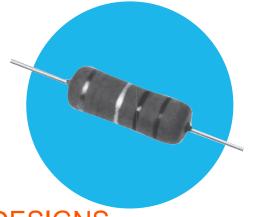
## **Resistors**



# **Commercial Grade Power Axial Wirewound Resistor**

### **CCW Series**

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



NOT RECOMMENDED FOR NEW DESIGNS

All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

## **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	

<sup>\*</sup>For resistance values outside these ranges, contact factory.

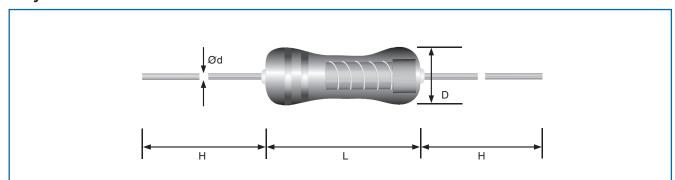
## **Environmental Data**

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



### NOT RECOMMENDED FOR NEW DESIGNS **CCW Series**

## Physical Data



#### Dimensions (mm) **IRC Type** D (±1) L (max.) d (±0.02) H (±3) CCW - 1/2 4.0 0.7 10.0 28 CCW - 1 5.0 12.0 0.7 28 CCW - 2 5.5 16.0 8.0 28 **CCW - 3** 6.5 17.5 8.0 28 CCW - 5 8.5 26.0 8.0 38 CCW - 7 8.5 32.0 8.0 38 **CCW - 8** 8.5 41.0 8.0 38 CCW - 9 8.5 54.0 8.0 38

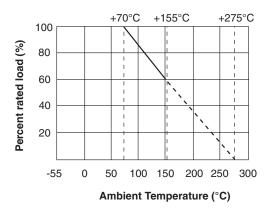


**CCW Series** 

# NOT RECOMMENDED FOR NEW DESIGNS

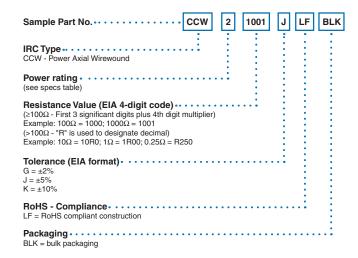
## Performance Curves

### **Derating Curve**



## **Ordering Data**

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



### **Temperature Rise Chart**

