LEAD FREE

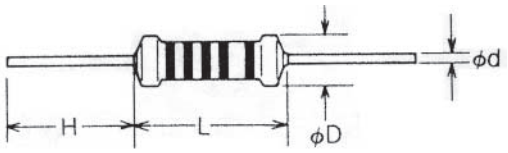
Professional Series
FM0204, FM0207, ±2%, ±5%

Miniature Type

INTRODUCTION

1. MEGASTAR-OHM miniature size resistors 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 conventional sizes.
4. Standard tolerance: ±5%
5. Flameproof Coating meets UL94

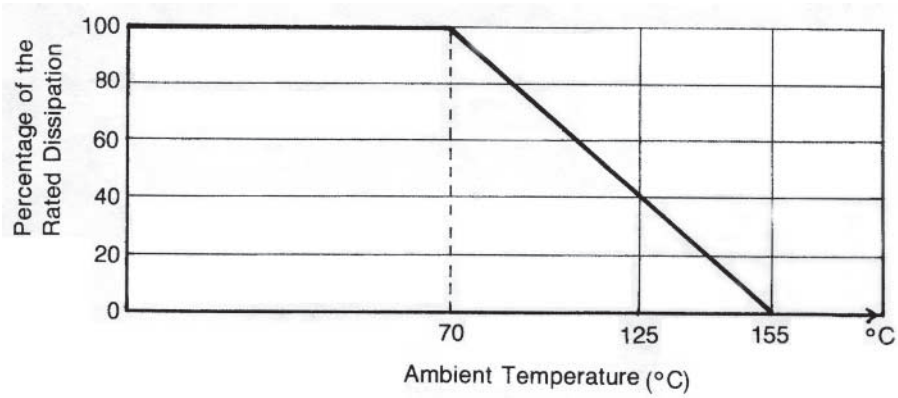
Dimensions



General Specifications

Type	Power Rating (W) 70°C	Tolerance	L	D	H(MIN)	d	Max Working Voltage	Max Overload Voltage	Resistance Range
FM0204 FM0207	0.4W 0.6W	±2%, ±5% ±2%, ±5%	3.7±0.4 6.5±0.5	1.5±0.2 2.3±0.2	27 27	0.45±0.2 0.56±0.2	200V 350V	350V 500V	E_{24}

Derating Curve



Part Numbering System

FM0207 | 5% | 2K20 | TR

Type
FM0204 FM0207

Tolerance
±2%
±5%

Nominal Resistance	
Code	Description
1R00	1.0 Ω
200R	200 Ω
10K0	10.0K Ω

Packaging	
Code	Description
B	Bulk
TR	Tape & Reel

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FM0204, FM0207, ±2%, 5%
MRS16S, MRS25, ±0.1%, ±0.5%, ±1.0%

CHARACTERISTICS

Requirements	Characteristics	Remarks
Temperature Coefficient	±50ppm	10-6/K MIL-STD-202 Metrob 304
Thermal Resistance	140 $\frac{K}{W}$	
Life Stability At 70°C 1000 Hr. Max. Resistance Change	0.5%	K Most Umax. 1.5 hr ON 0.5 hr OFF
Dielectric Withstanding Voltage	300 Vr.m.s. for 0.4W 500 Vr.m.s. for 0.6W	
Insulation Resistance	$>10^3$MΩ	100VDC
Damp Heat Steady State	±0.5%	56 days at 40°C and 93% relative humidity at a voltage of 0.1 times rated voltage. Max 16 volts.
Short-time Overload	^{3}R±0.25%	2.5 times rated voltage, at most 2 times limiting element voltage (U max)
Moisture Resistance	±0.5%	
Resistance to Soldering Heat	±0.25%	350±5°C to 6mm distance from the resistance body in 3 sec.
Temperature Cycling	±0.5%	-55°C to +155°C
Low Temperature Operation	±0.25%	High frequency, 10-500Hz
Vibration ±	0.25%	-65°C
Current Noise	up to 1MΩ<=0.5 $\frac{\mu V}{V}$	-5dB
Solderability	>95% coverage d	ipping in 235°C solder bath for 2.5 sec.
Resistance to Solvents	No failure to top coating and color code	
Terminal Strength	±0.25%	tensile, bending and torque
Failure Rate <	10^{-9}/H	