

# PRECISION FIXED METAL FILM RESISTORS

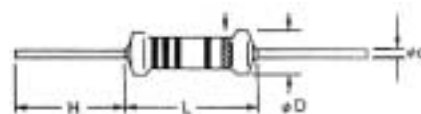
High Stability

KOME

**POWER RATING:** 1/6W, 1/4W, 1/2W, 1W, 2W

**TOLERANCE:** 0.1%, 0.25%, 0.5%, 1%, 5%

**TEMPERATURE COEFFICIENT:** ±15ppm, ±25ppm, ±50ppm, ±100ppm



## HOW TO ORDER

KMF	25	J	2	100	BP		
Product Code	Type	Tolerance		Total Ch.	Value	Packaging	
Fix Wire Wound resistor	12 1/6W	F ±1%	No. of Total Character (100=10Ω=2)	E-24 : Significant figures + number of zeros	BP Bulk packaging		
	25 1/4W	J ±5%		E-96 : No. of character + Significant figures + number of Zeros	AP AMMO packaging		
	50 1/2W	K ±10%		Example			
	100 1W			E-24 1R0 = 1Ω, 103 = 10KΩ			
	200 2W			E-96 5 1002 = 10KΩ			
	500 5W			E-96 6 1003 = 100KΩ			
	10A 10W			Letter R is decimal point			
				Jumper is expressed by 000			

## DIMENSIONS

TYPE	Dimension (mm)			
	L	D	H	d
MF-1/6W	3.8±0.3	2.1±0.2	28±3.0	0.48±0.03
MF-1/4W	6.4±0.5	2.5±0.3	28±3.0 28±3.0	0.60±0.03
MF-1/2W	10±0.5	4.0±0.5	28±3.0	0.60±0.03
MF-1W	13±1.0	5.0±0.5	28±3.0 28±3.0	0.65±0.03
MF-2W	16±1.0	6.0±0.5	28±3.0	0.70±0.03

## GENERAL SPECIFICATION

TYPE	Mil Style	Power Rating		Max Working Voltage		Max Overload Voltage	
		70°C	125°C	70°C	125°C	70°C	125°C
MF-1/6W	RN-50	0.166W	0.05W	200	150	400	300
MF-1/4W	RN-55	0.25W	0.1W	250	200	500	400
MF-1/2W	RN-60	0.5W	0.125W	350	250	700	500
MF-1W	RN-65	1W	0.25W	500	300	1000	600
MF-2W	RN-70	2W	0.5W	500	350	1000	700

## CHARACTERISTICS AND COMPARISON

Requirements		MF Series % Change in Resistance (ΔR)					Mil-R-22684 Style RL Requirement	Mil-R-10509 Chart C,E Requirement
		MF-1/6W	MF-1/4W	MF-1/2W	MF-1W	MF-2W		
Temperature Cycling, -65°C to +150°C	(%)	±0.25	±0.25	±0.25	±0.25	±0.25	≤1.00	≤0.25
Low Temperature Operation, -65°C	(%)	±0.25	±0.25	±0.25	±0.25	±0.25	≤0.50	≤0.25
Short Time Overload	(%)	±0.25	±0.20	±0.20	±0.25	±0.20	≤0.50	≤0.25
Terminal Strength, 5lb. Pull	(%)	±0.20	±0.20	±0.20	±0.15	±0.15	≤0.50	≤0.20
Resistance to Soldering Heat, +350°C	(%)	±0.10	±0.10	±0.10	±0.10	±0.10	≤0.50	≤0.10
Moisture Resistance, Mil Std. 202	(%)	±0.50	±0.50	±0.50	±0.50	±0.50	≤1.50	≤0.50
Life 1000 Hours (Rated Power)	(%)	±0.50	±0.50	±0.50	±0.50	±0.50	≤2.00	≤0.50
Vibration – High frequency, 10-2000Hz	(%)	±0.25	±0.20	±0.20	±0.20	±0.20	≤0.50	≤0.25
Insulation Resistance		≥10 <sup>10</sup> Ω	≥10 <sup>10</sup> Ω	≥10 <sup>10</sup> Ω	≥10 <sup>10</sup> Ω	≥10 <sup>10</sup> Ω	≥10 <sup>9</sup> Ω	≥10 <sup>9</sup> Ω

# PRECISION FIXED METAL FILM RESISTORS

High Stability

KOME

## RESISTANCE RANGE

Type	Tolerance	TC+15ppm / -20ppm	TC±50ppm	Remark
MF-1/6W	±1% ±0.5% ±0.25% ±0.1%	100Ω - 100KΩ 100Ω - 100KΩ 100Ω - 100KΩ 100Ω - 100KΩ	1Ω - 10MΩ 51.1Ω - 200KΩ 51.1Ω - 200KΩ	*Standard resistance is 10Ω - 1MΩ Below or over this Resistance on Request
MF-1/4W	±1% ±0.5% ±0.25% ±0.1%	51.1Ω - 511KΩ 51.1Ω - 511KΩ 100Ω - 330KΩ 100Ω - 100KΩ	1Ω - 10MΩ 10Ω - 1MΩ 51.1Ω - 330KΩ	
MF-1/2W	±1% ±0.5% ±0.25% ±0.1%	51.1Ω - 1MΩ 51.1Ω - 1MΩ 100Ω - 511KΩ 100Ω - 330KΩ	1Ω - 10MΩ 10Ω - 1MΩ 51.1Ω - 511KΩ	
MF-1W	±1% ±0.5% ±0.25% ±0.1%	51.1Ω - 1MΩ 51.1Ω - 1MΩ 100Ω - 511KΩ 100Ω - 330KΩ	1Ω - 10MΩ 10Ω - 1MΩ 51.1Ω - 511KΩ	
MF-2W	±1% ±0.5% ±0.25% ±0.1%	51.1Ω - 1MΩ 51.1Ω - 1MΩ 100Ω - 511KΩ 100Ω - 330KΩ	1Ω - 10MΩ 10Ω - 1MΩ 51.1Ω - 511KΩ	

### REMARKS:

Special lead length (H) on request.  
Flameproof type also available

Special resistance, temperature coefficient and tolerance on request  
Miniature type also available for 1/4W and 1/2W. Type 1/4WS and 1/2WS