

Flame-Proof Fusible Resistors



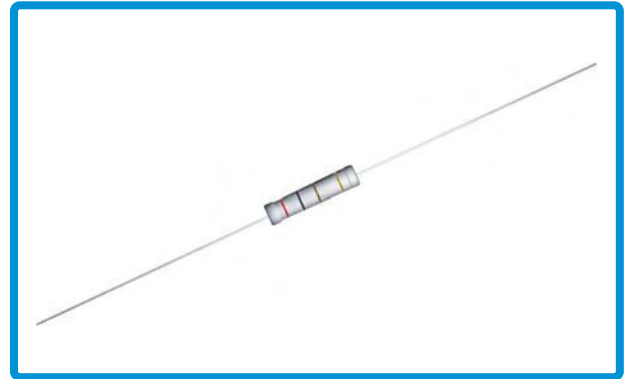
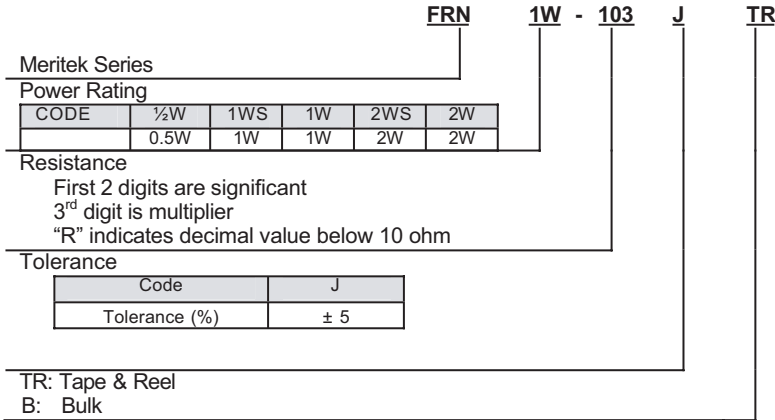
FRN Series

MERITEK

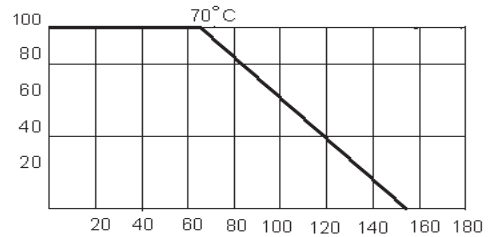
Superior quality fusible resistors, which are flameproof during operation

These resistors fuse in less than 30 seconds at 16 times rated power

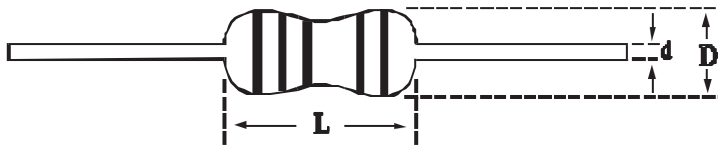
PART NUMBERING SYSTEMS



DERATING CURVE



DIMENSIONS

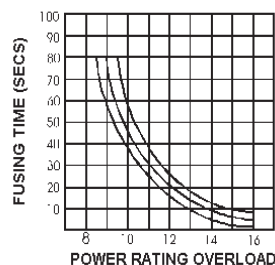


STYLE		DIMENSIONS (mm)			LIMITING ELEMENT VOLTAGE		RESISTANCE RANGE
Normal	Miniature	L	D	d	Normal	Miniature	
FRN1/4W	FRN1/2WS	6.3±0.5	2.3±0.3	0.55±0.03	200V	250V	4R7Ω ~1KΩ
FRN1/2W	FRN1WS	9.0±0.5	3.2±0.5	0.65±0.03	250V	300V	1Ω ~1KΩ
FRN1W	FRN2WS	11.5±1.0	4.5±0.5	0.78±0.03	300V	350V	1Ω ~1KΩ
FRN2W	FRN3WS	15.5±1.0	5.0±0.5	0.78±0.03	350V	400V	1Ω ~1KΩ

ELECTRICAL CHARACTERISTICS

Temperature Coefficient	±350ppm
Short time overload	±(2%+0.05Ω)
Insulation resistance	1000MΩ
Load life	±(5%+0.05Ω)
Terminal Strength	Tensile: ≥ 2.5kg
Solder ability	95% min average
Dielectric withstanding voltage	≥ 500V
Operating temperature range	-40°C to +155°C
Tolerance	±5%
Selection series	E-24
Working voltage	$\sqrt{P * R}$ at 70°C

FUSING CHARACTERISTICS



TYPE	MAGNIFICATION OF POWER RATING				FUSING TIME
	× 30	× 25	× 16	× 12	
25 50S	≤ OE47 OE47	OE91 OE91	1E1 1K		60SEC MAX
50 1WS	≤ OE33 OE33	1E2 1E2	1K 1K		
100 2WS	≤ OE33 OE33	1E2 1E2	1K 1K		
200 3WS	≤ OE33 OE33	1E2 1E2	1K 1K		

The above power rating and fusing time for standard fusible resistors, other specification request.