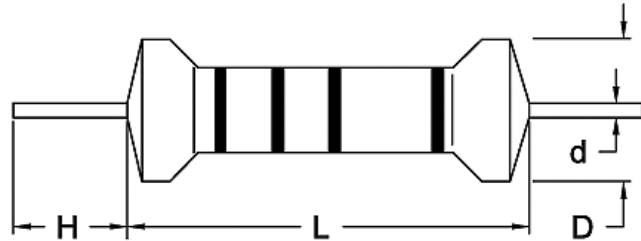
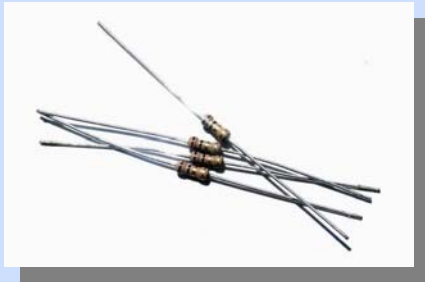


RCF Series

Carbon Film Resistors – General Purpose Type

TRIGON
COMPONENTS



Resistor

DIMENSIONS (in/mm)

STYLE	L	D	H	d
1/8 W 1/4 W(S)	0.13 ±0.02 (3.3±0.4)	0.07±0.01 (1.8±0.3)	1.10±0.08 (28±2)	0.017±0.0011 (0.43±0.03)
1/4 W 1/2 W(S)	0.25±0.02 (6.3±0.5)	0.09±0.01 (2.3±0.3)	1.10±0.08 (28 ±2)	0.020±0.002 (0.5±0.05)
1/2 W 1 W(S)	0.35±0.02 (9.0±0.5)	0.13±0.02 (3.2±0.5)	1.02±0.08 (26±2)	0.024±0.002 (0.6±0.05)
1 W 2 W(S)	0.45 ±0.04 (11.5 ±1.0)	0.18 ±0.02 (4.5 ±0.5)	1.38 ±0.08 (35 ±2.0)	0.028 ±0.002 (0.7 ±0.05)
2 W -	0.61 ±0.04 (15.5 ±1.0)	0.2 ±0.02 (5.0 ±0.5)	1.26 ±0.08 (32 ±2.0)	0.03 ±0.002 (0.8 ±0.05)

FEATURES

- Industry's Lowest Cost.
- Exceptional Long-Term Stability.
- Exceeds Carbon Comp MIL-R-11 Performance.
- Resistance Tolerance ±2%, ±5%.
- Variety of Packaging.

ORDERING CODE

RCF 103 J A T
(1) (2) (3) (4) (5)

(1) Series Name

(2) Resistance
3-Digit IEC Code (E-24)

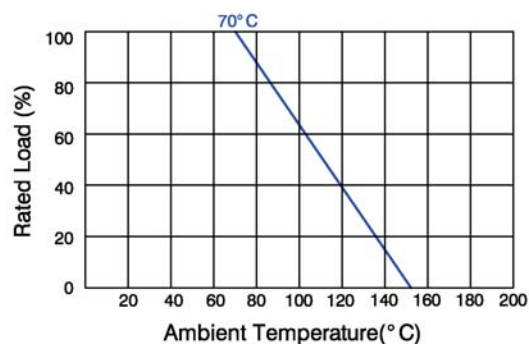
(3) Tolerance

(4) Power Rating

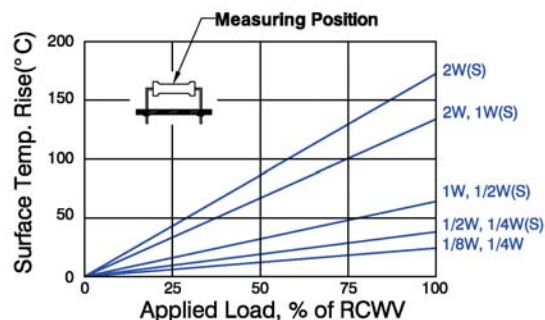
(5) Packing Style

※Please refer to complete Ordering Code document (R(Axial)-Ord) for more ordering options.

DERATING CURVE



HOT-SPOT TEMPERATURE



RCF Series

Carbon Film Resistors – General Purpose Type

TRIGON
COMPONENTS

ELECTRICAL CHARACTERISTICS

STYLE	RCF-A	RCF-BS	RCF-B	RCF-CS	RCF-C	RCF-DS	RCF-D	RCF-ES	RCF-E
Power Rating at 70°C	1/8 W	1/4 W	1/4 W	1/2 W	1/2 W	1 W	1 W	2 W	2 W
Operating Temp. Range	-55°C to +155°C								
Maximum Working Voltage	150V	200V	250V	300V	350V	400V	500V	500V	500V
Maximum Overload Voltage	300V	400V	500V	600V	700V	800V	1000V	1000V	1000V
Dielectric Withstanding Voltage	300V	400V	500V	500V	500V	700V	1000V	1000V	1000V
Value Range ±5%, ±2%	1Ω ~ 10MΩ								
Temperature Coefficient (by Type)	See Tab. 1								

※The listed resistance range for standard resistance (1Ω ~ 10MΩ), below or over this resistance is on request.

