

INTRODUCTION

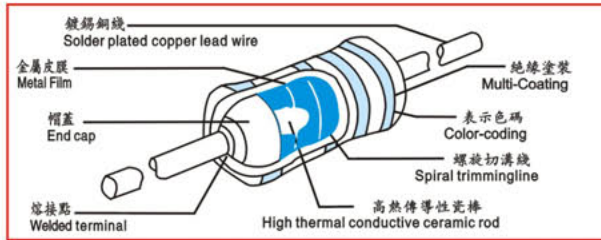
MF, Metal film resistor, is a precise and functional resistor. It is suitable for applications on precise electronic circuits.

FEATURES

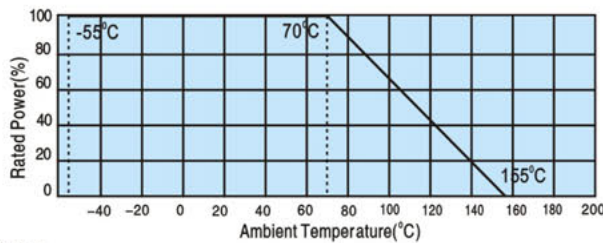
- High stability
- Low noise. Low temp. coefficient
- Precision characteristics



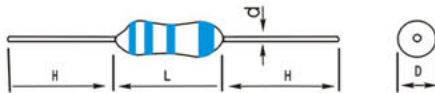
CONSTRUCTION



DERATING CURVE



STYLE



DIMENSIONS

		Dimensions (mm)				Power Rating	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Resistance Range
	TYPE	L	D	d	H					
Normal size	MF1/6W	3.2±0.2	1.8±0.2	0.40±0.02	25±3	0.16W	200V	400V	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	400V	800V	500V	0.1Ω~22M
	MF2W	15.5±1.0	5.0±1.0	0.72±0.02	23±3	2W	500V	1000V	500V	0.1Ω~22M
	MF3W	17.5±1.0	6.0±1.0	0.72±0.02	27±3	3W	750V	1200V	600V	0.1Ω~22M
Small size	MF5W	24.5±1.0	8.5±1.0	0.75±0.02	27±3	5W	900V	1400V	750V	0.1Ω~22M
	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	400V	800V	700V	0.1Ω~22M
	MF3WS	15.5±1.0	5.0±1.0	0.72±0.02	23±3	3W	500V	1000V	700V	0.1Ω~22M
Super Mini-Size	MF5WS	17.0±1.0	6.0±1.0	0.72±0.02	27±3	5W	750V	1200V	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
	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	400V	800V	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	750V	1200V	600V	0.1Ω~1M
	MF0.6W	6.5±0.5	2.3±0.3	0.43±0.02	25±3	0.6W	250V	500V	500V	0.1Ω~22M

NOTE: Specification can be constructed on request.



PRECISION METAL FILM RESISTORS

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

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

TYPE		MF1/8	MF1/4	MF 1/2	MF1W	MF2W	
MIL-R-10509F		RN50	RN55	RN60	RN65071	RN70	MIL-R-10509F
DIN-44061		0204	0207	0411	0617	0719	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	(V)

STANDARD RESISTANCE RANGE (Ω)

TYPE		MF1/8	MF1/4	MF1/2	MF1W	MF2W	
P($\pm 0.02\%$)	from		5	5	10	10	$(\pm 0.02\%)-P$
	to		1M21	1M21	2M	2M	
W($\pm 0.05\%$)	from	100	5	5	10	10	$(\pm 0.05\%)-W$
	to	100k	1M21	1M5	2M	2M	
B($\pm 0.1\%$)	from	10	1	1	1	1	$(\pm 0.10\%)-B$
	to	500k	1M5	2M5	5M	10M	
C($\pm 0.25\%$)	from	10	1	1	1	1	$(\pm 0.25\%)-C$
	to	600k	2M5	5M	10M	10M	
D($\pm 0.50\%$)	from	10	1	1	1	1	$(\pm 0.50\%)-D$
	to	800k	5M	10M	10M	10M	
F($\pm 1.00\%$)	from	10	1	1	1	1	$(\pm 1.00\%)-F$
	to	1M	10M	10M	10M	10M	
C7($\pm 5\text{ppm}/^\circ\text{C}$)	from	10	10	10	10	10	$(\pm 5\text{ppm}/^\circ\text{C})-C7$
	to	1M	1M	1M	1M	1M	
C6($\pm 10\text{ppm}/^\circ\text{C}$)	from	100	10	10	10	10	$(\pm 10\text{ppm}/^\circ\text{C})-C6$
	to	100k	1M5	1M5	1M5	1M5	
C5($\pm 15\text{ppm}/^\circ\text{C}$)	from	100	5	5	5	5	$(\pm 15\text{ppm}/^\circ\text{C})-C5$
	to	200k	1M5	1M5	1M5	1M5	
C3($\pm 25\text{ppm}/^\circ\text{C}$)	from	10	5	5	5	5	$(\pm 25\text{ppm}/^\circ\text{C})-C3$
	to	600k	2M5	2M5	2M5	2M5	
C2($\pm 50\text{ppm}/^\circ\text{C}$)	from	10	5	5	5	5	$(\pm 50\text{ppm}/^\circ\text{C})-C2$
	to	1M	10M	10M	10M	10M	