

Commercial Grade Power Axial Wirewound Resistor

OBSOLETE

CCW Series

Features

- Power ratings from 1/2W to 9W
- Non-inductive windings available
- Ceramic core wirewound resistor
- Resistance range from 0.1Ω to 1.5kΩ
- Welded construction, conformal coating



 All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

IRC Type	Power rating at 70°C (W)	Resistance Range* (Ohms)	Tolerance (±%)	Temperature Coefficient of Resistance (±ppm/°C)
CCW - 1/2	0.5	0.1 - 39	2, 5, 10	300 (≥20Ω) 400 (<20Ω)
CCW - 1	1	0.1 - 50	2, 5, 10	
CCW - 2	2	0.1 - 120	2, 5, 10	
CCW - 3	3	0.1 - 200	2, 5, 10	
CCW - 5	5	0.5 - 470	2, 5, 10	
CCW - 7	7	0.5 - 470	2, 5, 10	
CCW - 8	8	1 - 1.5K	2, 5, 10	
CCW - 9	9	1 - 1.5K	2, 5, 10	

*For resistance values outside these ranges, contact factory.

Environmental Data

Short-time overload	$\Delta R/R \leq (\pm 2\% + 0.05\Omega)$, 2.5 Nominal power for 5 seconds
Dielectric withstanding voltage	1000V
Resistance to Soldering heat	$\Delta R/R \leq (\pm 1\% + 0.05\Omega)$
Operating temperature range	-55°C to 275°C

General Note

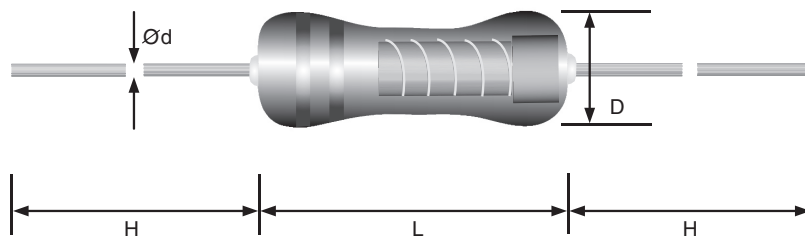
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Physical Data



Dimensions (mm)

IRC Type	D (±1)	L (max.)	d (±0.02)	H (±3)
CCW - 1/2	4.0	10.0	0.7	28
CCW - 1	5.0	12.0	0.7	28
CCW - 2	5.5	16.0	0.8	28
CCW - 3	6.5	17.5	0.8	28
CCW - 5	8.5	26.0	0.8	38
CCW - 7	8.5	32.0	0.8	38
CCW - 8	8.5	41.0	0.8	38
CCW - 9	8.5	54.0	0.8	38

General Note

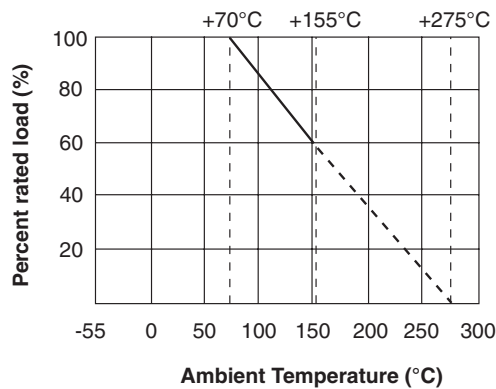
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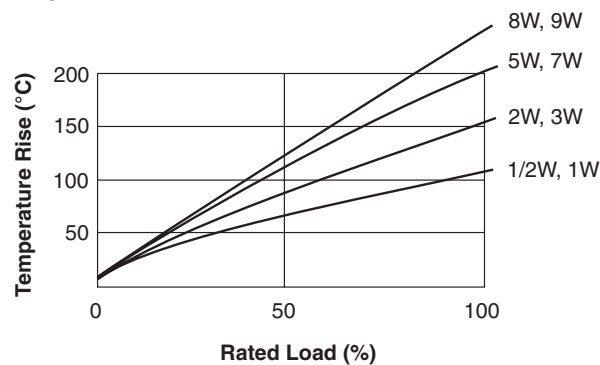
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Performance Curves

Derating Curve



Temperature Rise Chart



Ordering Data

Specify type, resistance, tolerance, RoHS-Compliance and packaging.
This example is for a Power Axial Wirewound, 2-watt, 1000Ω resistor.

Sample Part No. **CCW** **2** **1001** **J** **LF** **BLK**

IRC Type
CCW - Power Axial Wirewound

Power rating
(see specs table)

Resistance Value (EIA 4-digit code)
(≥100Ω - First 3 significant digits plus 4th digit multiplier)
Example: 100Ω = 1000; 1000Ω = 1001
(>100Ω - "R" is used to designate decimal)
Example: 10Ω = 10R0; 1Ω = 1R00; 0.25Ω = R250

Tolerance (EIA format)
G = ±2%
J = ±5%
K = ±10%

RoHS - Compliance
LF = RoHS compliant construction

Packaging
BLK = bulk packaging