Carbon Film Fixed Resistor

Axial Leaded



Features

- · Automatically insertable
- · High quality performance
- · Non-Flame type available
- · Cost effective and commonly used
- Too low or too high values can be supplied on case to case basis

Performance Specification

Temperature Coefficient : $\leq 10\Omega$: ± 350 PPM/°C

11Ω to 99kΩ : 0 to -450PPM/°C 100kΩ to 1MΩ : 0 to -700PPM/°C 1.1MΩ to 10MΩ : 0 to -1500PPM/°C

Short Time Overload : $\pm (1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage

Insulation Resistance : Min. 1,000 $M\Omega$

Dielectric Withstanding Voltage : No evidence of flashover, mechanical damage,

arcing or insulation breakdown.

Terminal Strength : No evidence of mechanical damage.

Resistance to Soldering Heat $\pm (1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.

Solderability : Min. 95% coverage

Resistance to Solvent : No deterioration of protective coating and markings

Temperature Cycling : $\pm (1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage

Load Life in Humidity : Normal Type : $<100k\Omega$: $\pm(3\% +0.05\Omega)$ Max.

≥100kΩ : ±(5% +0.05Ω)Max.

Non-Flame Type $: <100k\Omega : \pm (5\% +0.05\Omega)Max.$

≥100k Ω : ±(10% +0.05 Ω)Max.

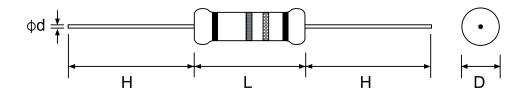
Load Life : Normal Type : $<56k\Omega$: $\pm(2\% +0.05\Omega)$ Max.

≥56k Ω : ±(3% +0.05 Ω)Max.

Non-Flame Type : $<100k\Omega$: $\pm(5\% +0.05\Omega)$ Max.

≥ $100k\Omega$: ± $(10\% +0.05\Omega)$ Max.

Dimension



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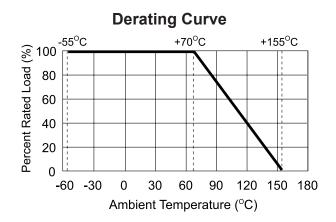
Power Rating at 70°C	Dimension (mm)					Resistance	Max.	Max.	Dielectric
	D Max.	L Max.	H±3	d ±0.05	PT	Range	Working Voltage	Overload Voltage	Withstanding Voltage
1/8W (0.125W)	1.85	3.5	28	0.45	52	1Ω to 1MΩ	200	400	400
1/4W (0.25W)	2.5	6.8		0.54	52	1Ω to 10MΩ	250	500	500
1/2W (0.5W)	3.5	10		0.54	52		350	700	700
1W	5.5	16		0.7	64		500	1,000	1,000
2W	6.5	17.5		0.75	64		500	1,000	1,000

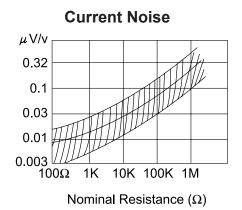
Note:

Standard beige base colour

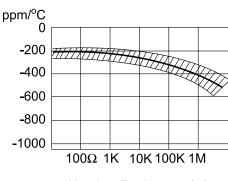
Standard grayish-green colour (Non-flammable coating) for CFRFU2 (CFR-50-SS) and CFRF1U (CFR-100-SS)

Ohmic values outside the standard range available on a case to sase basis





Temp. Coefficient



Nominal Resistance (Ω)