

Flame-Proof Fusible Resistors



FRN Series

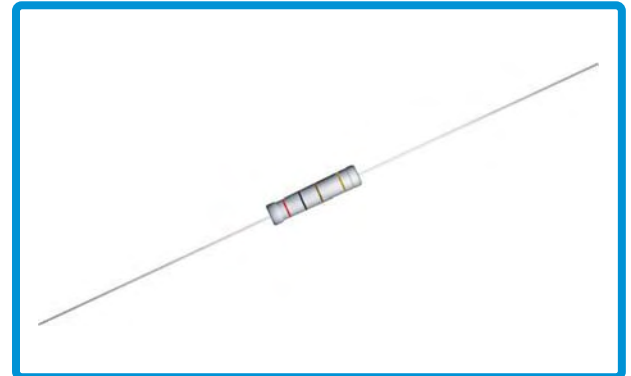
MERITEK

Superior quality fusible resistors, which are flameproof during operation

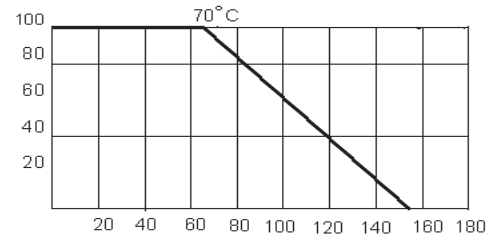
These resistors fuse in less than 30 seconds at 16 times rated power

PART NUMBERING SYSTEMS

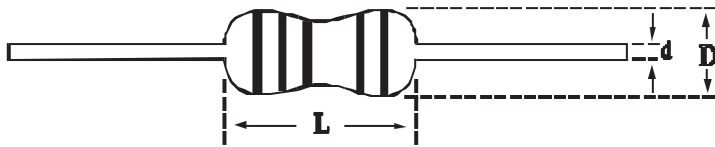
Meritek Series	FRN	1W	-	103	J	TR
Power Rating						
CODE	1/2W	1WS	1W	2WS	2W	
	0.5W	1W	1W	2W	2W	
Resistance						
First 2 digits are significant						
3 rd digit is multiplier						
"R" indicates decimal value below 10 ohm						
Tolerance						
Code	J					
Tolerance (%)	± 5					
TR: Tape & Reel						
B: Bulk						



DERATING CURVE



DIMENSIONS

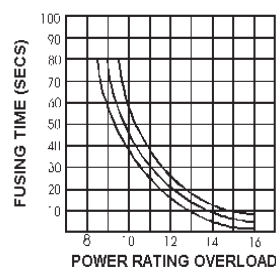


STYLE		DIMENSIONS (mm)			LIMITING ELEMENT VOLTAGE		RESISTANCE RANGE
Normal	Miniature	L	D	d	Normal	Miniature	
FRN1/4W	FRN1/2WS	6.3±0.5	2.3±0.3	0.55±0.03	200V	250V	4R7Ω~1KΩ
FRN1/2W	FRN1WS	9.0±0.5	3.2±0.5	0.65±0.03	250V	300V	1Ω~1KΩ
FRN1W	FRN2WS	11.5±1.0	4.5±0.5	0.78±0.03	300V	350V	1Ω~1KΩ
FRN2W	FRN3WS	15.5±1.0	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 overage
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	1E1		60SEC MAX
	OE47	OE91	1K		
50 1WS	≤ OE33	OE33	1E2		
	OE33	1E2	1K		
100 2WS	≤ OE33	OE33	1E2		
	OE33	1E2	1K		
200 3WS	≤ OE33	OE33	1E2		
	OE33	1E2	1K		

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