

- Features:
- General purpose resistor ideal for commercial/industrial applications
  - Flame retardant coatings standard
  - Flameproof version available as CFF
  - Panasert available on selected sizes; contact factory
  - Auto sequencing/insertion compatible
  - CFM (mini) ideal choice when size constraints apply
  - Cut and formed product is available on select sizes; contact factory
  - Standard lead wire for CF/CFM is copper plated steel, with 100% tin over plate
  - 100% tin plate on copper wire is available as type CFQ/CFQM
  - RoHS compliant / lead-free



Electrical Specifications						
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Dielectric Withstanding Voltage	Ohmic Range (Ω) and Tolerance	
					2%	5%
CF 1/8	0.125W	250V	500V	350V	10 - 1M	1 - 22M
CF 1/4	0.25W	350V	600V	350V	1 - 1M	1 - 22M
CF 1/2	0.5W	350V	700V	600V	10 - 1M	1 - 10M
CF 1	1W	500V	1,000V	600V	1 - 1M	1 - 10M
CF 2	2W	500V	1,000V	600V	10 - 1M	1 - 10M
CFM 1/4	0.25W	250V	500V	350V	10 - 1M	1 - 10M
CFM 1/2	0.5W	350V	600V	350V	10 - 1M	1 - 10M
CFM 1	1W	600V	1,000V	600V	10 - 1M	1 - 10M

(1) Lesser of √PR or maximum working voltage.



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length(Bulk)	D Lead Diameter	Units
CF 1/8	0.13 ± 0.01	0.07 ± 0.01	1.10 ± 0.12	0.018 ± 0.003	inches
	3.3 ± 0.3	1.7 ± 0.3	28.0 ± 3.0	0.45 ± 0.08	mm
CF 1/4	0.26 ± 0.02	0.09 ± 0.01	1.10 ± 0.12	0.022 ± 0.003	inches
	6.5 ± 0.05	2.3 ± 0.3	28.0 ± 3.0	0.55 ± 0.08	mm
CF 1/2	0.33 ± 0.04	0.11 ± 0.02	1.18 ± 0.12	0.022 ± 0.002	inches
	8.5 ± 1.0	2.7 ± 0.5	30.0 ± 3.0	0.56 ± 0.05	mm
CF 1	0.43 ± 0.04	0.18 ± 0.02	1.18 ± 0.12	0.028 ± 0.004	inches
	11.0 ± 1.0	4.5 ± 0.5	30.0 ± 3.0	0.70 ± 0.1	mm
CF 2	0.59 ± 0.04	0.20 ± 0.02	1.18 ± 0.12	0.031 ± 0.004	inches
	15.0 ± 1.0	5.0 ± 0.5	30.0 ± 3.0	0.8 ± 0.1	mm
CFM 1/4	0.13 ± 0.01	0.07 ± 0.01	1.10 ± 0.12	0.018 ± 0.003	inches
	3.3 ± 0.3	1.7 ± 0.3	28.0 ± 3.0	0.45 ± 0.08	mm
CFM 1/2	0.26 ± 0.04	0.09 ± 0.01	1.10 ± 0.12	0.022 ± 0.003	inches
	6.5 ± 1.0	2.3 ± 0.3	28.0 ± 3.0	0.55 ± 0.08	mm
CFM 1	0.35 ± 0.02	0.14 ± 0.02	1.10 ± 0.12	0.024 ± 0.002	inches
	9.0 ± 0.5	3.5 ± 0.5	28.0 ± 3.0	0.6 ± 0.05	mm

Performance Characteristics		
Test	Standard / Method	Test Results
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%
Terminal Strength	MIL-STD 202 Method 211	± 0.2%
Moisture Resistance	MIL-STD 202 Method 106	± 0.5%

Operating Temperature Range: -55°C to +155°C

### How to Order

SEI Type		Code		Nominal Resistance	Tolerance	Packaging			
CF		1/2		100K	5%	R			
Code	Description	Code	Wattage		Tolerance	Code →	A	R	T
CF	Standard	1/8	0.125W		2%	SEI Types	Bulk	Tape & Reel	Tape & Box (Ammo Box)
CFM	Mini	1/2	0.5W		5%				
CFQ	Tin plating on copper wire	1	1W						
CFQM	Tin plating (mini)	2	2W						
CF	Standard					CF 1/8	1,000	5,000	5,000
CFM	Mini					CFM 1/4			
CFQ	Tin plating on copper wire					CF 1/4			
CFQM	Tin plating (mini)					CFM 1/2			
PCF	Panasert CF 1/4					CF 1/2	1,000	5,000	2,000
PCFM	Panasert CF 1/2					CFM 1	1,000	5,000	5,000
PCFQ	Tin plating on copper wire Panasert					CF 1	1,000	2,000	1,000
						CF 2	1,000	1,000	1,000
						PCF 1/4	N/A	5,000	2,000
						PCFM 1/2			

New part number format starting January 3<sup>rd</sup>, 2011:

### How to Order

1 2 3 4 5 6 7 8 9 10																			
C		F		1		2		J		T		1		0		0		K	
Product Series		Size	Power Rating	Tolerance		Code	Description	Size	Quantity	Resistance Value									
CF	Standard	18	0.125W	Code	Tol	B	bulk	CF18, CFM14, CF14, CFM12	1,000	Four characters with the multiplier used as the decimal holder. 10 ohm = 10R0 10.2 Kohm = 10K2 1 Mohm = 1M00									
CFM	Mini	12	0.5W	G	2%	T	tape and reel	CF12, CFM1, CF1, CF2	5,000										
CFQ	Tin plating on copper wire	1	1W	J	5%			CF18, CFM14, CF14, CFM12, CF12, CFM1, PCF14, PCFM12	2,000										
CFQM	Tin plating (mini)	2	2W					CF1	1,000										
PCF	Panasert CF14					A	ammo	CF18, CFM14, CF14, CFM12, CFM1	5,000										
PCFM	Panasert CF12							CF12, PCF14, PCFM12	2,000										
PCFQ	Tin plating on copper wire Panasert							CF1, CF2	1,000										