ENVIRONMENTAL CHARACTERISTICS

Performance Test	Test Method	Appraise
Short Time Overload	JIS-C-5202 5. 5: 2.5 times RCWV for 5 seconds	±(0.75%+0.05Ω)
Dielectric Withstanding V.	JIS-C-5202 5. 7: in V-Block for 60 seconds	By Type
Temperature Coefficient	JIS-C-5202 5. 2: -55°C ~ +155°C	By Type
Insulation Resistance	JIS-C-5202 5. 6: in V-Block	≥ 1000 MΩ
Solderability	JIS-C-5202 6. 5: 235°C for 5±0.5 seconds	95% min. coverage
Resistance to Solvent	JIS-C-5202 6. 9: Trichroethance for 1 min. with ultrasonic	No deterioration
Terminal Strength	Direct load for 10 sec. In the direction of the terminal leads	≥ 2.5 KG/ 24.5 N
Pulse Overload	JIS-C-5202 5. 8: 4 times RCWV 10000 cycles(1 sec.on,25 sec.off)	±(1%+0.05Ω)
Load life in Humidity	JIS-C-5202 7. 9: 40±2°C,90~95%RH at RCWV for 1000 hrs. (1.5 hrs. on, 0.5 hrs. off)	±(3%+0.05Ω)
Load Life	JIS-C-5202 7.10: 70°C at RCWV for 1000 hrs(1.5hrs.on,0.5hrs off)	±(3%+0.05Ω)
Temperature Cycling	JIS-C-5202 7. 4: 65°C~room temp. ~-150°C~room temp. for 5 cycle	±(1%+0.05Ω)
Soldering Heat	JIS-C-5202 6. 4: 350±10°C for 3±0.5 seconds	±(1%+0.05Ω)

※Rated continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$

Tab.1 TEMPERATURE COEFFICIENT

STYLE	Max. Value of Temp. Coefficient ppm/°C		
	Under 100 KΩ	100 KΩ to 1MΩ excl.	1MΩ and over
1 W, 2 W, 2 W(S)	±350	+350 -500	+350 -1000
1/8 W, 1/4 W, 1/2 W, 1/4 W(S), 1/2 W(S), 1 W(S)	+350 -500	+350 -700	+350 -1000

Lake-View Electronics Corp. 1054 Pioneer Rd. Grafton, WI Ph: 262-377-8250 Fax: 262-375-0109

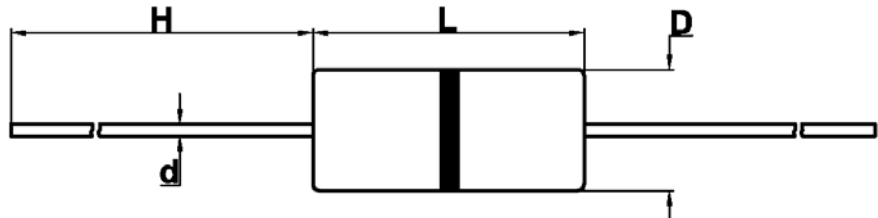
www.lvelectronics.com

Email: sales@lvelectronics.com

RCF Series

Carbon Film Resistors –General Purpose (Zerohm Resistors) Type

TRIGON
COMPONENTS



Resistor

FEATURES

- Ideal for automatic insertion or Cut and Form.
- Available in Tape/Reel, Tape/Box and Bulk.
- Film type Zerohm also available in 1/8W and 1/4W size.

DIMENSIONS (in/mm)

STYLE	L	D	H	d
1/8 W	0.13 ±0.02 (3.3±0.4)	0.07±0.01 (1.8±0.3)	1.10±0.08 (28±2)	0.020±0.002 (0.5±0.05)
1/4 W	0.25±0.02 (6.3±0.5)	0.09±0.01 (2.3±0.3)	1.10±0.08 (28 ±2)	0.020±0.002 (0.5±0.05)

ORDERING CODE

RCF 000 J B T
(1) (2) (3) (4) (5)

(1) Series Name

(2) Resistance

(3) Tolerance

(4) Power Rating

(5) Packing Style

SPECIFICATIONS

Maximum Resistance	0.005Ω
Min. Insulation Resistance Dry Wet	10,000MΩ 100MΩ
Min. Dielectric Withstanding Voltage Atmospheric Reduced	500V RMS 325V RMS
Insulation Flammability	Resistor Insulation is Self Extinguishing within 10 Seconds After Externally Applied Flame is Removed.
Current Rating	15 AMPS at 70°C for 1/4 W 10 AMPS at 70°C for 1/8 W

※Please refer to complete Ordering Code (Leaded Resistors) for more ordering options.