

CF Series — Carbon Film Resistors

Features

- General purpose resistor ideal for commercial/industrial applications
- Flame retardant coatings standard, flameproof optional (contact factory)
- Pana-Sert available on selected sizes (contact factory)
- Auto sequencing/insertion compatible
- CFM (mini) an ideal choice when size constraints apply
- Cut and formed product is available on select sizes, contact factory for details
- RoHS compliant/ lead-free

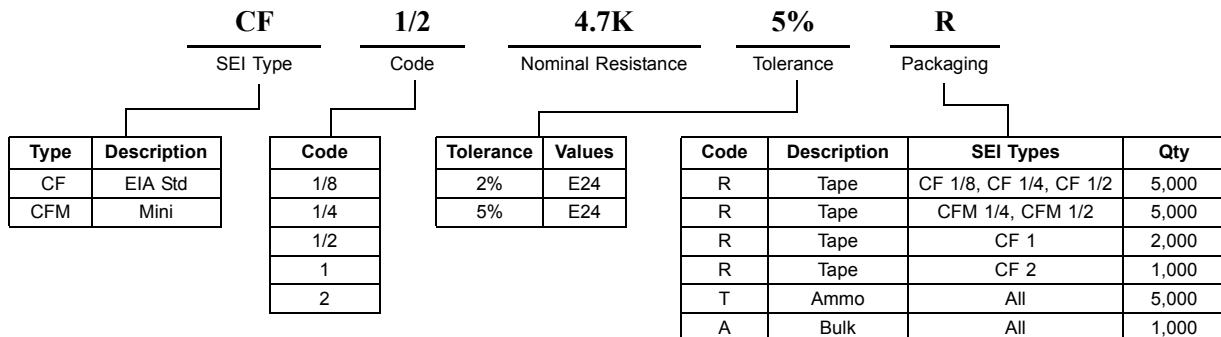


Electrical Specifications

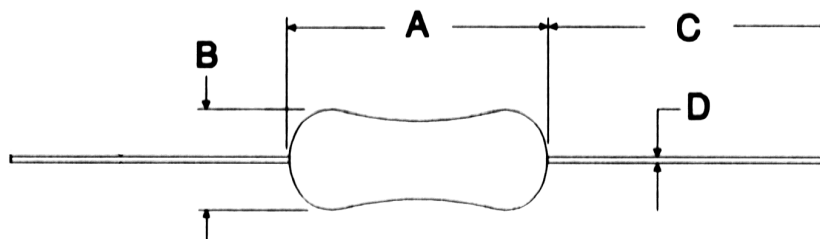
Type	Power Rating (Watts) @ 70°C	Maximum Working Voltage*	Maximum Pulse Voltage	Dielectric Withstanding Voltage	Ohmic Range and Tolerance	
					2%	5%
CF 1/8	0.125W	250	500	300	10Ω – 4.7M	1Ω – 22M
CF 1/4	0.25W	350	600	500	1Ω – 4.7M	1Ω – 22M
CF 1/2	0.5W	350	700	700	10Ω – 4.7M	1Ω – 22M
CF 1	1W	500	1,000	1,000	1Ω – 10M	1Ω – 22M
CF 2	2W	500	1,000	1,000	10Ω – 1M	1Ω – 22M
CFM 1/4	0.25W	250	500	500	10Ω – 1M	1Ω – 22M
CFM 1/2	0.5W	250	500	500	10Ω – 4.7M	1Ω – 22M

* Lesser of \sqrt{PR} or maximum working voltage.

How to Order



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Mechanical Specifications

Type	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
CF 1/8	0.13 + 0.01/-0 3.2 + 0.2/-0	0.07 ± 0.01 1.8 ± 0.2	1.10 ± 0.12 28.0 ± 3.0	0.018 ± 0.002 0.45 ± 0.05	inches mm
CF 1/4	0.26 ± 0.02 6.5 ± 0.5	0.09 ± 0.01 2.3 ± 0.2	1.10 ± 0.12 28.0 ± 3.0	0.022 ± 0.002 0.56 ± 0.05	inches mm
CF 1/2	0.33 ± 0.02 8.5 ± 0.50	0.11 ± 0.02 2.7 ± 0.5	1.10 ± 0.12 28.0 ± 3.0	0.024 ± 0.002 0.60 ± 0.05	inches mm
CF 1	0.43 ± 0.04 11.0 ± 1.0	0.18 ± 0.02 4.5 ± 0.5	1.18 ± 0.12 30.0 ± 3.0	0.031 ± 0.004 0.80 ± 0.1	inches mm
CF 2	0.59 ± 0.04 15.0 ± 1.0	0.20 ± 0.02 5.0 ± 0.5	1.18 ± 0.12 30.0 ± 3.0	0.031 ± 0.004 0.80 ± 0.1	inches mm
CFM 1/4	0.13 + 0.01/-0 3.2 + 0.2/-0	0.07 ± 0.01 1.8 ± 0.2	1.10 ± 0.12 28.0 ± 3.0	0.018 ± 0.002 0.45 ± 0.05	inches mm
CFM 1/2	0.26 ± 0.02 6.5 ± 0.5	0.09 ± 0.01 2.3 ± 0.2	1.10 ± 0.12 28.0 ± 3.0	0.022 ± 0.002 0.56 ± 0.05	inches mm

Performance Characteristics

Test	Standard / Method	Requirement
Short Time Overload	EIA-RS-172-B 3.2.6	± 0.5%
Resistance to Solder Heat	MIL-STD 202, Method 210	± 0.5%
Dielectric Withstanding Voltage	JIS C 5202 5.6	± 0.5%
Load Life	MIL-STD 202, Method 108	± 1.0%
Terminal Strength	MIL-STD 202, Method 211	± 0.2%
Moisture Resistance	MIL-STD 202, Method 106	± 0.5%