



**EN:** This Datasheet/Document is presented by the manufacturer.

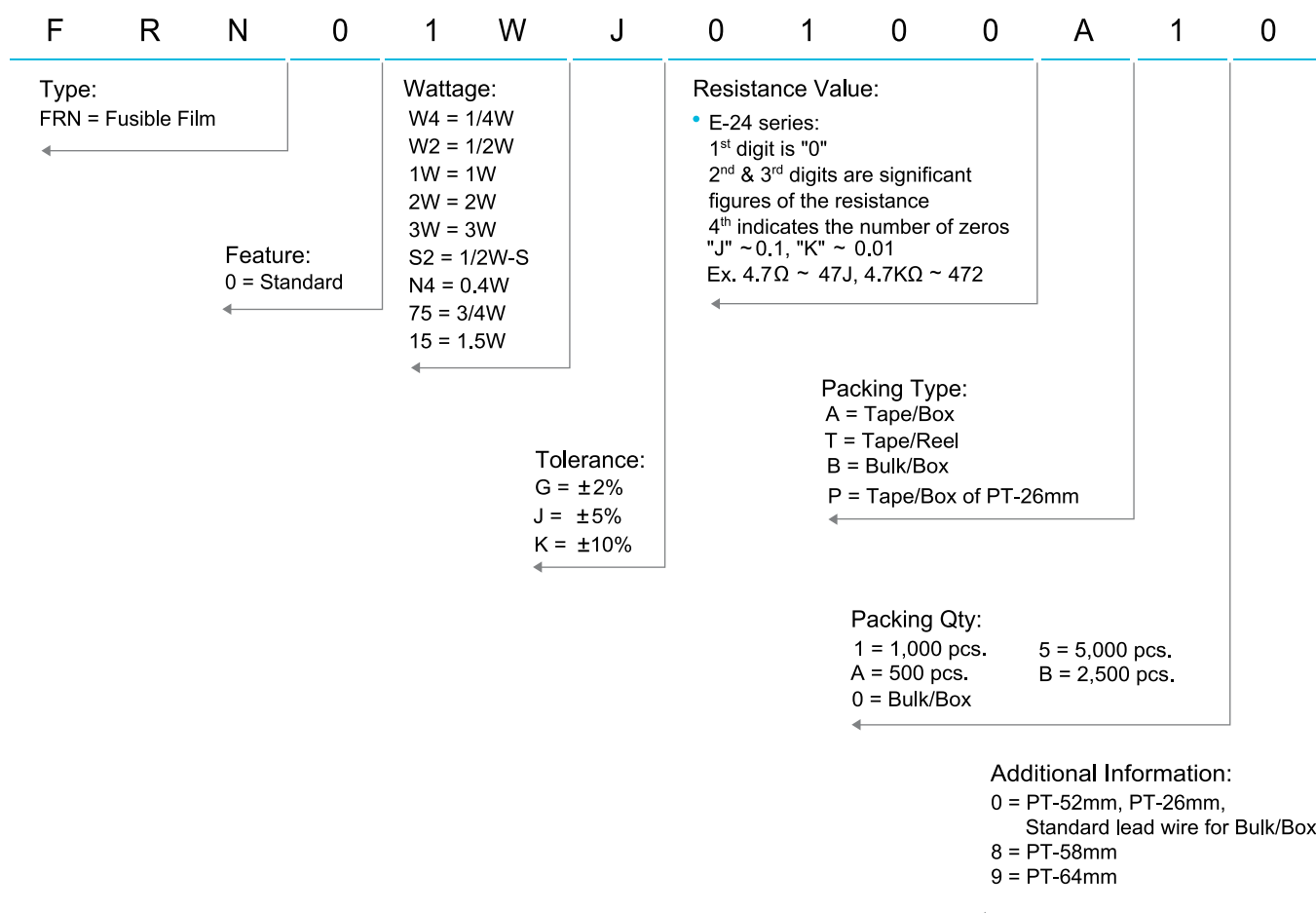
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# Fusible Fixed Resistors

## 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

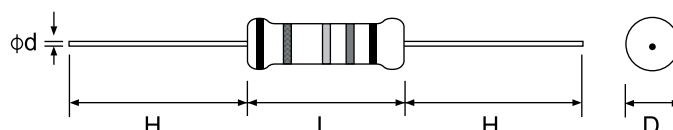


# Fusible Fixed Resistors

## Features

- Nickel 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
- Special UL approved items available (UL 1412) 

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

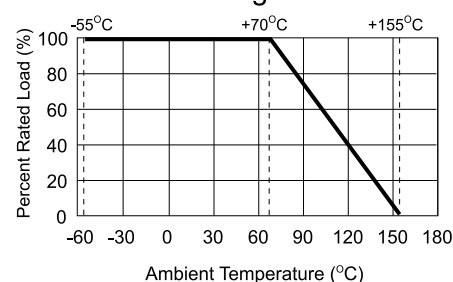


| Part No. | Style    | Power Rating at 70°C | Dimension (mm) |       |     |        |    | Resistance Range | Dielectric Withstanding Voltage | Std Packing Qty |
|----------|----------|----------------------|----------------|-------|-----|--------|----|------------------|---------------------------------|-----------------|
|          |          |                      | 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           |

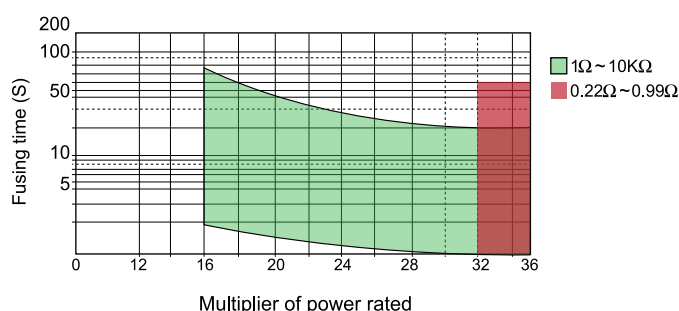
## Fusing Characteristics

| 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

