

金屬皮膜電阻器

PRECISION METAL FILM RESISTORS

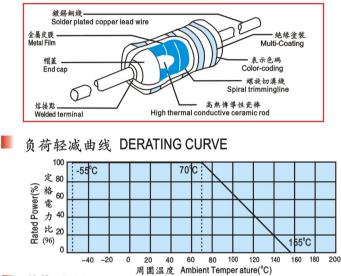


📕 制品介紹 INTRODUCTION

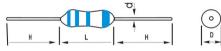
MF 金属皮膜电阻器属于高性能之精密电阻器,适用于精密电子回路。

MF, Metal film resistor, is a precise and functional resistor. it is suitable for applications on precise electronic circuits.

构造 CONSTRUCTION



■ 形状 STYLE



■ 尺寸 DIMENSIONS

- 特长 FEATURES
- 🔍 高安定性 High stability
- ◎ 低雜音・低温度系數 Low noise.Low temp.coefficient
- 精密特性 Precision characteris tics



■ 特性 CHARACTERISTICS

試驗項目 Test Items	規格值 Specified Value
温度系數 Temp.coefficient of resistance	±50,±100PPM/°C
短時間過負荷 Short time overload	± (0.5%+0.05Ω)
耐電壓 Dielectric withstanding voltage	無損壞的异狀 No evidence of damage
絶緣抵抗 Insulation resistance	Over 10⁴MΩ
端子强度 Terminal strength	無損壞的异狀 No evidence of damage
耐久性(耐濕負荷) Moisture load life	±(1.5%+0.05Ω)
耐久性(定格負荷)70℃ Load life at 70℃	±(2%+0.05Ω)
温度循環 Temper ature cycling	±(1%+0.05Ω)
焊錫耐熱性 Resistance to soldering heat	±(0.5%+0.05Ω)
焊錫附著性 Resistance to soldering heat	Over 95%
耐溶劑性 Resistance to solvent	無損壞的 <u></u> 界狀 No evidence of damage

形名 TYPE		Я	そ寸Dimen	sions (mm)		額定功率	最高工作電壓 Max Working	最高過負荷電壓 Max Overload	耐電壓 Dielectric	電阻值範圍
		L	D	d	Н	Power Rating	Voltage	Voltage	Withstanding Voltage	Resistance Range
	MF1/6W	3.2 ± 0.2	1.8±0.2	0.40 ± 0.02	25±3	0.16W	200V	300V	300V	0.1Ω~22M
	MF1/4W	6.5 ± 0.5	2.3 ± 0.3	0.43 ± 0.02	25±3	0.25W	250V	500V	500V	0.1Ω~22M
普通型 Normal size	MF1/2W	9.0±1.0	3.2 ± 0.5	0.50 ± 0.02	25±3	0.5W	350V	700V	500V	0.1Ω~22M
普通型 ormal siz	MF1W	12.0 ± 1.0	4.5 ± 0.5	0.65 ± 0.02	25±3	1W	500V	1000V	500V	0.1Ω~22M
調え	MF2W	15.5 ± 1.0	5.0 ± 1.0	0.72 ± 0.02	27±3	2W	500V	1000V	500V	0.1Ω~22M
	MF3W	17.5±1.0	6.0±1.0	0.72 ± 0.02	27±3	зw	500V	1000V	600V	0.1Ω~22M
	MF5W	24.5 ± 1.0	8.5±1.0	0.75 ± 0.02	27±3	5W	700V	1000V	750V	0.1Ω~22M
(D	MF1/4WS	3.2±0.2	1.8±0.2	0.40 ± 0.02	25±3	0.25W	200V	400V	300V	0.1Ω~22M
	MF1/2WS	6.5 ± 0.5	2.3 ± 0.3	0.43 ± 0.02	25±3	0.5W	250V	500V	500V	0.1Ω~22M
小型化 Small size	MF1WS	9.0±1.0	3.2 ± 0.5	0.50 ± 0.02	25±3	1W	350V	700V	500V	0.1Ω~22M
/\∄ Smal	MF2WS	12.0 ± 1.0	4.5 ± 0.5	0.65 ± 0.02	25±3	2W	500V	1000V	700V	0.1Ω~22M
0,	MF3WS	15.5 ± 1.0	5.0±1.0	0.72 ± 0.02	25±3	3W	500V	1000V	700V	0.1Ω~22M
	MF5WS	17.0 ± 1.0	6.0±1.0	0.72 ± 0.02	27±3	5W	500V	1000V	700V	0.1Ω~22M
	MF1/2W(SS)	3.2±0.2	1.8±0.2	0.40±0.02	25±3	0.5W	250V	500V	500V	0.1Ω~1M
超小型化 Super Mini- Size	MF1W(SS)	6.5±0.5	2.3±0.32	0.43±0.02	25±3	1W	350V	700V	500V	0.1Ω~1M
	MF2W(SS)	9.0±1.0	3.2±0.5	0.50±0.02	25±3	2W	500V	1000V	500V	0.1Ω~1M
岛UN	MF3W(SS)	12.0±1.0	4.5±0.5	0.65±0.02	25±3	3W	500V	1000V	500V	0.1Ω~1M
	MF5W(SS)	15.5±1.0	5.0±1.0	0.72±0.02	27±3	5W	500V	1000V	600V	0.1Ω~1M

NOTE:Specification can be constructed on request.

