

- Features:**
- Coating meets UL 94V-0
 - Flameproof – meets overload test of UL #1412
 - Designed for constant current to provide overload protection
 - Consistent performance and reliability
 - Cut and formed product is available on select sizes, contact factory for details
 - RoHS compliant / lead-free



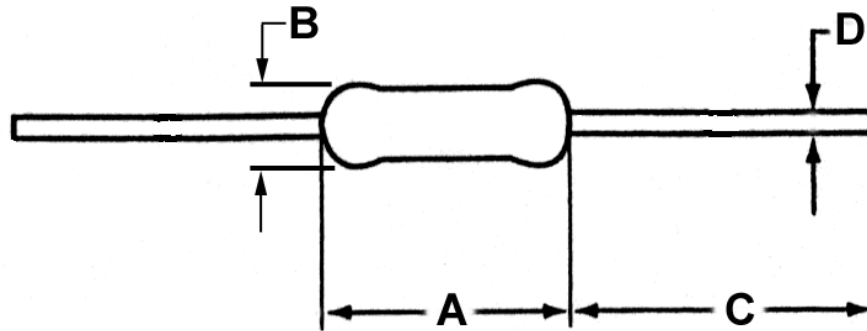
Electrical Specifications					
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage ^①	Maximum Working Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance
					5%
FRN 1/4	0.25W	200V	300V	±350 ppm/°C	0.22Ω - 10KΩ
FRN 1/2	0.5W	250V	400V	±350 ppm/°C	0.47Ω - 10KΩ
FRN 1	1W	300V	600V	±350 ppm/°C	0.47Ω - 10KΩ
FRN 2	2W	300V	600V	±350 ppm/°C	1Ω - 3KΩ

① Lesser of $\sqrt{\text{PR}}$ or maximum working voltage

Fusing Characteristics - Magnification of Power Rating				
Type / Code	X25	X15	X12	Fusing Time
FRN 1/4	0.22Ω - 0.91Ω	1Ω - 4.7KΩ 2.4KΩ - 10KΩ	5.1Ω - 2.2KΩ	30 Sec. Maximum
FRN 1/2	-	0.47Ω - 2Ω 1.1KΩ - 10KΩ	2.2Ω - 1KΩ	
FRN 1	-	0.47Ω - 2Ω 1.1KΩ - 10KΩ	2.2Ω - 1KΩ	
FRN 2	-	1Ω - 3.6Ω 1.1KΩ - 3KΩ	3.9Ω - 1KΩ	

How to Order

SEI Type		Code		Nominal Resistance	Tolerance		Packaging			
FRN		1/2		4.7	5%		R			
Type	Description	Code	Wattage		Tolerance	Values	SEI Types	Pkg Qty	Description	Code
FRN	Fusing Metal Film	1/4	0.25W		5%	E24	FRN 1/4	5,000	Tape	R
		1/2	0.5W				FRN 1/2, 1	2,500		
		1	1W				FRN 2	1,000		
		2	2W				ALL	1,000	Ammo	T
							ALL	1000	Bulk	A



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
FRN 1/4	0.024 ± 0.01	0.09 ± 0.01	1.1 ± 0.08	0.022 ± 0.002	inches
	6 ± 0.2	2.3 ± 0.2	28 ± 2	0.55 ± 0.05	mm
FRN 1/2	0.35 ± 0.02	0.11 ± 0.02	1.1 ± 0.08	0.028 ± 0.002	inches
	9 ± 0.5	2.8 ± 0.5	28 ± 2	0.7 ± 0.05	mm
FRN 1	0.43 ± 0.02	0.16 ± 0.02	1.1 ± 0.08	0.028 ± 0.002	inches
	11 ± 0.5	4 ± 0.5	28 ± 2	0.7 ± 0.05	mm
FRN 2	0.59 ± 0.04	0.22 ± 0.02	1.38 ± 0.12	0.031 ± 0.002	inches
	15 ± 1	5.5 ± 0.5	35 ± 3	0.8 ± 0.05	mm

Performance Characteristics	
Test	Test Results
Moisture Resistance	±5%
Thermal Shock	±1%
Load Life @ 70°C - 1,000hrs	±5%
Resistance to Soldering Heat	±1%
Short Time Overload	±2%

Operating Temperature Range: -40°C to +155°C