METAL FILM FIXED RESISTORS

LEAD FREE

FM0204, FM0207

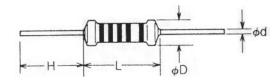
Professional Series FM0204, FM0207, ±2%, ±5%

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. The 0.6 watts meet a severe overload test in accordance with UL specification #1412* without fire hazard.

Dimensions

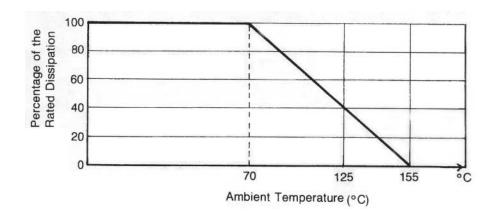


* UL-1412 is the standard for fusing resistors and temperature-limited resistors.

General Specifications

Туре	Power Rating (W) 70°C	Tolerance	L	D	H(MIN)	d	Max Working Voltage	Max Overload Voltage	Resistance Range
FM0204	0.4W	±2%, ±5%	3.7±0.4	1.5±0.2	27	0.45±0.2	200V	350V	E ₂₄
FM0207	0.6W	±2%, ±5%	6.5±0.5	2.3±0.2	27	0.56±0.2	250V	500V	

Derating Curve



Part Numbering System

FM0207

Туре	
FM0204 FM0207	

5%

Tolerance
±2%
±5%

2K20

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

<u>TR</u>

Packaging					
Code	Description				
В	Bulk				
TR	Tape & Reel				

METAL FILM FIXED RESISTORS

MRS16S, MRS25

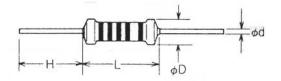
Professional Series MRS16S, MRS25, ±0.1%, ±0.5%, 1.0%

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: ±1%
- 5. The 0.6 watts meet a severe overload test in accordance with UL specification #1412* without fire hazard.

Dimensions

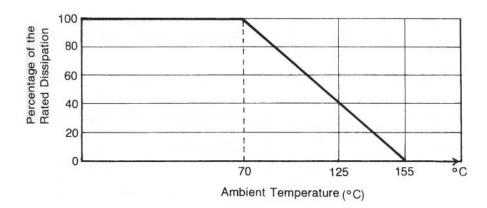


* UL-1412 is the standard for fusingresistors and temperature-limited resistors.

General Specifications

Туре	Power Rating (W) 70°C	Tolerance	L	D	H(MIN)	d	Max Working Voltage	Max Overload Voltage	Resistance Range
MRS16S MRS25	0.4W 0.6W	0.1% 0.5% 1.0%	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 250V	350V 500V	E ₉₆

Derating Curve



Part Numbering System

<u>MRS25</u>

Type
MRS16S MRS25

1002

Nominal Resistance				
Code	Description			
1002	10.0 KΩ			
10R0 10.0 KΩ				
4 <u>Digits</u> 3 first significant digits plus multiplier				

F

Tolerance					
В	±0.1%				
D	±0.5%				
F	±1.0%				

Τ

Packaging				
Code	Description			
В	Bulk			
Т	Tape & Reel			

Megastar-Ohm 75



Professional Series 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 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 ΜΩ	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	³R±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%	-65°C to +155°C
Low Temperature Operation	±0.25%	High frequency, 10-500Hz
Vibration ±	0.25%	-65°C
Current Noise	up to 1M Ω <=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°/H	