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金屬皮膜電阻器 PRECISION METAL FILM RESISTOR

TOL: $\pm 0.02\%$, $\pm 0.05\%$, $\pm 0.1\%$, 0.25%, $\pm 1\%$

 $TC: \pm 5PPM, \ \pm 10MMM, \ \pm 15PPM, \ \pm 25PPM, \ \pm 50PPM$

TYPE		MF1/8	MF1/4	MF 1/2	MF1W	MF2W	3	型號
MIL-R-	10509F	RN50	RN55	RN60	RN65071	RN70	美國標準 MIL-R-10509F	
DIN-4	44061	0204	0207	0411	0617	0719	西德工業標準 DIN-44061	
POWER	70⁰C	0.125	0.250	0.500	0.75	1.00	70⁰C	
RATING	100⁰C	0.067	0.110	0.173	0.350	0.610	100⁰C	額定功率 (W)
(W)	125°C	0.050	0.100	0.125	0.250	0.500	1250C	
MAX.WORKIN	MAX.WORKING VOLTAGE(V)		250	300	350	400		最大工作電壓 (V)

STANDARD RESISTANCE RANGE (Ω)

标准组值范围

TYPE		MF1/8	MF1/4	MF1/2	MF1W	MF2W		型 號	
P(±0.02%)	from		5	5	10	10	由	(±0.02%)-P	
1 (±0.0270)	to		1M21	1M21	2M	2M	到	(±0.0270)-1	
W(±0.05%)	from	100	5	5	10	10	由	(±0.05%)-W	
···(±0.0570)	to	100k	1M21	1M5	2M	2M	到		
B(±0.010%)	from	10	1	1	1	1	由	(±0.010%)-B	
	to	500k	1M5	2M5	5M	10M	到	(±0.01070)-D	
C(±0.25%)	from	10	1	1	1	1	由	(±0.25%)-C	
$C(\pm 0.23\%)$	to	600k	2M5	5M	10M	10M	到	(±0.2576)-C	
D(±0.50%)	from	10	1	1	1	1	由	(±0.50%)-D	
D(±0.5070)	to	800k	5M	10M	10M	10M	到	(±0.30%)-D	
F(±1.00%)	from	10	1	1	1	1	由	(±1.00%)-F	
1(±1.0070)	to	1M	10M	10M	10M	10M	到		
C7(±5ppm/°C)	from	10	10	10	10	10	由	(±5ppm/°C)-C7	
	to	1M	1M	1M	1M	1M	到	(±sppm/C)-C/	
$O(1+10,mm)^{0}O(1)$	from	100	10	10	10	10	由	(±10ppm/⁰C)-C6	
C6(±10ppm/°C)	to	100k	1M5	1M5	1M5	1M5	到		
C5(±15ppm/°C)	from	100	5	5	5	5	由	(±15ppm/°C)-C5	
	to	200k	1M5	1M5	1M5	1M5	到	(±15ppm/ C)-C5	
C3(±25ppm/°C)	from	10	5	5	5	5	由	(±25ppm/°C)-C3	
C3(±25ppm/C)	to	600k	2M5	2M5	2M5	2M5	到	(<u>-25ppm/C)-C5</u>	
C2(+50mmm/ ⁰ C)	from	10	5	5	5	5	由	(±50ppm/°C)-C2	
C2(±50ppm/°C)	to	1M	10M	10M	10M	10M	到	(±30ppm/C)-C2	

📕 訂貨方式 HOW TO ORDER



預定電力							
Power Rating							
Nomal Size	Small Size						
1/6W	1/4WS						
1/4W	1/2WS						
1/2W	1WS						
1W	2WS						
2W	3WS						

1/4W

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形狀/ 包裝方式							
	Form/ Packaging						
S.P	Bulk (Straight)						
М	Bulk. M-Form series (Horizontal Forming)						
U	Buld,U–Form series(Vertical Forming)						
Txx	Boxed (26.52.63.73.83mm width taping)						
T/R	Tape on reel packing						
U/T	Radial Taping						

TEO

	J		10K				
	誤差率		公稍電阻值				
Resistance	e Toler ance	N	Iominal Resistance				
J	±5%	3–1	Digit:E-24, 12 Series				
K	±10%	e.g.	OR12 = 0.12Ω				
M	±20%		$120R = 120\Omega$				
F	±1%		$1K2 = 1.2K\Omega$				
D	±0.5%						
С	±0.25%		12K = 12 KΩ				
B	±0.1%		$12M = 12M\Omega$				