Metal Film Resistors

Introduction:

Deposit metal alloy onto the special treated ceramic in the ultra high vacuum. It gives ultra low figure with low temperature coefficient (T.C.) in three classes : 100 ppm, 50 ppm, 25 ppm/°C. Popular requirements of tolerance is 1%, and some require precision 0.5%, 0.25%, 0.1%. It is suitable for following applications: audio & video appliances, digital and analog computerized systems, precision instrument bridge circuits, auto controlled equipment, military devices and space program applications.

Features:

- ♦ Low noise & stable temperature
- ♦ High precision & reliable
- ♦ MIL-R-10509E approved.
- Variety of packaging: bulk, taped, tape and reel

Dimension (mm):



General Specifications:

Туре	Dimension (mm)				Power	Maximum	Maximum	Resistance Range +-1% (Ω)	
	L	D	Н	D±0.05	Rating	Working Voltage	Overload Voltage	TC + 50ppm TC + 100ppm	TC + 15ppm TC + 25ppm
MF-1/6W	3.2±0.2	1.5±0.2	28±1	0.48	1/6W	200	400	10~1M	100~100K
MF-1/4W	5.7±0.5	2.3±0.3	28±1	0.58	1/4VV	250	500	10~1M	51.1~511M
MF-1/2W	9.0±0.5	3.0±0.5	28±1	0.58	1/2W	350	700	10~1M	51.1~1M
MF-1W	11±1.0	4.0±0.5	35±3	0.70	1W	500	1000	10~1M	51.1~1M
MF-2W	15±1.0	5.0±0.5	35±3	0.80	2VV	500	1000	10~1M	51.1~1M

^{*} Standard resistance is $10\sim1M\Omega$, below or over this resistance can be supplied on request.

Characteristic:

Test Items	Condition	MAX△R	
Operating Temp.	-65℃~+175℃	-	
Dielectric Withstanding	Max Overload Voltage V Block 1 minute	0.25%	
nsulation Resistance	DC.500V V Block 1 minute	10,000ΜΩ	
Temp. Cycle	-65℃,25℃,150℃,25℃, 5 cycles.	0.25%	
Low Temp. Oper.	-65°C Rated Voltage 45 minutes	0.25%	
Moisture Resistance	10 cycles per MIL-STD-202 Method 106	0.5%	
Short Time Overload	2.5 times of rated voltage for 5 sec.	0.25%	
oad Life	70℃ on-off cycles 1,000 hrs.	0.5%	
Solder Pot	270℃ 3 sec.	0.1%	
Vibration	MIL-STD-202 Method 204	0.2%	
Terminal Strength	Direct Load. Twist test	0.1%	

^{*}Total resistance change: $(\triangle R\% + 0.05\Omega)$