

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)
Wirewound Type (CVW)				
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		
Film Type (CVF)				
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

Short-time overload	CVF: ±5% + 0.05Ω; 10 x nominal power for 5 seconds
	CVW: ±5% + 0.05Ω; 10 x nominal power for 5 seconds
Dielectric withstanding voltage	1000Vac
Resistance to Soldering heat	±5% + 0.05Ω
Operating temperature range	-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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Physical Data

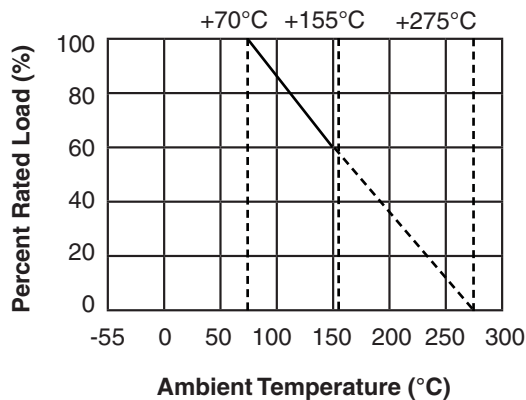
Radial Leded Type - CVW/CVF Series

The image displays two technical drawings of radial leaded resistors, labeled CVW and CVF. Both drawings show a side view and a top view. The side view shows a cylindrical body with a length L and a diameter D. The top view shows a rectangular body with a width W and a length L. The lead length is specified as 5 ± 1. The lead thickness is specified as d. The lead pitch is specified as P. The CVW drawing shows a single lead, while the CVF drawing shows two leads.

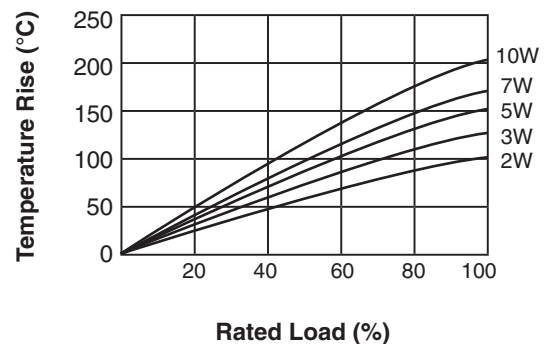
Dimensions (mm)

IRC Type		W (±1)	D (±1)	L (±1)	P (±1)	d (±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



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Ordering Data

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

Sample Part No.	CVF	2	1001	J	LF	TR
IRC Type						
CVF - Ceramic Vertical Film CVW - Ceramic Vertical 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 = 51R0, 0.25Ω = R250						
Tolerance (EIA format)						
J = ±5% K = ±10%						
RoHS- compliance						
LF = RoHS compliant construction						
Packaging						
TR = Tape and reel only						