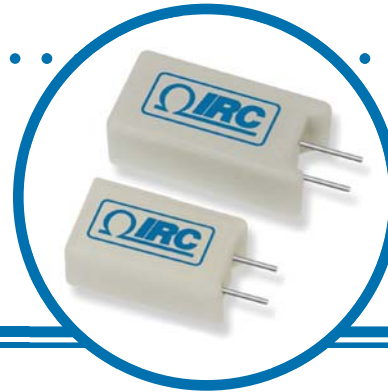


# Commercial Grade Vertical Mount Power Wirewound & Film Resistors

## CVW/CVF Series

- Power ratings from 2W to 10W
- Non-inductive winding available
- Resistance range from 0.1Ω to 200KΩ
- Vertical mounting configuration saves board space
- Flameproof ceramic case with inorganic potting material



## Electrical Data

IRC Type	Power Rating at 70°C (W)	Resistance Range* (Ohms)	Tolerance (±%)	Temperature Coefficient of Resistance (±ppm/°C)
<b>Wirewound Type (CVW)</b>				
CVW - 2	2	0.1 - 27	5, 10	400 (<20Ω) 350 (≥20Ω)
CVW - 3	3	0.1 - 39		
CVW - 5	5	0.1 - 47		
CVW - 7	7	0.1 - 680		
CVW - 10	10	0.1 - 910		
<b>Film Type (CVF)</b>				
CVF - 2	2	28 - 33K	5, 10	400 (<20Ω) 350 (≥20Ω)
CVF - 3	3	40 - 56K		
CVF - 5	5	48 - 100K		
CVF - 7	7	681 - 200K		
CVF - 10	10	911 - 200K		

\* For resistance values outside these ranges, contact factory.

## Environmental Data

<b>Short-time overload</b>	CVF: ±5% + 0.05Ω; 10 x nominal power for 5 seconds
	CVW: ±5% + 0.05Ω; 10 x nominal power for 5 seconds
<b>Dielectric withstanding voltage</b>	1000Vac
<b>Resistance to Soldering heat</b>	±5% + 0.05Ω
<b>Operating temperature range</b>	-55°C to 275°C

### General Note

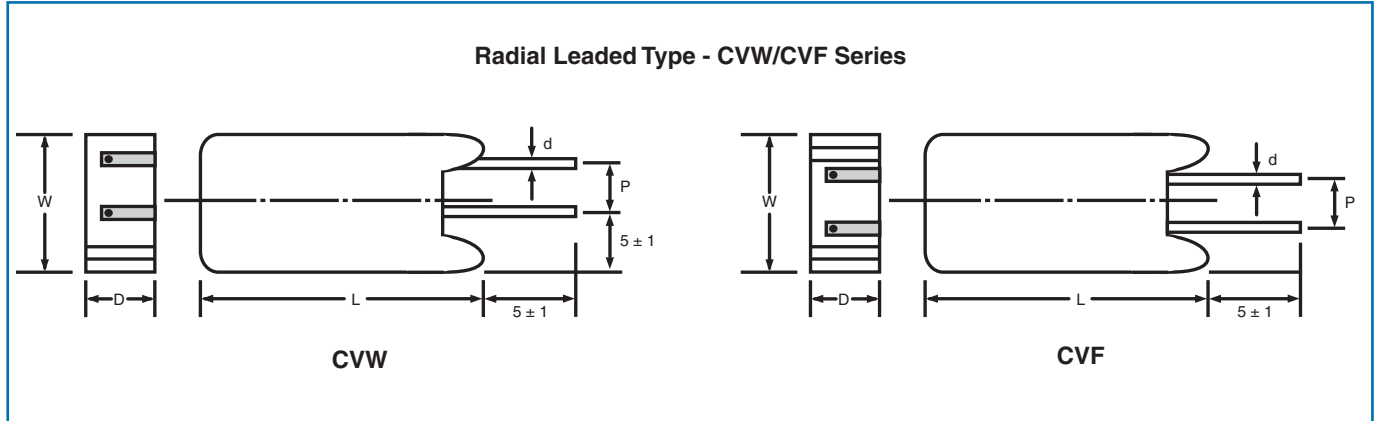
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

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# Commercial Grade Vertical Mount Power Wirewound & Film Resistors



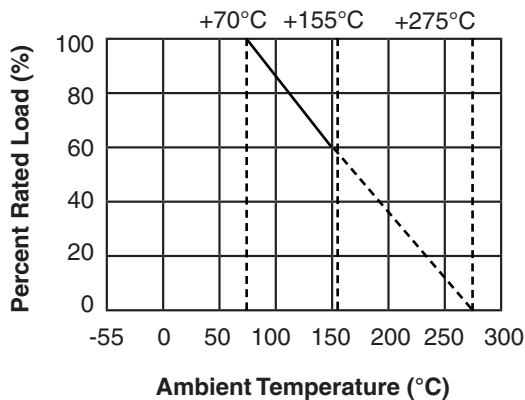
## Physical Data



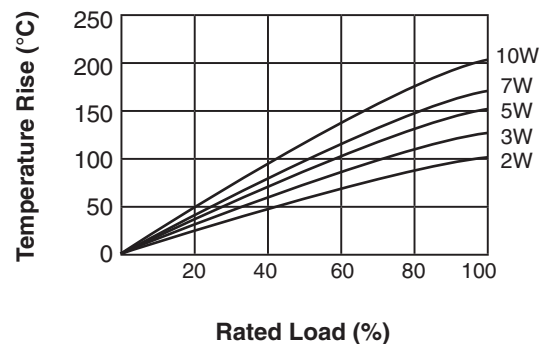
**Dimensions (mm)**

IRC Type		W ( $\pm 1$ )	D ( $\pm 1$ )	L ( $\pm 1$ )	P ( $\pm 1$ )	d ( $\pm 0.02$ )
Wirewound Type	Film Type					
CVW - 2	CVF - 2	11.5	7.5	20.0	5	0.7
CVW - 3	CVF - 3	12.5	8.5	25.0	5	0.7
CVW - 5	CVF - 5	12.5	9.0	25.0	5	0.8
CVW - 7	CVF - 7	12.5	9.0	38.0	5	0.8
CVW - 10	CVF - 10	12.5	9.0	50.0	5	0.8

## Power Derating Curve



## Temperature Rise Chart



# Commercial Grade Vertical Mount Power Wirewound & Film Resistors



## Ordering Data

Specify type, resistance, tolerance, RoHS-Compliance and packaging.  
This example is for a ceramic vertical film, 2-watt, 1000Ω resistor.

