

0

D

Weight (g)

(1000pcs)

120

215

360

Electrode cap

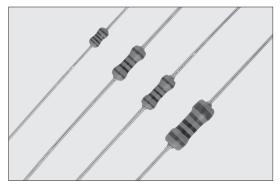
Lead wire

0±3

28

Resistive film

М F ■涂层绝缘型金属膜固定电阻器 **Coat-Insulated Fixed Metal Film Resistors**



外观颜色:浅灰色 Coating color: Light gray 表示: 颜色代码 Marking: Color code

■ 特点 Features

- ●是高精度、低T.C.R.的金属膜电阻器。
- ●可以自动插入。
- ●可以进行各种成形加工。
- 长期稳定性优异。
- ●符合欧盟RoHS。
- AEC-Q200相关数据已取得。(MF1/2除外)
- High precision and low T.C.R. metal film resistors.
- Automatic insertion is applicable.
- Various formings are available.
- Excellent stability for a long time.
- Products meet EU-RoHS requirements.
- AEC-Q200 qualified (Exempition MF1/2).

■ 品名构成 Type Designation

实例 Example











■ 结构图

表示

② 绝缘涂③ 调阻线

④ 陶瓷芯

■ 外形尺寸

刑문

Type

MFS1/4

MF1/4

MFS1/2

IEC 60115-2

JIS C 5201-2

EIAJ RC-2137

MF1/2

**:

Construction

Marking

Dimensions

 3.2 ± 0.2

6.3±0.5

9.0±1.0

引线长度按照成型和编带不同而改变。

C Max.

3.4

7.1

11.1

Lead length changes depending on taping and forming type.

■ 参考标准 Reference Standards

Insulation coating

Trimming line

Ceramic core

С

7

⑤ 电极帽

⑦ 电阻膜

d (Nominal)

0.45

0.6

Dimensions (mm)

D

 2.3 ± 0.3

1.7 +0

3.5±0.4

1002 公称电阻值 Nominal Resistance D, F: 4 digits G: 3 digits

阻值允许偏差 Resistance Tolerance D: ±0.5% F: ±1% G: ±2%

欲知关于此产品含有的环境负荷物质详情(除EU-RoHS以外),请与我们联系。 编带细节请参考卷末附录C。

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS. For further information on taping, please refer to APPENDIX C on the back pages.

■ 二次加工对应表 Taping & Forming Matrix

型号 Type	轴向编带 Axial Taping		径向编带 Radial Taping				U成形 U Forming	M成形 M Forming				
Type	T26	T52	VT	VTP	VTE	MT	U	M	15	M10	M12.5	M15
MFS1/4□C	0	0	0	_	-	0	0	M5F	M5R	-	-	-
MF1/4□C	0	0	0	0	0		0		-	M10F	M12.5R	
MFS1/2□C	0	0	0	0	0	-	-	-	_	M10R	-	-
MF1/2□C	-	0	-	-	-	-	-	-	-	-	M12.5R	M15R

□: T.C.R.

■ 额定值 Ratings

型号	额定功率 Power Rating	电阻温度系数 T.C.R. (×10°/K)	电阻值范围 Resistance Range(Ω)			最高使用电压	最高过载电压	耐电压 Dielectric	编带和包装数/AMMO包装 Taping & Q'ty/AMMO (pcs)	
Туре			D: ±0.5% E24 • E192	F:±1% E24 • E96	G: ±2% E24	Max. Working Voltage	Max. Overload Voltage	Withstanding Voltage	T26A	T52A
MFS1/4CC	0.25W	C: ±50	49.9~562k	10∼1M	-	250V	500V	300V	3,000	3,000
MFS1/4DC		D: ±100							3,000	3,000
MF1/4CC		C: ±50	- 10∼2.21M	10~2.21M	-			500V	2,000	2,000
MF1/4DC	0.25W	D: ±100							2,000	2,000
MF1/4LC		L: ±200		1.0~10	0.51~10				2,000	2,000
MFS1/2CC	0.5W	C: ±50	10∼1M	10~2.21M	10~2.21M		700V		2,000	2,000
MFS1/2DC	O.5W	D: ±100							2,000	2,000
MF1/2CC	0.5W	C: ±50	10~5.05M	10∼4.99M		350V		700V		2,000
MF1/2DC		D: ±100		10∼5.11M	_				=-	2,000
MF1/2LC		1 · +200		1.0~10	0.51~10				Ī	2 000

