

FUSIBLE METAL FILM RESISTORS

FLAME-PROOF TYPE

FR SERIES



INTRODUCTION

These Fusible Resistors contain both functions as being resistor in normal condition and turned into fuse while abnormal current comes in. The FR series Fusible Metal Film Resistors are manufactured by high vacuum sputtering deposit metal film on high thermal conductivity and specific gravity ceramic rods, and are coated with multilayers of green color flameproof lacquer.

GENERAL SPECIFICATIONS:

STYLE	DIMENSION (mm)				POWER RATING	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE	
	L	øD	H	ød				±2% (G)	±5% (J)
FR-25	6.0±0.2	2.3±0.3	28±2	0.5±0.05	1/4W	250	300	4.7Ω~1K	2.2Ω~1K
FR-50	9.0±0.5	3.2±0.3	26±2	0.6±0.05	1/2W	250	400	4.7Ω~1K	2.2Ω~1K
FR-100	11.0±0.5	4.5±0.5	35±2	0.8±0.05	1W	300	500	4.7Ω~1K	0.27Ω~1K
FR-200	15.0±0.5	5.0±0.5	32±2	0.8±0.05	2W	350	500	4.7Ω~1K	0.33Ω~1K
FR-300S	15.0±0.5	5.0±0.5	32±2	0.8±0.05	3WS	350	500	4.7Ω~1K	0.33Ω~1K
FR-300	17.0±0.5	6.0±0.5	32±2	0.8±0.05	3W	350	500	4.7Ω~1K	0.33Ω~1K

Other resistance value on request

CHARACTERISTICS:

Temperature Coefficient	±100 PPM Type 350 Max
Insulation Resistance	10,000 MΩ Min
Load Life (1,000 hours)	±5% + 0.05Ω Max
Short-time Overload	±2% + 0.05Ω Max
Temperature Cycling	±1% + 0.05Ω Max
Moisture Resistance	±5% + 0.05Ω Max
Shock and Vibration	±1% + 0.05Ω Max
Effect of Soldering	±1% + 0.05Ω Max

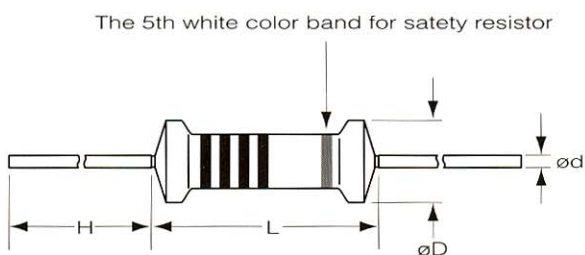
POWER:

POWER	Fusing Time Maximum
16 x Wattage	1 Min.
20	40 Sec.
24	30 Sec.
28	20 Sec.
32	15 Sec.

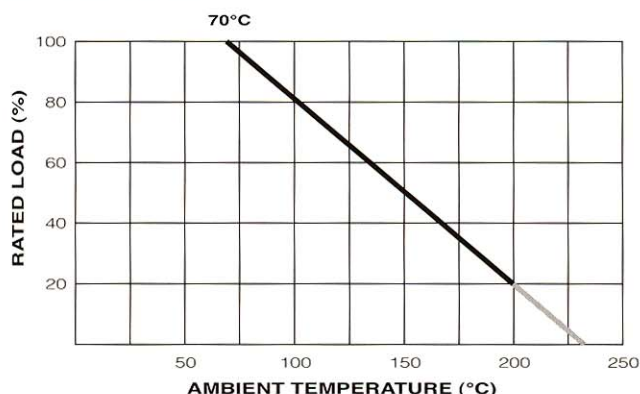
NOTE :

1. After voltaged the variable rate of resistance in excess (over) 100 times is open.
2. Operating Temper Range - 30°C~155°C

DIMENSIONS:



DERATING CURVE



FUSING CHARACTERISTICS:

