



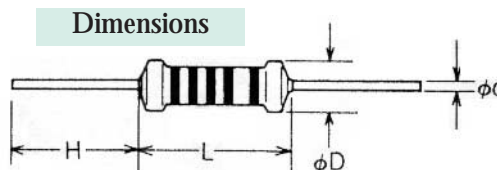
FR

Flame-proof Type

LEAD FREE

INTRODUCTION

MEGASTAR-OHM FR Series is a low cost type resistor that provides circuit protection from overload or component failure. The resistor will be opened quickly under continuous load and protects circuit board from damage and fire hazard. Uniform in fusing time. Noncombustible insulating coat, solvent proof and excellent application in high temperature.



General Specifications

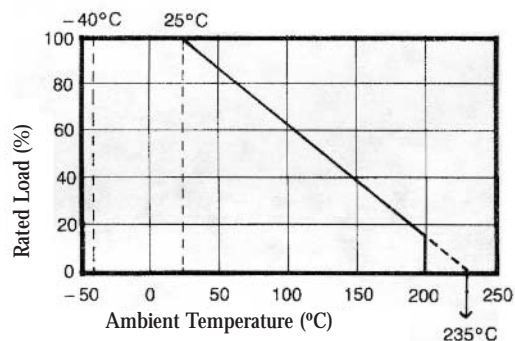
Type	Power Rating	L	D	d	H(MIN)	Resistance Range	Max Working Voltage	Dielectric Withstanding Voltage
FR	1/4W	6.5±0.5	2.3±0.2	.56±.02	27	0.10 -100K	250V	300V
	1/2W	6.5±0.5	2.3±0.2	.56±.02	27	0.22 -100K	250V	300V
	3/4W	9±0.5	3.0±0.2	.65±.02	27	0.27 -100K	300V	350V
	1W	9±0.5	4.0±0.2	.65±.02	25	0.39 -100K	300V	500V
	2W	11±0.5	4.5±0.2	.78±.02	27	0.47 -100K	350V	500V
	3W	15±0.5	5.5±0.2	.78±.02	27	0.47 -100K	500V	500V

NOTE: 1. Max overload voltage is twice the Max working voltage
2. Tolerance will be ±10% for values lower than 0.5 Ohm

Characteristics	Condition	Spec.
Operating Temperature	-40°C ~ 240°C	
Resistance Temp. coefficient	-30°C ~ 150°C	±200 ppm/°C
Short-time Overload	4 times the rated wattage for 5 seconds	±2%
Insulation Resistance	500V megger	1,000 M
Temp. cycle	-30°C ~ 85°C for 5 cycles	±1%
Load Life	25°C on-off cycle 1,000 hrs.	±5%
Moisture-proof Load Life	40°C 95% RH on-off cycle 1,000 hrs.	±5%
Solder Pot	270°C for 3 seconds	±1%
Incombustibility	16 times of rated wattage for 5 min.	not flamed

* Total resistance change: (°R%+0.05)

DERATING CURVE



FUSING CHARACTERISTICS

POWER	FUSING TIME	
	MAX	
16 x Wattage	1 Min.	
20	40 Sec.	
24	30 Sec.	
28	20 Sec.	
32	15 Sec.	

Part Numbering system

FR

1/4

5%

2K2

TR

Type
FR

Rated Power
1/4W ↓ 3W

Resistance tolerance
±5%
±2%

Nominal Resistance		
Code	Description	
0R24	.24	OHMs
22R	22	OHMs
2K2	2.2X10 ³	OHMs
22K	22X10 ³	OHMs
100K	100X10 ³	OHMs

Packaging	
Code	Description
B	Bulk
TR	Tape & Reel
PATR	Avisert T/R
PNTR	Panasert T/R