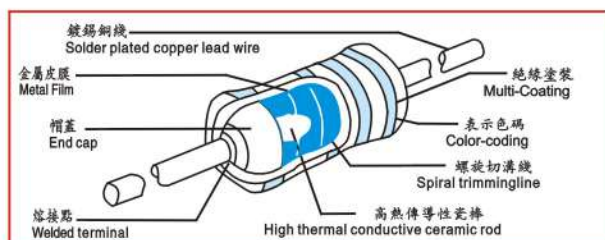


製品介紹 INTRODUCTION

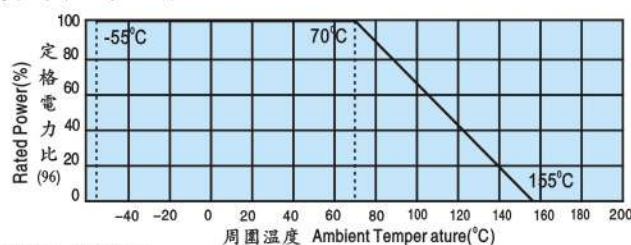
MF 金屬皮膜電阻器屬於高性能之精密電阻器，適用於精密電子回路。

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

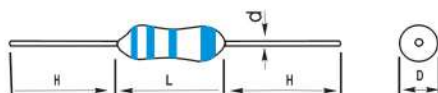
構造 CONSTRUCTION



負荷輕減曲線 DERATING CURVE



形狀 STYLE



尺寸 DIMENSIONS

形名		尺 寸 Dimensions (mm)				額定功率 Power Rating	最高工作電壓 Max Working Voltage	最高過負荷電壓 Max Overload Voltage	耐電壓 Dielectric Withstanding Voltage	電阻值範圍 Resistance Range
TYPE		L	D	d	H					
普通型 Normal size	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
	MF1/2W	9.0±1.0	3.2±0.5	0.50±0.02	25±3	0.5W	350V	700V	500V	0.1Ω~22M
	MF1W	12.0±1.0	4.5±0.5	0.65±0.02	25±3	1W	500V	1000V	500V	0.1Ω~22M
	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	3W	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
小型化 Small size	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
	MF1WS	9.0±1.0	3.2±0.5	0.50±0.02	25±3	1W	350V	700V	500V	0.1Ω~22M
	MF2WS	12.0±1.0	4.5±0.5	0.65±0.02	25±3	2W	500V	1000V	700V	0.1Ω~22M
	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
超小型化 Super Mini-Size	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
	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
	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.

特長 FEATURES

- 高安定性 High stability
- 低雜音・低溫度係數 Low noise. Low temp. coefficient
- 精密特性 Precision characteristics



特性 CHARACTERISTICS

試驗項目 Test Items	規格值 Specified Value
溫度係數 Temp. coefficient of resistance	±50, ±100 PPM/°C
短時間過負荷 Short time overload	±(0.5%+0.05Ω)
耐電壓 Dielectric withstanding voltage	無損壞的異狀 No evidence of damage
絕緣抵抗 Insulation resistance	Over 10 ¹⁰ MΩ
端子強度 Terminal strength	無損壞的異狀 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°C Load life at 70°C	±(2%+0.05Ω)
溫度循環 Temperature 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	無損壞的異狀 No evidence of damage

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

TC : $\pm 5\text{PPM}$ 、 $\pm 10\text{PPM}$ 、 $\pm 15\text{PPM}$ 、 $\pm 25\text{PPM}$ 、 $\pm 50\text{PPM}$

TYPE		MF1/8	MF1/4	MF1/2	MF1W	MF2W	型 號
MIL-R-10509F		RN50	RN55	RN60	RN65071	RN70	美國標準 MIL-R-10509F
DIN-44061		0204	0207	0411	0617	0719	西德工業標準 DIN-44061
POWER	70°C	0.125	0.250	0.500	0.75	1.00	70°C
RATING	100°C	0.067	0.110	0.173	0.350	0.610	100°C
(W)	125°C	0.050	0.100	0.125	0.250	0.500	1250C
MAX.WORKING VOLTAGE(V)		200	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($\pm 0.02\%$)	from		5	5	10	10	由
	to		1M21	1M21	2M	2M	到
W($\pm 0.05\%$)	from	100	5	5	10	10	由
	to	100k	1M21	1M5	2M	2M	到
B($\pm 0.010\%$)	from	10	1	1	1	1	由
	to	500k	1M5	2M5	5M	10M	到
C($\pm 0.25\%$)	from	10	1	1	1	1	由
	to	600k	2M5	5M	10M	10M	到
D($\pm 0.50\%$)	from	10	1	1	1	1	由
	to	800k	5M	10M	10M	10M	到
F($\pm 1.00\%$)	from	10	1	1	1	1	由
	to	1M	10M	10M	10M	10M	到
C7($\pm 5\text{ppm}/^\circ\text{C}$)	from	10	10	10	10	10	由
	to	1M	1M	1M	1M	1M	到
C6($\pm 10\text{ppm}/^\circ\text{C}$)	from	100	10	10	10	10	由
	to	100k	1M5	1M5	1M5	1M5	到
C5($\pm 15\text{ppm}/^\circ\text{C}$)	from	100	5	5	5	5	由
	to	200k	1M5	1M5	1M5	1M5	到
C3($\pm 25\text{ppm}/^\circ\text{C}$)	from	10	5	5	5	5	由
	to	600k	2M5	2M5	2M5	2M5	到
C2($\pm 50\text{ppm}/^\circ\text{C}$)	from	10	5	5	5	5	由
	to	1M	10M	10M	10M	10M	到

訂貨方式 HOW TO ORDER

MF	1/4W	T52	J	10K
種類 Type	預定電力 Power Rating	形狀/包裝方式 Form/ Packaging	電阻值誤差率 Resistance Tolerance	公稱電阻值 Nominal Resistance
	Normal Size Small Size	S.P Bulk (Straight)	J $\pm 5\%$	3-Digit: E-24, 12 Series
	1/6W 1/4WS	M Bulk, M-Form series (Horizontal Forming)	K $\pm 10\%$	e.g. OR12 = 0.12 Ω
	1/4W 1/2WS	U Bulk, U-Form series (Vertical Forming)	M $\pm 20\%$	120R = 120 Ω
	1/2W 1WS	Txx Boxed (26.52.63.73.83mm width taping)	F $\pm 1\%$	1K2 = 1.2K Ω
	1W 2WS	T/R Tape on reel packing	D $\pm 0.5\%$	12K = 12K Ω
	2W 3WS	U/T Radial Taping	C $\pm 0.25\%$	12M = 12M Ω
			B $\pm 0.1\%$	