额定环境温度 Rated Ambient Temperature: +70℃

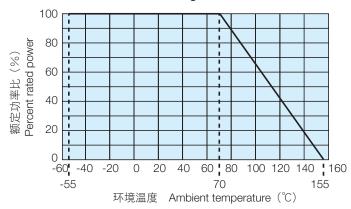
使用温度范围 Operating Temperature Range: -55℃~+155℃

额定电压是√额定功率×公称电阻值所算出的值或表中最高使用电压两者中小的值为额定电压。

Rated voltage = $\sqrt{\text{Power Rating} \times \text{Resistance value}}$ or Max. working voltage, whichever is lower.



■ 负荷减轻特性曲线 Derating Curve



在环境温度70℃以上使用时,应按照上图负荷减轻特性曲线,减小额定功率。 For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements ΔR± (%+0.05 Ω)		试验方法 Test Methods			
lest items	保证值 Limit	代表值 Typical	Test Metrious			
电阻值 Resistance	在规定的允许偏差内 Within specified tolerance	_	+25°C			
电阻温度系数 T.C.R.	在规定值以内 Within specified T.C.R.	_	+25°C/+125°C			
过载(短时间) Overload(Short time)	0.5	0.3	额定电压×2.5倍或最高过载电压低的一方施加5秒钟。: MFS1/4, MF1/4, MF1/2 额定电压×2倍或最高过载电压低的一方施加5秒钟。: MFS1/2 Rated voltage ×2.5 or Max. overload vol., whichever is lower, for 5s: MFS1/4, MF1/4, MF1/2 Rated voltage ×2 or Max. overload vol., whichever is lower, for 5s: MFS1/2			
耐焊接热 Resistance to soldering heat	0.75: MFS1/4 0.5: MF1/4, MFS1/2, MF1/2	0.4: MFS1/4 0.25: MF1/4, MFS1/2, MF1/2	260°C±5°C, 10s±1s			
温度突变 Rapid change of temperature	1.0	0.3	-55°C (30min.) /+155°C (30min.) 5 cycles			
耐湿负荷	1.5: MFS1/4	1: MFS1/4	40°C±2°C, 90%∼95%RH, 1000h			
Moisture resistance	1: MF1/4, MFS1/2, MF1/2	0.75: MF1/4, MFS1/2, MF1/2	1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle			
在70℃时的耐久性	1.5: MFS1/4	1: MFS1/4	70°C±2°C, 1000h			
Endurance at 70°C	1: MF1/4, MFS1/2, MF1/2	0.75: MF1/4, MFS1/2, MF1/2	1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle			

■ 使用注意事项 Precautions for Use

- 助焊剂等在本产品和安装的印刷电路板上附着离子性杂质时,其耐湿性•耐腐蚀性将受到影响。助焊剂内有时含有氯•酸等离子性物质,为除去这 些离子性物质应进行清洗。特别是使用无铅助焊剂时,由于湿润性提高了,有时会含有大量离子性物质,所以在使用RMA系的焊锡或助焊剂时, 应充分进行清洗。并且,保管环境和安装条件、环境等,附着了汗•盐等离子性物质时,其耐湿性•耐腐蚀性也将受到影响。对于这种污染,为了 除去这些离子性物质,应当进行清洗。
- Ionic impurities such as flux etc. that are attached to these products or those mounted onto a PCB, negatively affect their moisture resistance, corrosion resistance, etc. The flux may contain ionic substances like chlorine, acid, etc. Please wash them to get rid of these ionic substances especially when using leadfree solder that may contain much of the said substances for improving a wetting characteristic. Using RMA solder or RMA flux, or well-washing is needed. Also, attaching ionic substances such as perspiration, salt etc. by storage environments or mounting conditions/environments negatively affects their moisture resistance, corrosion resistance etc. Please wash them to remove the ionic substances when they are polluted.

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