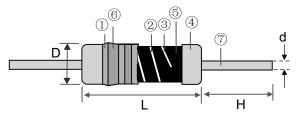


Constructions



a	Insulation Coating (Expose resin)
ь	Trimming Line
С	Ceramic Rod (Alumina ceramic)
d	Electrode Cap (Tinned iron cap)
e	Resistor Layer
f	Marking (Expose)
g	Lead Wire (Tinned annealed copper wire)

Features

I High stability.

I Low noise coefficient.

 $\ensuremath{\mathbb{II}}$ Excellent high frequency characteristic.

IV High thermal conductivity.

Applications

I Telecom.

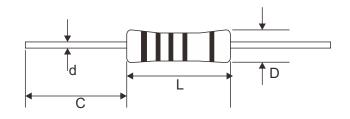
II Medical and calibration equipment.

III Industrial process control systems.

IV Audio and video.

V Precision equipment, military and avionics

Dimensions



Туре	Dimensions(mm)					
	L	D	С	d		
FCR0204	3.4 ± 0.3	1.9±0.2	28±2.0	0.45 ± 0.05		
FCR0207	6.3 ± 0.5	2.4±0.3	28±2.0	0.55 ± 0.05		

Ordering Information

Example:

FCR	04	В	С	Τ	100R0
(1)	(2)	(3)	(4)	(5)	(6)
Series Name	Power	Resistance	TCR	Packaging	Resistance
	Rating	Tolerance			

(1) Type: FCR SERIES

(2) Power Rating: 04=0.4W,06=0.6W

(3) Tolerance: $B = \pm 0.1\%$, $J = \pm 5\%$

(4)TCR: $\leq \pm 300$ PPM/ $^{\circ}$ C;

(5) Packaging: B=bulk, T=Tape&Reel

(6) Resistance Value: $0R100 = 0.1\Omega$, $100R0 = 100\Omega$, $10K00 = 10K\Omega$, $1M000 = 1M\Omega$

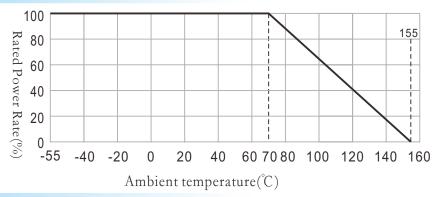
Reference Standards

JIS C 5202

Applications And Ratings

Туре		Rated Power at 70°C (W)	Max.Working Voltage(V)	Insulate Voltage(V)	Max. Overload Voltage(V)	Resistance Range(Ω)	TCR (PPM/°C)	Tolerance Range	Operating Temperature
FCR0204	0.4W	1/4W	250	300	500	1Ω~10ΜΩ	≤ ± 300PPM/°C	±1.0%	-55~125℃
FCR0207	0.6W	1/3W	350	500	700	1Ω~10ΜΩ		±5.0%	-55~125C

Derating Curve



Performance Characteristics

Test Item	Performance	Test Condition (JIS-C-5202)
Short Time Overload	$\pm 0.25\% + 0.05\Omega$	2.5 times RCWV for 5 Sec
Voltage Proof on Insulation	By type	in V-block for 60 Sec., test voltage by type
Temperature Coefficient	By type	-55℃ to +155℃
Insulation Resistance	>1,000MΩ	in V-block for 60 Sec.
Solderability	95% Min. coverage	235 ± 5 °C for 3 ± 0.5 Sec.
Solvent Resistance of Marking	No deterioration of coatings and markings	IPA for 5 ± 0.5 Min. with ultrasonic
Robustness of Terminations	\geq 2.5kg (24.5N)	Direct load for 10 Sec. in the direction of the terminal leads
Periodic-pulse Overload	$\pm 1.0\% + 0.05\Omega$	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)
Damp Heat Steady State	$\pm 1.5\% + 0.05\Omega$	40 ± 2 °C, 90-95% RH for 56 days, loaded with 0.1 times RCWV
Endurance at 70℃	$\pm 1.5\% + 0.05\Omega$	70 ± 2°C at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)
Temperature Cycling	$\pm 0.75\% + 0.05\Omega$	-55°C →Room Temp. →+155°C →Room Temp. (5 cycles)
Resistance to Soldering Heat	$\pm 0.25\% + 0.05\Omega$	260 ± 3 °C for 10 ± 1 Sec., immersed to a point 3 ± 0.5 mm from the body
Accidental Overload Test	No evidence of flaming or arcing	4 times RCWV for 1 Min.