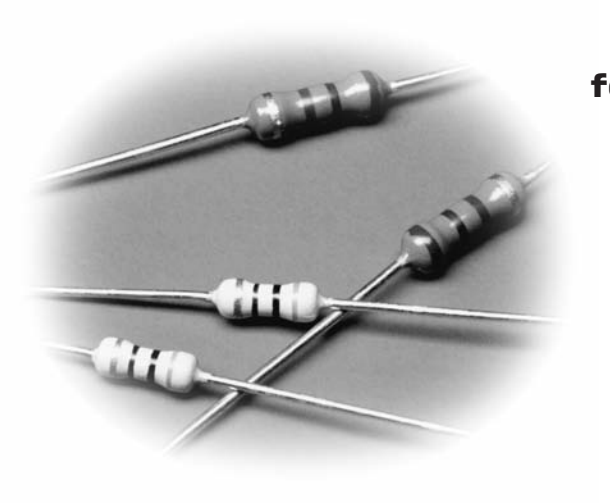
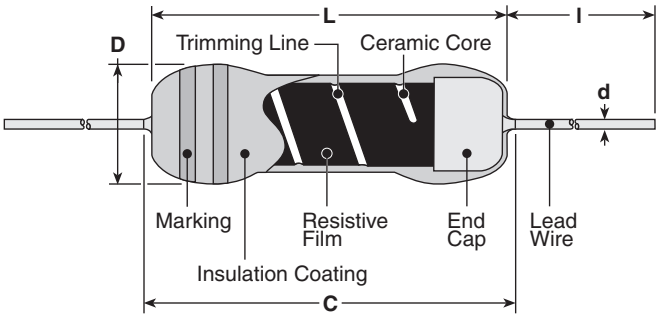


features

- Flameproof coating is available (specify “CFP”)
- Reduced body size (specify “CFS/CFPS”)
- Suitable for automatic machine insertion
- Marking: Beige body color with color-coded bands on CF
  Green body color with color-coded bands on CFP
  Ivory body color with color-coded bands on CFS1/4
- Products with lead-free terminations meet RoHS requirements

dimensions and construction



Type	Dimensions inches (mm) L	C (max.)	D	d (nom.)	l
CFS1/4 CFPS1/4	.126±.008 (3.2±0.2)	.134 (3.4)	.067±.008 (1.7±0.2)	.018 (0.45)	1.18±.12 (30.0±3.0)
CF1/4 CFP1/4	.240 (6.1)	.280 (7.1)	.092±.012 (2.3±0.3)	.024 (0.6)	
CF1/2 CFP1/2	.335 (8.5)	.365 (9.27)	.118±.02 (3.0±0.5)	.028 (0.7)	
CFS1/2 CFPS1/2	.248±.02 (6.3±0.5)	.280 (7.1)	.112±.012 (2.85±0.3)	.024 (0.6)	

ordering information

New Part #

CF	1/4	C	T52	R	103	J
Type	**Power Rating**	**Termination Material**	**Taping and Forming**	**Packaging**	**Nominal Resistance**	**Tolerance**
CF CFP	S1/4: 0.25W 1/4: 0.25W 1/2: 0.5W S1/2: 0.5W	C: SnCu (Other termination styles available, contact factory for options)	Axial: T26, T52 Radial: VT, MT, MHT, VTP, VTE U Forming: U, UCL, US M Forming: M5, M10, M12.5	A: Ammo R: Reel	2 significant figures + 1 multiplier “R” indicates decimal on value <10Ω	G: ±2% J: ±5%

For further information on packaging, please refer to Appendix C.

