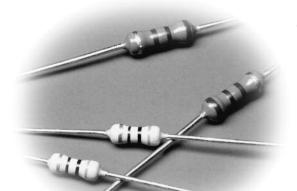




carbon film leaded resistors

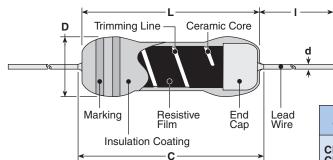




features

- Flameproof coating is available (specify "CFP")
- Reduced body size (specify "CFS/CFPS")
- Suitable for automatic machine insertion
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

dimensions and construction



	Dimensions inches (mm)							
Type	L C (max.)		D d (nom.)		Standard Long			
CFS1/4 CFPS1/4	.126±.008 (3.2±0.2)	.134 (3.4)	.067 ^{+.008} ₀₀₄ (1.7 ^{+0.2} _{-0.1})	.018 (0.45)		.787 Min.*** (20.0 Min.)		
CF1/4 CFP1/4	.240±0.2 (6.1±0.5)	.280 (7.1)	.092±.012 (2.3±0.3)	.024 (0.6)	(14.0 IVIIII.)	(20.0 Min.)		
CFS1/2 CFPS1/2	.248±.02 (6.3±0.5)	.280 (7.1)	.112±.012 (2.85±0.3)	.024 (0.6)	.787 Min.			
CFB1/2 CFPB1/2	.354±.039 (9.0±1.0)	.433 (11.0)	.138±.02 (3.5±0.5)	.028 (0.7)	(20.0 Min.)			

ordering information

CF
T
Туре
CF
CFP

1/4					
Power Rating					
S1/4: 0.25W					
1/4: 0.25W					
S1/2: 0.5W					
B1/2: 0.5W					

С					
Taumination					
Termination Material					
wateriai					
C: SnCu					

Taping and Forming
Axial: T26, T52, L52
Radial: VT, MT, MHT, VTP, VTE
U Forming: U, UCL
M Forming: M5, M10, M12.5
L Forming: L10, L12.5
S Forming: S

Packaging
A: Ammo
R: Reel

ı	.00					
Ì						
	Nominal Resistance					
	nesistance					
	2 significant					
	figures + 1					
	multiplier					
	"R" indicates					
	decimal on					
	value <10 Ω					
•						

	J
	l l
l	Tolerance
Ī	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.

^{*} Forming code S is applied for bulk type.
** Lead length changes depending on taping and forming type.

^{***} Long type is custom-made





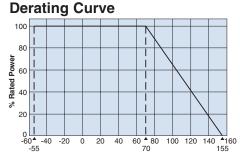
carbon film leaded resistors

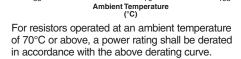
applications and ratings

Part Designation	Designation Rating Withstanding			T.C.R. (ppm/°C)				Resistance Range E-24	Absolute Maximum Working	Absolute Maximum Overload
Designation	@ 70°C	Voltage	+350 to -450	0 to -700	0 to -1000	0 to -1300	E-24 (G±2%)	(J±5%)	Voltage	Voltage
CFS1/4		300V	2.2Ω - 47kΩ	51kΩ - 100kΩ	110kΩ - 330kΩ	360kΩ - 1MΩ	10Ω - 330kΩ	2.2Ω - 1ΜΩ	250V	500V
CFPS1/4	0.25W	300 V					10Ω - 100kΩ	2.2Ω - 1ΜΩ	250 V	3007
CF1/4	0.25	500V	0.00 10010	110kΩ - 330kΩ	360kΩ - 1ΜΩ	1.1ΜΩ - 5.1ΜΩ		2.2Ω - 5.1ΜΩ	300V	600V
CFP1/4		5007	2.252 - 100K52			_		2.2Ω - 1ΜΩ		
CFS1/2	0.50\\\ 700\\	7001/	1.0Ω - 91kΩ	100kΩ - 1MΩ		2.4ΜΩ - 5.1ΜΩ	10Ω - 1ΜΩ	1.0Ω - $5.1ΜΩ$	350V	700V
CFPS1/2	0.50W	700V	2.2Ω - 91kΩ		_	_		2.2Ω - 1ΜΩ		
CFB1/2	0.50W	700V	2.2Ω - 100kΩ	110kΩ - 1MΩ	1.1ΜΩ - 2.2ΜΩ	2.4ΜΩ - 5.1ΜΩ		2.2Ω - 5.1ΜΩ	400V	800V

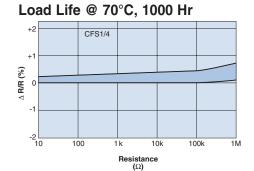
Operating temperature: -55°C ~ +155°C

environmental applications





Surface Temperature Rise (2) 50 50 CFS1/2 CFB1/2 CFPS1/4 CFS1/4 CFS1/4



Performance Characteristics

	Requirement Δ	R ±(% + 0.05Ω)					
Parameter	Limit	Typical	Test Method				
Resistance	Within specified tolerance	_	Measuring points are at 10mm ±1mm from the end cap.				
T.C.R.	Within specified T.C.R.	_	+25°C/+125°C				
Overload (Short time)	±1%	±0.5%	Rated voltage x 2.5 or max. overload voltage for 5 seconds, whichever is lower				
Resistance to Solder Heat	±1%	±0.5%	260°C ±5°C, 10 seconds ± 1 second				
Terminal Strength	No lead-coming off and loose terminals	_	Twist 360°C, 5 times				
Rapid Change of Temperature	±1%	±0.5%	-55°C (30 minutes), +125°C (30 minutes), 5 cycles				
Moisture Resistance	±5%	±2.5%	40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle				
Endurance at 70°C	±3%	±1.5%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle				
Resistance to Solvent (CFS & CFPS only)	No abnormality in appearance. Marking shall be easily legible.	_	Ultrasonic washing with Isopropyl alcohol for 2 minutes. Power: 0.3W/cm², f: 28kHz, temp: 35°C±5°C				
Flame Retardant (CFS & CFPS only)	No evidence of flaming or self-flaming	_	Flame test: The test flame shall be applied and removed for each 15 seconds respectively to repeat the cycle 5 times. Overload flame retardant: Power (AC) corresponding to 2, 4, 8, 16 and 32 times the power rating shall be applied for each 1 minute until disconnection occurs. However the applied voltage shall not exceed 4 times the maximum operating voltage.				

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

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100 J CFR50J3M3 OB1065 OH4315 LCA0207004701JD500 LCA0207001002J2500 LCA0207004701J2500 LCA0414004700J2100
CFR200G220R 291-0.82-RC 150-01011 MFR5-560KFI Z16LT52R MFS14CC3300F MFS1/4CC6201F MFS1/4CC68R0F
RNR55C3321FSM76 MRS25000C1741FC100 RWR80S1821FRB12 RWR81S24R9FRS73 RWR89S1000FRS73 NMO100J273TRF CFR-25JB-52-4K3 CFR-25JB-52-4R7 CFR-50JB-52-4R7 SPR1C391J SPR1CT52A472J SPR1CT52R1002F SPR1CT52R100J SPR1CT52R102J
SPR1CT52R103J SPR1CT52R220J SPR1CT52R222J SPR1CT52R332J SPR1CT52R471J SPR1CT52R561J SPR2C103J SPR2C183J
SPR2C680J SPR2CT521R181J