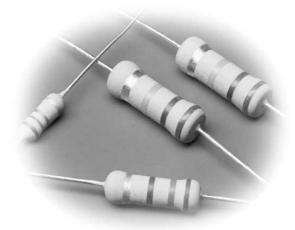




ceramic fixed power type leaded resistor

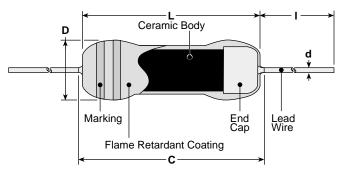




features

- Coated with UL94V0 flameproof material
- Suitable for automatic machine insertion
- Able to replace carbon composition resistors in most applications
- Marking: Light green body color with color-coded bands
- Products with lead-free terminations meet RoHS requirements

dimensions and construction



	Dimensions inches (mm)					
Туре	L C (max.)		D	d (nom.)	I	
PCF1/2	.354±.039 (9.0±1.0)	.437 (11.1)	.138±.02 (3.5±0.5)	.028 (0.7)	1.18±.118 (30.0±3.0)	
PCF1	0.65±.039 (16.5±1.0)	.748 (19.0)	.217±.039 (5.5±1.0)	.031	1.50±.118 (38.0±3.0)	
PCF2	.748±.039 (19.0±1.0)	.886 (22.5)	.276±.039 (7.0±1.0)	(0.8)		

ordering information

New Part #

PCF	1/2
Туре	Power Rating
	1/2
	1
	2
	L

C						
Termination Material						
C: SnCu						
(Other terminal styles available contact factory for options)						

T631	
Taping	
T631	1
T52	

	R
	Packaging
	R: Reel
_	

102					
Nominal Resistance					
2 significant figures + 1 multiplier					

K				
Tolerance				
K: ±10%				
M: ±20%				

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

applications and ratings

Part Designation	Power Rating @ 70°C	Minimum Dielectric Withstanding Voltage	Resistance Range E-12	Resistance Tolerance	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Absolute Maximum Pulse Voltage*	Operating Temperature Range
PCF1/2	0.5W	5001/	4.7Ω - 100KΩ K: ±10%		200V	400V	10kV	-40°C
PCF1	1.0W	500V		K. ±10%	K: ±10% M: ±20%	300V	600V	14kV
PCF2	2.0W	700V	3.3Ω - 390ΚΩ	101. ±2070	400V	800V	20kV	+200°C

^{*} Resistance to pulse: change shall be ±5% of the pre-test values. 1 sec. ON, 1 second OFF, 20,000 cycles. The voltage is applied with maximum pulse voltage.

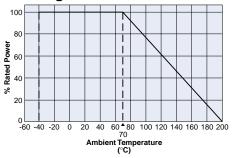




ceramic fixed power type leaded resistor

environmental applications

Derating Curve



Performance Characteristics

Danamatan	Requirement		-		
Parameter	Limit Typical		Test Method		
			Resistance Measurement voltage		
Resistance	Within regulated to tolerance	_	3.3Ω~8.2Ω 0.3V		
Resistance			10Ω~82Ω 1.0V		
			100Ω~390kΩ 3.0V		
T.C.R	-1200±300ppm/°C	_	+25°C/-40°C and +25°C/+125°C		
Voltage Coefficient (Apply for over $1k\Omega$)	0~-0.2%/V	_	Rated voltage and rated voltage x 10%		
Overload	2	0.4	Rated voltage x 2.5 or maximum overload voltage for 5s, whichever less		
Resistance to pulse	5	_	The resistor mounted to the test circuit as below. 1 sec. ON and 1 sec. OFF. 20,000 cycles. The voltage is applied with maximum pulse voltage. ON 1 sec ON SW 1 sec ON SW 1 sec OFF DC (Max. pulse voltage) Rx		
Resistance to soldering heat	2	0.8	350°C±10°C, 3.5s±0.5s		
Rapid change of temperature	2	0.4	-40°C(30min.)/+85°C(30min.), 5 cycles		
Moisture resistance	5	0.6	40°C±2°C, 90%~95%RH, 1000h, 1.5h ON/0, 5h OFF cycles		
Load life	5	0.4	70°C±3°C, 1000h, 1.5h ON/0, 5h OFF cycles		
Low temperature operation	5	_	-40°C±3°C, 24h		