短时间过负荷 Short time overload	施加2.5倍额定电压或最高负荷电压(取较小者)5秒。 2.5 × rated voltage or Max. overload voltage (get the lower) for 5 seconds.	ΔR ≤ ± (1%R_0+0.05Ω)
断续过负荷 Pulse overload	4倍额定电压或最高断续负荷电压(取较小者)测试1秒,停止25秒,循环10000±200次. At 4× rated voltage or Max. pulse overload voltage (get the Lower) cycle 10000±200 times (1 second on, 25 seconds off)。	ΔR ≤ ± (2%R_0+0.05Ω)
耐焊接热 Resistance to soldering heat	在350±10℃的锡炉中浸入2~3秒。 Immerge into the 350±10℃ tin stove for 2~3 seconds.	ΔR ≤ ± (1%R_0+0.05Ω)
可焊性 Solderability	在245±3℃锡炉中浸入2~3秒。 Immerge into the 245±3℃ tin stove for 2~3 seconds.	焊锡面积覆盖率95%以上 The soldering area is over 95%
温度循环 Temperature cycling	在-55℃时放置30分钟，然后在+25℃时放置10~15分钟，然后再在+155℃时放置30分钟，然后再在+25℃时放置10~15分钟，共循环5次。At -55℃ for 30 min, then at +25℃ for 10~15 min, then at +155℃ for 30 min, then at +25℃ for 10~15 min, total 5 cycles.	ΔR ≤ ± (1%R_0+0.05Ω)
耐湿负荷寿命 Load life in humidity	在温度为40±2℃，相对湿度为90~95%的恒温恒湿箱中，施加额定电压或最大工作电压（取较小者）共1000小时（通1.5小时,断0.5小时）。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 40±2℃ and 90~95% relative humidity.	ΔR ≤ ± (5%R_0+0.05Ω)
耐温负荷寿命 Load life in heat	在70±2℃恒温恒湿箱中施加额定电压或最大工作电压（取较小者）1000小时（通1.5小时,断0.5小时）。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 70±2℃.	ΔR ≤ ± (5%R_0+0.05Ω)
难燃性 Nonflammability	分别按5、10、16倍额定功率加交流负荷5分钟。Respectively load AC voltage by 5, 10, 16 times rated power for 5 mninutes.	不可有明显火焰 No visible flame

●料号规则 Part No. Regulation:

MOR	01B	J	0	T520	100R0
产品名称 Product Name	功率 Power	精度 Tol.	特殊码 Special Code	成型 Forming	阻值 Ohm
金属氧化膜固定电阻器 Metal Oxide Film Fixed Resistors MOR：铜引线 Copper Lead Wire CMO：CP 引线 CP Lead Wire	016 = 1/6W 016 = 1/8W 014 = 1/4W 14S = 1/4WS 012 = 1/2W 12S = 1/2WS 01B = 1W 01S = 1WS 02B = 2W 02S = 2WS 03S = 3WS	G = ±2% J = ±5%		T260 = T26 T520 = T52 T710 = T71 M001 = M F001 = F B001 = B	0R100 = 0.1Ω 0R220 = 0.22Ω 10R00 = 10Ω 10K00 = 10KΩ 1M000 = 1MΩ