

METAL FILM FIXED RESISTORS

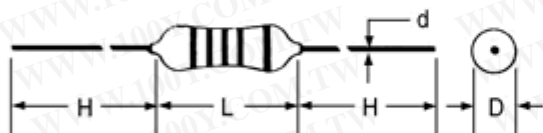
MF (EPOXY COATING TYPE)

FMF (FLAME-PROOF COATING TYPE)

INTRODUCTION

MF

To fill the function gap of carbon film resistors, metal oxide film resistors or wirewound resistors SYNTON-TECH makes metal film resistors. The resistive element is a high contests of AL2O3 ceramic rod on which a thin film of Ni/Cr alloy is deposited by vacuum sputtering system. Then contact caps are pressed onto the ends of the rod and a helical groove cut through the film to give the required resistance value. Connecting copper wire are welded to the end caps. Finally the resistors are coated with multiple layers of insulation lacquer. SYNTON-TECH's MF series are suitable for all circuit applications especially tighter tolerance and low temperature coefficient are required.



FEATURE

- Meet American military specification MIL-R-10509F1
- Very low current noise!
- Broad selection of temperature coefficient:
 $\pm 100\text{ppm}$, $\pm 50\text{ppm}$, $\pm 25\text{ppm}$, $\pm 15\text{ppm}$,
 $\pm 10\text{ppm}/^\circ\text{C}$
- Tolerance available: $\pm 5\%$, $\pm 2\%$, $\pm 1\%$, $\pm 0.5\%$,
 $\pm 0.25\%$, $\pm 0.1\%$, $\pm 0.05\%$, $\pm 0.01\%$
- Voltage available: 1/16W, 1/8W, 1/6W, 1/4W, 0.4W,
 1/2W, 0.6W, 1W, 2W, 3W
- Major applications are switching power supplies,
 communication equipments, monitors, testing
 meters.

FMF

Flame-proof metal film resistors are coated with layers of non-flame lacquer which is resistant to 800 °C high temperature and without causing crack, breakage, or even a fire hazard. SYNTON-TECH's FMF series are designed to replace metal oxide film resistors and wirewound resistors where when small size is needed.

SPECIFICATIONS

TYPE	POWER RATING @70°C	DIMENSIONS (mm)				MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE
		L	D	H	d			
MF-12	1/16W, 1/8W, 1/6W	3.5±0.3	1.8±0.3	25±3	0.45±0.05	200V	400V	*STANDARD 10Ω~1MegΩ
MF-25S	1/4W	3.5±0.3	1.8±0.3	25±3	0.45±0.05	250V	500V	
MF-40S	0.4W	3.5±0.3	1.8±0.3	25±3	0.45±0.05	350V	700V	
MF-25	1/4W	6.0±0.5	2.3±0.3	25±3	0.56±0.1	250V	500V	*SPECIAL low to 0.1Ω High to 30MegΩ
MF-50S	1/2W	6.0±0.5	2.3±0.3	25±3	0.56±0.1	350V	700V	
MF-60S	0.6W	6.0±0.5	2.3±0.3	25±3	0.56±0.1	350V	700V	
MF-50	1/2W	9.0±0.5	3.2±0.5	25±3	0.60±0.1	350V	700V	
MF-100S	1W	9.0±0.5	3.2±0.5	25±3	0.60±0.1	500V	1000V	
MF-100	1W	11±1.0	4.5±0.5	35±3	0.8±0.1	500V	1000V	
MF-200S	2W	11±1.0	4.5±0.5	35±3	0.8±0.1	500V	1000V	
MF-200	2W	15±1.0	5.0±0.5	35±3	0.8±0.1	500V	1000V	
MF-300S	3W	15±1.0	5.0±0.5	35±3	0.8±0.1	500V	1000V	

* FMF series have the same specifications as MF series except flame retardant.