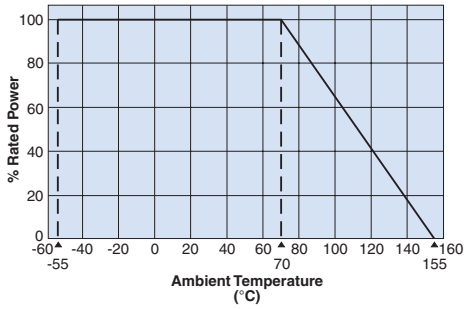
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use. 3/06/07

applications and ratings

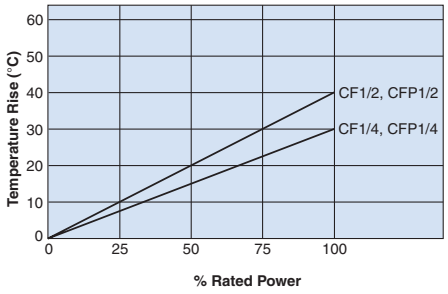
Part Designation	Power Rating @ 70°C	Minimum Dielectric Withstanding Voltage	T.C.R. (ppm/°C) +350 to -450	T.C.R. (ppm/°C) 0 to -700	T.C.R. (ppm/°C) 0 to -1000	T.C.R. (ppm/°C) 0 to -1300	Resistance Range E-24 (G±2%)	Resistance Range E-24 (J±5%)	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage
CFS1/4	0.25W	300V	2.2Ω - 47kΩ	51kΩ - 100kΩ	110kΩ - 330kΩ	360kΩ - 1MΩ	10Ω - 330kΩ	2.2Ω - 1MΩ	250V	500V
CFPS1/4							10Ω - 100kΩ	2.2Ω - 1MΩ		
CF1/4		500V	2.2Ω - 100kΩ	110kΩ - 330kΩ	360kΩ - 1MΩ	1.1MΩ - 5.1MΩ	10Ω - 1MΩ	2.2Ω - 5.1MΩ	300V	600V
CFP1/4						—		2.2Ω - 1MΩ		
CF1/2	0.50W	700V		110kΩ - 1MΩ	1.1MΩ - 2.2MΩ	2.4MΩ - 5.1MΩ		2.2Ω - 5.1MΩ	400V	800V
CFP1/2					—	—		2.2Ω - 1MΩ		
CFS1/2			2.2Ω - 91kΩ	100kΩ - 1MΩ	1.1MΩ - 2.2MΩ	2.4MΩ - 5.1MΩ		2.2Ω - 5.1MΩ	350V	700V
CFPS1/2					—	—		2.2Ω - 1MΩ		

environmental applications

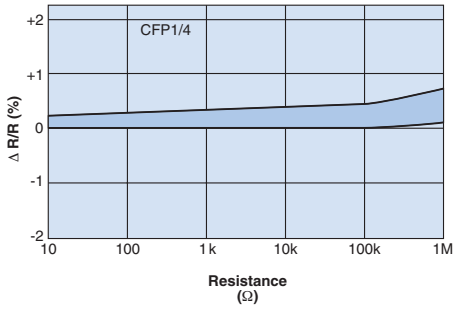
Derating Curve



Surface Temperature Rise



Load Life @ 70°C, 1000 Hr



Performance Characteristics

Parameter	Requirement CF1/4, CFP1/4	Requirement CF1/2, CFP1/2	Test Method
Short Time Overload	±1.0%		2.5 x RCWV* for 5 seconds
Resistance to Solder Heat			MIL-STD-202, Method 210
Moisture Resistance	±5.0%		MIL-STD-202, Method 106
Load Life	±3.0%		MIL-STD-202, Method 108, 70°C, 1000 hours
Temperature Cycling	±1.0%		-55°C, 25°C, 125°C, 25°C for 5 cycles
Vibration			MIL-STD-202, Method 214
Terminal Strength	5 # Minimum		MIL-STD-202, Method 211
Current Noise	0.02 - 0.6 µv/v	0.02 - 1.00 µv/v	MIL-STD-202, Method 308
Voltage Coefficient	<5 ppm/v		MIL-STD-202, Method 301

* RCWV = Rated Continuous Working Voltage

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KOA:

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