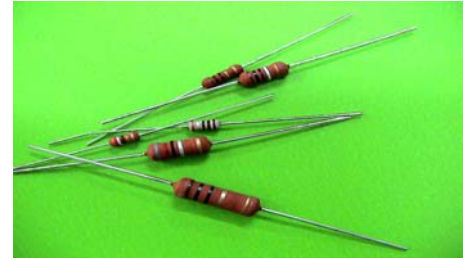


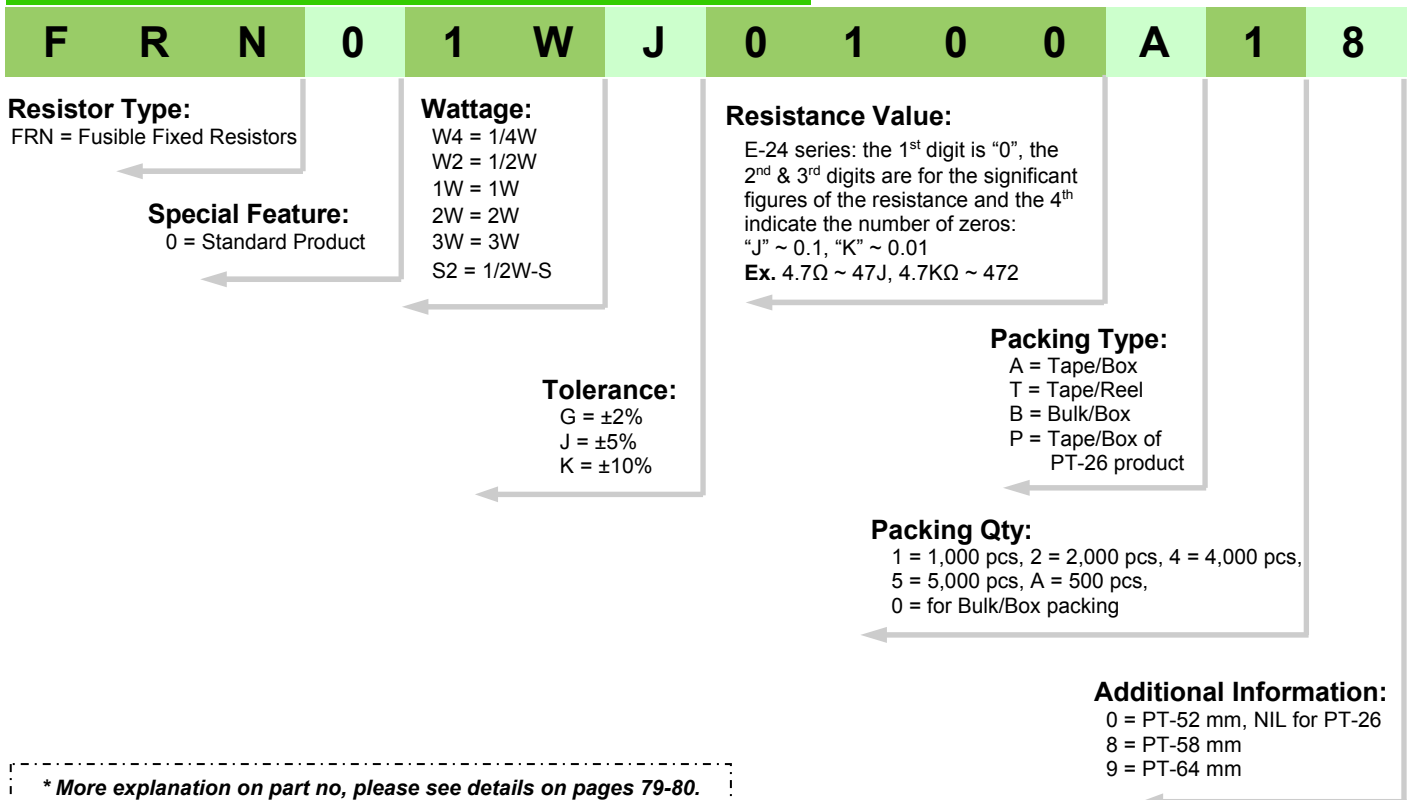
FUSIBLE FIXED RESISTORS

Features

- Non-flame coating, 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



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



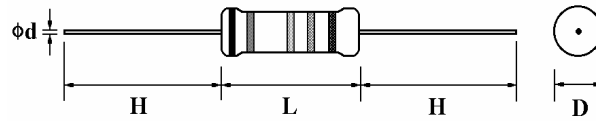
Performance Specifications

Temperature coefficient	±350PPM/°C
Short-time overload	$\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$, 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	$\Delta R/R \leq \pm(1.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Solderability	Min. 95% coverage
Temperature cycling	$\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Load life in humidity	$\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Load life	$\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$, with no evidence of mechanical damage.
Non-Flame	Not have any specimens which burn with flaming combustion after each application

**More details, please see pages 77-78.*

FUSIBLE FIXED RESISTORS

Dimension (mm)



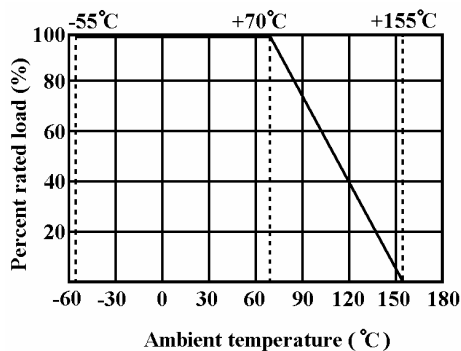
Color code is the same as 1% 5 color band.

Part No.	Style	Power Rating at 70°C	D Max.	L Max.	H ± 3	d±0.05	Resistance Range	Dielectric Withstanding Voltage
FRN0W4	FRN-25	1/4W (0.25W)	2.5	6.8	28	0.54	0.22Ω ~ 10KΩ	300V
FRN0S2	FRN-50-S	1/2W (0.5W)	2.5	6.8	28	0.54	0.22Ω ~ 10KΩ	300V
FRN0W2	FRN-50	1/2W (0.5W)	3.0	9.0	28	0.54	0.22Ω ~ 10KΩ	350V
FRN01W	FRN-100	1W	3.5	10.0	28	0.54	0.3Ω ~ 10KΩ	350V
FRN02W	FRN-200	2W	5.0	12.0	28	0.70	0.3Ω ~ 10KΩ	600V
FRN03W	FRN-300	3W	5.5	16.0	28	0.70	0.3Ω ~ 10KΩ	600V

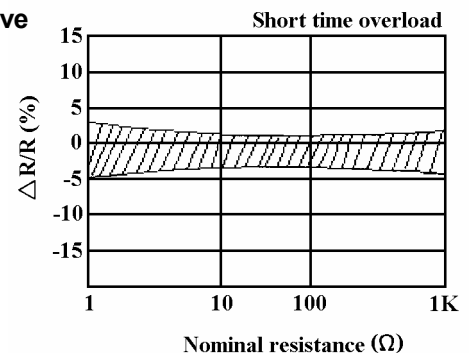
Fusing Characteristics

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

Derating Curve



Overload Curve



Fusing Characteristics Chart

