

#### Features

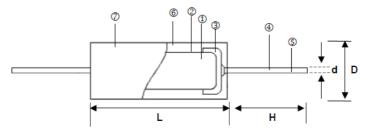
- Very tight tolerance down to  $\pm 0.02\%$
- $-\,\text{Extremely}$  low TCR down to  $\pm \text{5PPM/}^\circ\text{C}$
- -High precision
- -Excellent stability

## Applications

- -Precision Equipment
- -Measurement Equipment







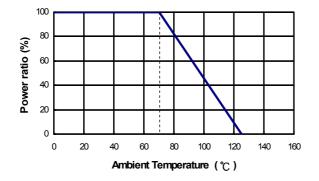
1	Ceramic Core (Alumina ceramic)	5	Lead Wire (Tinned annealed copper wire)
0	Resistor Element (Nickel alloy)	6	Molding (Expose)
3	Terminal (Tinned iron cap)	Ø	Marking (Expose based ink)
4	Connection		

## Dimensions

Unit : mm

Туре	L	D	н	d	Weight (g) (1000pcs)
UPF25	7.0±0.3	2.7±0.4	26±3	0.6±0.05	230
UPF50	10.2±0.3	4.0±0.4	25±3	0.6±0.05	430

## Derating Curve





## Part Numbering

UPF	50	В	B 1K0	
Product Type	Power Rating	Tolerance	Resistance	TCR
UPF	25 · 1/ W		1R0 : 1Ω 100R : 100Ω 1K0 : 1,000Ω 100K : 100,000Ω	V : ±5PPM

#### Standard Electrical Specifications

ltem	Power Rating	Operating Temp.	Max. Operating	Max. Overload	Resistance Range	TCR (PPM/°C)
Туре	70°C	Range	Voltage	Voltage	±0.02% ±0.05% ±0.1%	
25	1/4W		250V	500V	<b>10Ω -500Κ</b> Ω	±5
50	1/2W	-55 ~ +125°C	300V	600V	<b>10Ω -500Κ</b> Ω	±5

■ Operating Voltage V=√(P\*R)

## Environmental Characteristics

Item	Requirement	Test Method		
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	Resistance value at room temperature and room temperature+60°C		
Short Time Overload	±(0.05%+0.05Ω)	JIS-C-5201-1 5.5 RCWV*2.5 or Max. overload voltage for 5 seconds		
Insulation Resistance > 1,000MΩ		MIL-STD-202F Method 302 Apply 500V <sub>DC</sub> for 1 minute		
Endurance	±(0.2%+0.05Ω)	MIL-STD-202F Method 108A $70\pm^2$ C, Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"		
Damp Heat with Load	±(0.2%+0.05Ω)	<b>MIL-STD-202F Method 103B</b> 40±2°C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"		
Solderability	95% min. Coverage	MIL-STD-202F Method 208H 245±5℃ for 5 seconds		
Resistance to Soldering Heat	±(0.05%+0.01Ω)	350±10°C for 3 seconds or 260±5°C for 10 seconds		
Terminal Strength	Tensile: ≧2.5kg	Tensile strength: for 10 sec. Torsional strength: Rotated through 360°,5 rotations.		
Pulse Overload	±(0.1%+0.01Ω)	JIS-C-5201-1 5.8 4 times RCWV for 10000 cycles with 1second "ON" and 25 seconds "OFF"		
Temperature Cycle	±(0.05%+0.05Ω)	-25℃ (30min)/+85℃ (30min), 5 cycles		
Resistance to Solvent No deterioration of coatings and markings		JIS-C-5201-1 6.9 Trichroethane for 3 min. with ultrasonic		

#### ■ Storage Temperature: 25±3°C; Humidity < 80%RH

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Metal Film Resistors - Through Hole category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below :

FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA H87K5DYA RLR05C6201GS HR01623J HR01682J 270-1.69M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F910R ERX-2SZJR20E SQMR5390RJ SQMR74K7J SQPR533KJ FMF-25FTF52-100K FRN50J100RS FRN50J470RS H4100RBZA H414R3BZA H415KBYA H4174KBZA H4174RBDA H41K21BYA