

# FMF Series Flame-Proof Type Metal Film Resistors

## METAL FILM RESISTORS

### FLAME-PROOF TYPE FMF Series

1/4W, 1/2W, 1W, 2W  
FMF-25, FMF-50, FMF-100, FMF-200



### INTRODUCTION

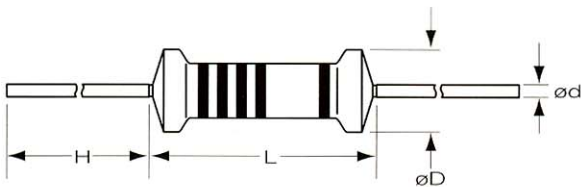
The FMF series flame-proof type Metal Film Resistors are manufactured by vacuum deposit metal film on high thermal conductivity ceramic rods, and are coated with layers of gray color flame-proof lacquer.

These FMF flame-proof metal film resistor is designed to replace the metal oxide resistors and low power wire wound resistors, where when flame-proof and small size is needed.

### FEATURES

- Power Rating: 0.25W, 0.5W, 1W, 2W.
- Resistance Tolerance:  $\pm 1\%$ ,  $\pm 5\%$ .
- T.C.R.:  $\pm 50\text{ppm}/^\circ\text{C}$ ,  $\pm 100\text{ppm}/^\circ\text{C}$ .
- Complete flameproof construction-UL 1412.
- Value range:  $1\Omega \sim 1\text{M}\Omega$

### DIMENSIONS:



STYLE	DIMENSION (mm)				POWER RATING (Watt)
	L	øD	H	ød	
FMF-25	6.0 $\pm$ 0.2	2.3 $\pm$ 0.3	28 $\pm$ 2	0.6 $\pm$ 0.05	1/4W
FMF-50	9.5 $\pm$ 0.5	3.2 $\pm$ 0.5	26 $\pm$ 2	0.6 $\pm$ 0.05	1/2W
FMF-100	11.0 $\pm$ 1.0	4.5 $\pm$ 0.5	35 $\pm$ 2	0.8 $\pm$ 0.05	1W
FMF-200	15.0 $\pm$ 1.0	5.0 $\pm$ 0.5	32 $\pm$ 2	0.8 $\pm$ 0.05	2W

### ELECTRICAL CHARACTERISTICS:

Style	FMF-25	FMF-50	FMF-100	FMF-200	—	—
Power Rating 70°C	1/4W	1/2W	1W	2W	—	—
Operating Temp. Range	-55°C ~ +155°C					
Max. Working Voltage	250V	350V	500V	500V	—	—
Max. Overload Voltage	500V	700V	1000V	500V	—	—
Dielectric Withstanding Voltage (AC)	500V	700V	1000V	1000V	—	—
Max. Intermittence Overload Voltage	300V	500V	1000V	1000V	—	—
Value Range $\pm 1\%$ , $\pm 5\%$	10 $\Omega$ ~1M $\Omega$					
Temp. Coefficient (by Type)	$\pm 50\text{ppm}$ , $\pm 100\text{ppm}$					

FIG.1 DERATING CURVE

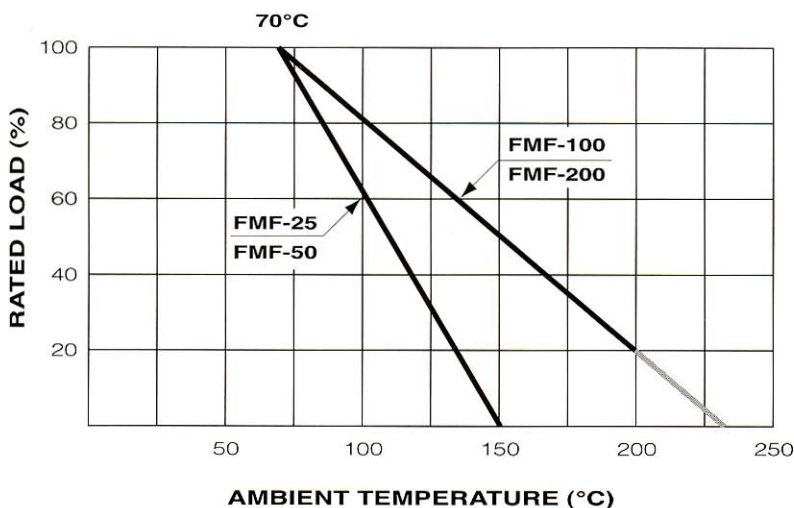


FIG.2 HOT-SPOT TEMPERATURE

