

## Features

- Small size and lightweight with size range per int'l standard.
- Highly stable in auto-placement surface mounting application.
- Suitable for withstanding circuit for surge voltage.
- RoHS compliant & Halogen Free.

## Applications

- CD-ROM.
- Power supply.
- Automotive industry.
- Measurement instrument.
- Medical equipment.
- Electronic watch and camera.

## Part Number

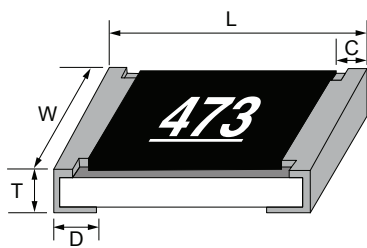
| Type       | Size  | Tolerance   | Packing  | - | GM         |
|------------|---|---|--|---|------------|
| <b>FNF</b> | <b>03:</b> 0603<br><b>05:</b> 0805<br><b>06:</b> 1206<br><b>20:</b> 2010<br><b>25:</b> 2512 | <b>J:</b> ±5%<br><b>K:</b> ±10%<br><b>L:</b> ±15%<br><b>M:</b> ±20% | <b>T:</b> Paper tape – 5 Kpcs<br><b>V:</b> Paper tape – 10 Kpcs<br><b>W:</b> Paper tape – 20 Kpcs<br><b>P:</b> Plastic tape – 4 Kpcs<br><b>X:</b> Plastic tape – 8 Kpcs<br><b>Y:</b> Plastic tape – 16Kpcs |   | <b>473</b> |

## Rating

| Type  | Size | Power Rating at 70°C | Max. RCWW | Max. Overload Voltage | Resistance Tolerance (%)                | Temperature Coefficient (TCR; ppm/°C) | Resistance Range |      | Standard Resistance Values |
|-------|------|----------------------|-----------|-----------------------|---|---------------------------------------|------------------|------|----------------------------|
|       |      |                      |           |                       |   |                                       | Min.             | Max. |                            |
| FNF03 | 0603 | 1/10W                | 50V       | 100V                  | ±5%(J)<br>±10%(K)<br>±15%(L)<br>±20%(M) | ±100                                  | 1Ω               | 1MΩ  | E-24                       |
| FNF05 | 0805 | 1/8W                 | 150V      | 300V                  |   |                                       |                  |      |                            |
| FNF06 | 1206 | 1/4W                 | 200V      | 400V                  |   |                                       |                  |      |                            |
| FNF20 | 2010 | 3/4W                 | 200V      | 400V                  |   |                                       |                  |      |                            |
| FNF25 | 2512 | 1W                   | 200V      | 400V                  |   |                                       |                  |      |                            |

•  $E = (P \times R) / 2$  E: Working Voltage(V) P: Rated Power (W) R: Resistance Value(Ω)

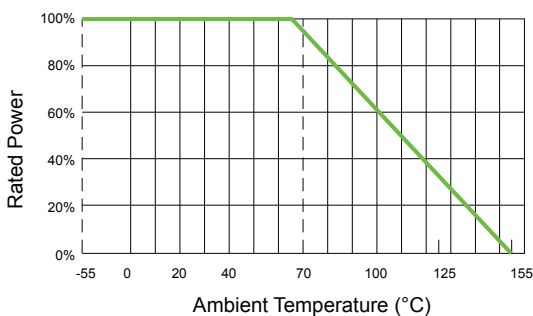
## Dimension and Construction



unit: mm

| Type  | L         | W         | C         | D         | T         |
|-------|-----------|-----------|-----------|-----------|-----------|
| FNF03 | 1.60±0.10 | 0.80±0.10 | 0.30±0.20 | 0.30±0.20 | 0.45±0.10 |
| FNF05 | 2.00±0.10 | 1.25±0.10 | 0.40±0.20 | 0.40±0.20 | 0.50±0.10 |
| FNF06 | 3.10±0.10 | 1.60±0.10 | 0.50±0.20 | 0.50±0.20 | 0.55±0.10 |
| FNF20 | 5.00±0.20 | 2.50±0.20 | 0.60±0.25 | 0.60±0.25 | 0.60±0.10 |
| FNF25 | 6.40±0.20 | 3.20±0.20 | 0.60±0.25 | 0.90±0.25 | 0.60±0.15 |

## Power Derating Curve



## Surge Performance

