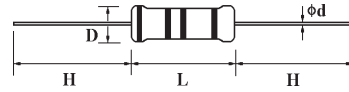


# Carbon Film Fixed Resistors:

## Feature

- High quality performance
- Great economy
- Flame retardant type available
- Automatically insertable

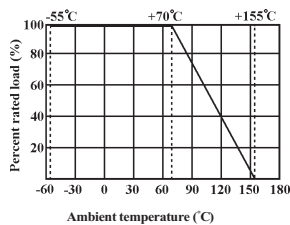


## Specifications

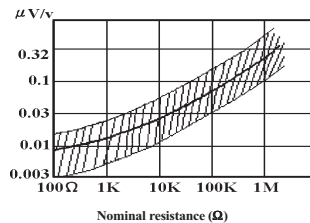
Part No.	Type	Power Rating At 70°C	Dimension (mm)				Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range
			D Max.	L Max.	d +0.02 -0.05	H ± 3				
<b>Normal Size</b>										
CFR0W8	CFR-12	1/8W	1.85	3.5	0.5	28	200V	400V	400V	1Ω ~ 1MΩ
CFR0W4	CFR-25	1/4W	2.5	6.8	0.6	28	250V	500V	500V	1Ω ~ 10MΩ
CFR0W2	CFR-50	1/2W	3.5	10	0.6	28	350V	700V	700V	1Ω ~ 10MΩ
CFR01W	CFR-100	1W	5.5	16	0.8	28	500V	1000V	1000V	1Ω ~ 10MΩ
CFR02W	CFR-200	2W	6.5	17.5	0.8	28	500V	1000V	1000V	1Ω ~ 10MΩ
<b>Small Size &amp; Extra Small Size</b>										
CFR0S4	CFR-25-S	1/4W	1.85	3.5	0.5	28	200V	400V	400V	1Ω ~ 1MΩ
CFR0U2	CFR-50-SS	1/2W	2.5	6.8	0.6	28	250V	500V	250V	1Ω ~ 10MΩ
CFR0S2	CFR-50-S	1/2W	3	9	0.6	28	350V	700V	700V	1Ω ~ 10MΩ
CFR01S	CFR-100-S	1W	5	12	0.7	28	500V	1000V	1000V	1Ω ~ 10MΩ
CFR02S	CFR-200-S	2W	5.5	16	0.8	28	500V	1000V	1000V	1Ω ~ 10MΩ
CFR03S	CFR-300-S	3W	6.5	17.5	0.8	28	500V	1000V	1000V	1Ω ~ 10MΩ

- Standard E-24 series values in ± 5% tolerance
- Standard Beige base color; Special Lavender base color for CFR01S, CFR02S & CFR03S
- Standard Grayish-green base color (Non-Flammable coating) for CFR0U2 (CFR-50-SS)
- For any special inquiry which including too low or high ohmic values is available on a case to case basis

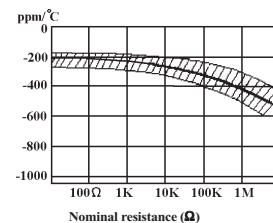
## Derating Curve



## Current Noise Level



## Temperature Coefficient



# Carbon Film Fixed Resistors:

## Performance Specifications

<b>Temperature coefficient</b>	±300PPM/°C for ≤10Ω; ±450PPM/°C for 11Ω ~ 99KΩ; 0 ~ -700PPM/°C for 100KΩ ~ 1MΩ; 0 ~ -1500PPM/°C for 1.1MΩ ~ 10MΩ.
<b>Short-time overload</b>	ΔR/R ≤ ±(1%+0.05Ω), with no evidence of mechanical damage.
<b>Insulation resistance</b>	Min. 10,000Mega Ohm.
<b>Dielectric withstanding voltage</b>	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
<b>Terminal strength</b>	No evidence of mechanical damage.
<b>Resistance to Soldering heat</b>	ΔR/R ≤ ±(1%+0.05Ω), with no evidence of mechanical damage.
<b>Solderability</b>	Min. 95% coverage.
<b>Resistance to solvent</b>	No deterioration of protective coating and markings.
<b>Temperature cycling</b>	ΔR/R ≤ ±(1%+0.05Ω), with no evidence of mechanical damage.
<b>Load life in humidity</b>	Normal type: ΔR/R ± 3% for <100KΩ, ±5% for ≥100KΩ; Flame retardant type: ΔR/R ± 5% for <100KΩ, ±10% for ≥100KΩ
<b>Load life</b>	Normal type: ΔR/R ±2% for <56KΩ, ±3% for ≥56KΩ; Flame retardant type: ΔR/R ±5% for <100KΩ, ±10% for ≥100KΩ

## Ordering Procedure (Example: CFR 1/4W Small Size Non – Flame 5% 10KΩ T/B-5000)

