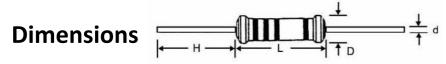
MINIATURE SIZE METAL FILM FIXED RESISTORS

(FM SERIES)

- 1. Miniature size for saving PCB assembly.
- 2. Manufactured by high vacuum sputtering deposit metal film on high aluminum content ceramic rods.
- 3. Superior electrical performance and cost comparable to covensional size.
- 4. Standard tolerance: ± 1%

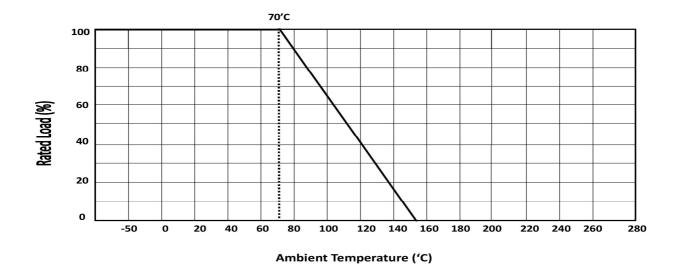


General Specification

Style	Power Rating(W)	Dimensions				Max Working V.*	Max Overload V.	*Resistance Range 1%
	70°C	L	D	d	H (MIN)			
FM-0204	0.4W	3.7 ± 0.4	1.7± 0.2	0.45 ± 0.05	27	200V	350V	10Ω~1MEG
FM-0207	0.6W	6.5 ±0.5	2.3 ±0.2	0.50 ± 0.05	27	350V	500V	10Ω~1MEG
FM-01	1W	6.5 ±0.5	2.3 ±0.2	0.55 ± 0.05	27	350V	500V	10Ω~1MEG
FM-02	2W	10.5 ± 1	3.5 ± 1	0.75 ± 0.05	25	350V	700V	10Ω~1MEG
FM-03	3W	16.0 ± 1	5.5 ± 0.5	0.75 ± 0.05	25	350V	700V	10Ω~1MEG

^{*}Max working voltage determinad by E= \sqrt{PR} , E Should not exceed value listed in column above *Ohmic values beyond 10 Ω - 1M and closer tolerance up to 0.1% are available upon request.

Derating Curve







Characteristics

Requirements	Characteris			
Tamananahuna	± 25PPM	10 ⁻⁶ / °C		
Temperature	± 50PPM	MIL-STD-202		
Coefficent	± 100PPM	METHOD-304		
Life Stability				
At 70 $^{\circ}\mathrm{C}$	0.5%	At Most Vmax. 1.5 hr on 0.5 hr off		
1000 Hr Max.	0.5%			
Resistance Change				
Dielectric	300 Vr.m.s.for FM-0204			
Withstanding Voltage	500 Vr.m.s.for FM-0207,FM-01			
Insulation Resistance	>10 MΩ	100VDC		
Damp Heat		56Days At 40° and 95° Relative		
Steady State	±1%	humidity at a voltage of 0.1 times		
		rated voltage. Max 16 Volts		
Short time Overload	±0.5%	2.5 times rated voltage, at most 2		
Short time Overload	±0.5%	times limiting element voltage (U Max)		
Moisture Resistance	±1.5%	40±2 ℃ , 95% RH, 1000hrs		
Resistance to	±0.5%	350±5 $^{\circ}$ C to 6mm distance from the		
Soldering Heat	±0.570	ressitance body in 3 sec.		
Temperature Cycling	±0.5%	- 55 to +155 ℃		
Low Temperature	±0.5%	 - 65°C		
Operation	±0.570	- 63 (
Vibration	±0.5%			
Current Noise	Up to $1M\Omega \leq 0.5 \frac{uV}{V}$	- 5dB		
Solderability	>95% coverage	Dipping in 260°C Solder		
•		bath for 2.5 sec		
Resistance to Solvents	No failure to top coating and			
	color code			

Parts Nu	umber s	vstem
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i arts italliber system								
FM	_	0207	1002	F	T	Е		
FM Miniature size metal film resistor		Wattages	Resistance	Tolerance	packaging codes	T.C.R.		
	'		4-digit code for \leq 1%	J= 5%	T=AMMO tape / box	K=100 ppm		
			1002= 10K ohm	F= 1%	R=Tape reel	C=50 ppm		
			3-digit code for 5%	D= 0.5%	B=Bulk pack	E=25 ppm		
			103= 10K ohm	B= 0.1%		T=10 ppm		
					-	No TCR		
						marked on		
						P/N for 5%		
						tolerance		

Note:

- 1. 26, 25, 63 and 73MM taping are available for different wattages.
- 2. Flameproof coating for FM01, FM02 and FM03.
- 3. Resistance range 0.1% $10\Omega^{\sim}150k$ ohm.



