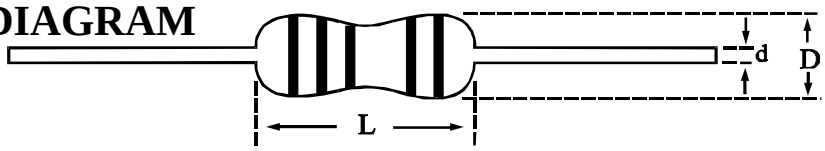
Fusibel Resistors

Superior quality fusible resistors which are flameproof during operation
These resistors fuse in less than 30seconds at 16 times rated power

OUTLNE DIAGRAM



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	4Ω7~1KΩ
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

Value Range for standard resistance，below or over this resistance on request.

RATINGS AND CHARACTERISTICS

ITEMS	SPECIFICATION LIMTS
TEMPERATURE COEFFICIENT	±350ppm
SHORT TIME OVERLOAD	±(2%+0.05Ω)
INSULATION RESISTANCE MIN DRY	1000MΩ
LOAD LIFE	±(5%+0.05Ω)
TERMINAL STRENGTH	Tensile:≧2.5kg
SOLDERABILITY	95% min overage
DIELECTRIC WITHSTANDING VOLTAGE	≧500V
OPERETING TEMPERATURE RANGE	－40℃ TO ＋155℃
TOLARANCE	±5%
SELECTION SERIES	E-24
WORKIKNG VOLTAGE	$\sqrt{P*R}$ at 70℃

MOUNTING

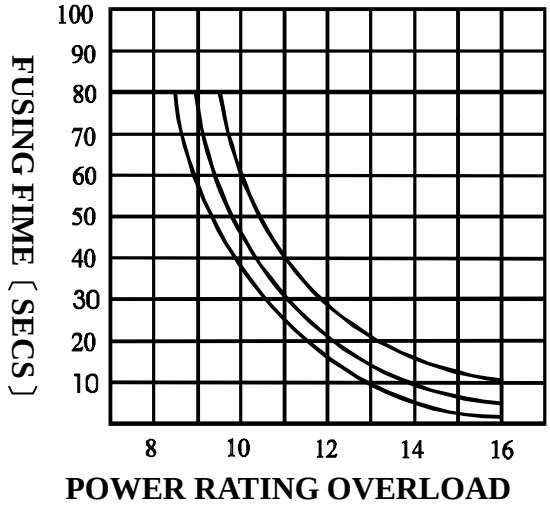
The resistors are suitable for processing on automatic insertion equipment and cutting and bending machines

MARKING

The resistors are marked with a 4 colors band code indicating the value and a fifth BLACK band denoting a fusible RESISTORS.

The reduced size use gold color band instead of the fifth BLACK band.

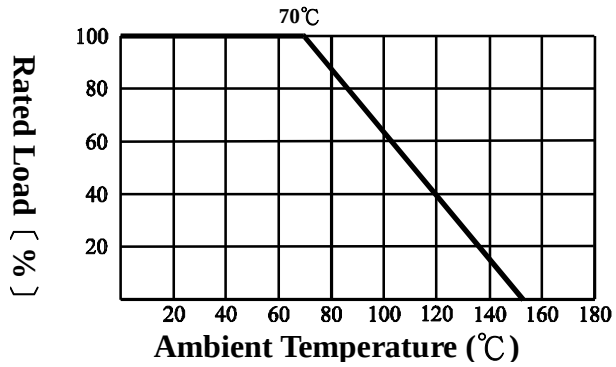
FUSING CHARACTERISTICS



TYPE		MAGNIFICATION OF ROWER RATING			FUSING TIME
		X 30	X 25	X 16	
1/4W	1/2WS	≦0E47	0E47～0E91	1E～1K	60SEC MAX
1/2W	1WS	≦0E33	0E33～1E2	1E2～1K	
1W	2WS	≦0E33	0E33～1E2	1E2～1K	
2W	3WS	≦0E33	0E33～1E2	1E2～1K	

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

Power derating curve



Technology and suggested application

The resistive element comprises a resistive film sputtered onto a ceramic element.

Metal end caps are force fitted to the element prior to spiralling.

Tinned copper lead wires are welded to the end caps and the components are than coated with four layers of a flameproof cement.

All resistors are tested for value and tolerance.

Resistor body color

1. Normal size------ Grey
2. Small size--------Pink

PART NUMBER:

