Fusible Fixed Resistors

Performance Specification

Temperature Coefficient	±350PPM/°C
Short Time Overload	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Terminal Strength	No evidence of mechanical damage.
Resistance to Soldering Heat	±(1.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Resistance to Solvent	No deterioration of protective coating and markings.
Temperature Cycling	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Humidity (Steady state)	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life in Humidity	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Non-Flame	Do not have any specimens which burn with flaming combustion after each application.

Ordering Procedure: Ex.: FRN 1W, +/-5%, 10Ω, T/B-1000

F	R	N	0	1	W	J	0	1	0	0	A	1	0

Type:
FRN = Fusible Film

Feature:
0= Standard

Wattage:
W4 = 1/4W
W2 = 1/2W
1W = 1W
2W = 2W
3W = 3W
S2 = 1/2W-S
N4 = 0.4W
75 = 3/4W
15 = 1.5W

Tolerance:
G = ±2%
J = ±5%
K = ±10%

Resistance Value:
- E-24 series:
  1st digit is "0"
  2nd & 3rd digits are the significant figures of the resistance
  4th indicates the number of zeros:
  "J" ~ 0.1, "K" ~ 0.01
  Ex.: 4.7Ω ~ 47J, 4.7KΩ~ 472

Packing Type:
A = Tape/Box
T = Tape/Reel
B = Bulk/Box
P = Tape/Box of PT-26mm

Packing Qty:
1 = 1,000 pcs.
A = 500 pcs.
0 = Bulk/Box
5 = 5,000 pcs.
B = 2,500 pcs.

Additional Information:
0 = PT-52mm, PT-26mm, Standard lead wire for Bulk/Box
8 = PT-58mm
9 = PT-64mm

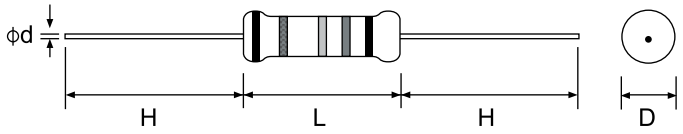
RoHS Compliant

Fusible Fixed Resistors

Features

- Nickle or Metal film deposits in cylinder ceramic rods
- Non-flame coating
- Ideal circuit opening controller, disconnecting units from overload rating specified
- Too low or too high ohmic value can be supplied on a case to case basis
- Spacial UL approved items available (UL 1412)

Standard : 2% ,5% ,10% -- E - 24 series

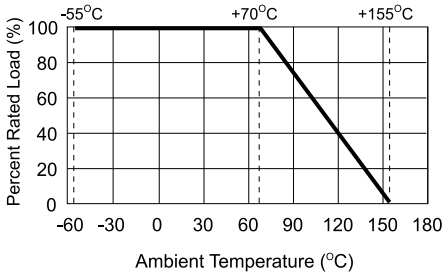


Part No.	Style	Power Rating at 70°C	Dimension (mm)					Resistance Range	Dielectric Withstanding Voltage	Std Packing Qty
			D Max	L Max	H±3	d±0.05	PT			
FRN0W4	FRN 25	1/4W(0.25W)	2.5	6.8	28	0.54	52	0.22Ω ~10KΩ	300V	5,000
FRN0S2	FRN 50-S	1/2W (0.50W)	2.5	6.8	28	0.54	52	0.22Ω ~10KΩ	300V	5,000
FRN0N4	FRN 40	0.40W	2.5	6.8	28	0.54	52	0.22Ω ~10KΩ	300V	5,000
FRN0W2	FRN 50	1/2W (0.50W)	3.0	9.0	28	0.54	52	0.22Ω ~10KΩ	350V	1,000
FRN075	FRN 75	3/4W (0.75W)	3.5	10.0	28	0.54	52	0.22Ω ~10KΩ	350V	1,000
FRN01W	FRN 100	1W	3.5	10.0	28	0.54	52	0.22Ω ~10KΩ	350V	1,000
FRN015	FRN 150	1.5W	5.0	12.0	25	0.70	52	0.22Ω ~10KΩ	600V	1,000
FRN02W	FRN 200	2W	5.0	12.0	25	0.70	52	0.22Ω ~10KΩ	600V	1,000
FRN03W	FRN 300	3W	5.5	16.0	28	0.70	64	0.22Ω ~10KΩ	600V	1,000

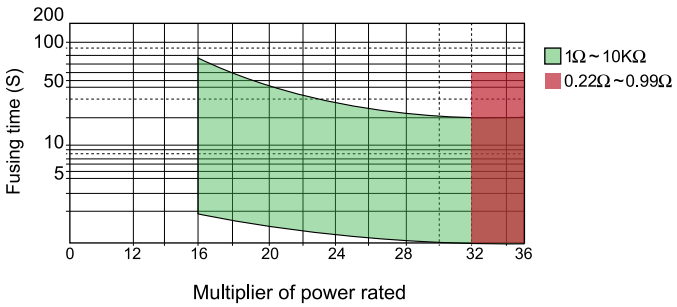
Fusing Characteristics

Resistance Range	Magnification of Power Rating	Fusing Time (Maximum time)
0.22Ω~0.99Ω	32 (Test by current)	60 sec
1Ω~10KΩ	16 (1R~ 3R Test by current)	60 sec
	20	40 sec
	24	30 sec
	28	20 sec
	32	15 sec

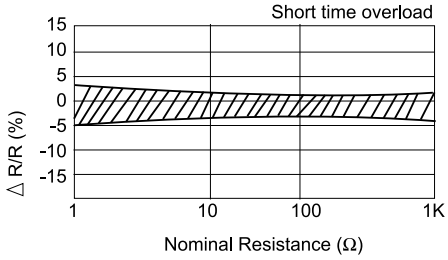
Derating Curve



Fusing Characteristics Chart



Overload Curve



RoHS Compliant