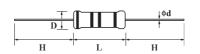


Feature

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

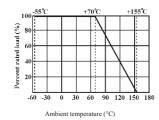




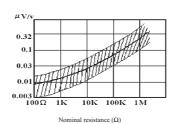
Part No.	Туре	Power Rating At 70°C	Dimension (mm)				Max.	Max	Dielectric	Davistance
			D Max.	L Max.	d ^{+0.02} - 0.05	H ± 3	Working Voltage	Overload Voltage	Withstanding Voltage	Resistance Range
Normal Size										
CFRoW8	CFR-12	1/8W	1.85	3.5	0.5	28	200V	400V	400V	$1\Omega\sim 1M\Omega$
CFRoW4	CFR-25	1/4W	2.5	6.8	0.6	28	250V	500V	500V	$1\Omega\sim 10M\Omega$
CFR0W2	CFR-50	1/2W	3.5	10	0.6	28	350V	700V	700V	$1\Omega\sim 10M\Omega$
CFR01W	CFR-100	1W	5.5	16	0.8	28	500V	1000V	1000V	$1\Omega\sim 10M\Omega$
CFR02W	CFR-200	2W	6.5	17.5	0.8	28	500V	1000V	1000V	$1\Omega\sim 10M\Omega$
Small Size & Ext	ra Small Size									
CFR0S4	CFR-25-S	1/4W	1.85	3.5	0.5	28	200V	400V	400V	$1\Omega\sim 1M\Omega$
CFR0U2	CFR-50-SS	1/2W	3	6.8	0.6	28	250V	500V	500V	$1\Omega\sim 10M\Omega$
CFR0S2	CFR-50-S	1/2W	3	9	0.6	28	350V	700V	700V	$1\Omega\sim 10M\Omega$
CFR01S	CFR-100-S	1W	5	12	0.7	28	500V	1000V	1000V	$1\Omega\sim 10M\Omega$
CFR02S	CFR-200-S	2W	5.5	16	0.8	28	500V	1000V	1000V	$1\Omega\sim 10M\Omega$
CFR03S	CFR-300-S	3W	6.5	17.5	0.8	28	500V	1000V	1000V	$1\Omega\sim 10M\Omega$

- Standard E-24 series values in \pm 5% tolerance
- Standard Beige base color; Light Brown base color for CFR01S, CFR02S & CFR03S
- Standard Grayish-green base color (Non-Flammable coating) for CFROU2 (CFR-50-SS)
- For any special inquiry which including too low or high ohmic values is available on a case to case basis

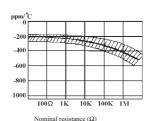
Derating Curve



Current Noise Level



Temperature Coefficient



Performance Specifications

 $\begin{tabular}{ll} \textbf{Temperature coefficient} & \pm 300PPM/^{\circ}C \ for \le 10\Omega_{\it i} \end{tabular}$

 ± 450 PPM $^{\circ}$ C for $11\Omega \sim 99$ K Ω_i 0 \sim -700PPM $^{\circ}$ C for 100K $\Omega \sim 1$ M Ω_i 0 \sim -1500PPM $^{\circ}$ C for 1.1M $\Omega \sim 10$ M Ω

Short-time overload $\Delta R/R \leq \pm (1\% + 0.05\Omega)$, with no evidence of mechanical damage.

Insulation resistance Min. 10,000Mega Ohm.

Dielectric withstanding voltage No evidence of flashover, mechanical damage, arcing or insulation breakdown.

Terminal strength No evidence of mechanical damage.

Resistance to Soldering heat $\Delta R/R \leq \pm (1\% + 0.05\Omega)$, with no evidence of mechanical damage.

Solderability Min. 95% coverage.

 $\textbf{Resistance to solvent} \qquad \text{No deterioration of protective coating and markings}.$

Temperature cycling $\Delta R/R \leq \pm (1\% + 0.05\Omega)$, with no evidence of mechanical damage.

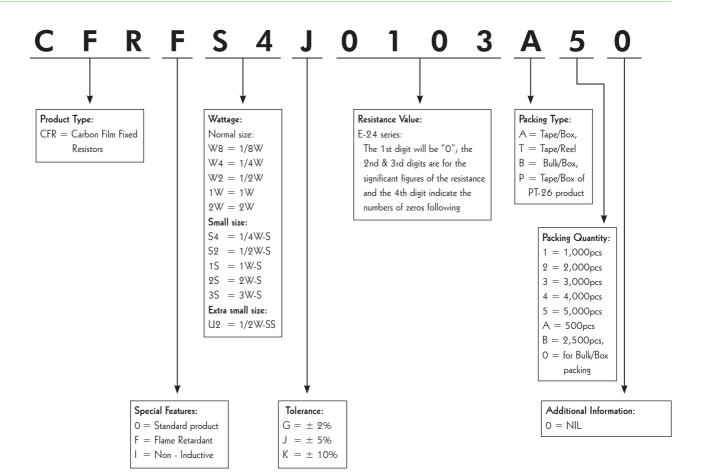
Load life in humidity Normal type: $\Delta R/R \pm 3\%$ for $<100K\Omega$, $\pm 5\%$ for $\ge 100K\Omega$;

Flame retardant type: $\Delta R/R~\pm~5\%$ for $<\!100K\Omega,~\pm10\%$ for $\geq\!100K\Omega$

Load life Normal type: $\Delta R/R \pm 2\%$ for $<56K\Omega$, $\pm3\%$ for $\ge56K\Omega_i$

Flame retardant type: $\Delta R/R \pm 5\%$ for $< 100 K\Omega$, $\pm 10\%$ for $\ge 100 K\Omega$

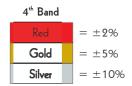
Ordering Procedure (Example: CFR 1/4W Small Size Non – Flame 5% 10KΩ T/B-5000)



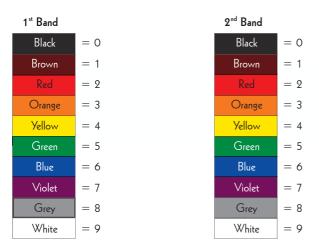


Four Band Color Code (Available for CFR, MOR, KNP & 2% or 5% of MFR Products)





1234





Five Band Color Code (Available for MFR 1% & FRN Products)



12345

