UniOhm

Fusible Resistors

φd

Н



Н

Feature

- Raw materials used for fusible resistors are that of Metal Film Resistors
- 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

Fusing Characteristics

Test Power	Fusing Time
16×Power Rating \cdots \leq	60 seconds
20×Power Rating \cdots	40 seconds
24×Power Rating \cdots \leq	30 seconds
$28 \times Power Rating \cdots \leq$	20 seconds
$32 \times Power Rating \cdots \leq$	15 seconds
$32 \times Power Rating \cdots \leq 60$ seconds (0.220	Ω - 0.99Ω)

The fusing test current or voltage should be stable, change within 5%.

Spo

Part No.		Power	Dimension (mm)				Dielectric	Resistance
	Part No.	Туре	Rating At 70°C	D Max.	L Max.	d +0.02 -0.05	H±3	Withstanding Voltage
FRNOW4	FRN-25	1/4W	3	6.8	0.6	28	300V	0.22Ω ~ 10ΚΩ
FRN0W2	FRN-50	1/2W	3	9	0.6	28	350V	0.22Ω ~ 10ΚΩ
FRN01W	FRN-100	1W	4.5	10	0.7	28	350V	0.22Ω ~ 10ΚΩ
FRN02W	FRN-200	2W	5	12	0.7	28	600V	0.22Ω ~ 10ΚΩ
FRN03W	FRN-300	3W	5.5	16	0.8	28	600V	0.22Ω ~ 10ΚΩ

FRNOW4



FRNOW₂



FRN01W



FRN02W & FRN03W



Derating Curve



Overload Curve



Fusible Resistors



Performance Specifications

Temperature coefficient	± 350PPM / °C
Short-time overload	$\Delta R/R \leq \pm (2\% + 0.05 \Omega),$ 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	$\Delta R/R \leq \pm (1\% + 0.05 \Omega),$ with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Temperature cycling	$\Delta R/R \leq \pm (2\% + 0.05 \Omega),$ with no evidence of mechanical damage.
Load life in humidity	$\Delta R/R \leq \pm (5\% + 0.05 \Omega),$ with no evidence of mechanical damage.
Load life	$\Delta R/R \leq \pm (5\% + 0.05 \Omega),$ with no evidence of mechanical damage.
Flame retardant	Not have any specimens which burn with flaming combustion after each application of the test flame

Ordering Procedure (Example: FRN 1W 5% 1Ω T/B-1000)



UniOhm

Standard Color Code System

Four Band Color Code (Available for CFR, MOR, KNP & 2% or 5% of MFR Products)



Five Band Color Code (Available for MFR 1% & FRN Products)

