

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.

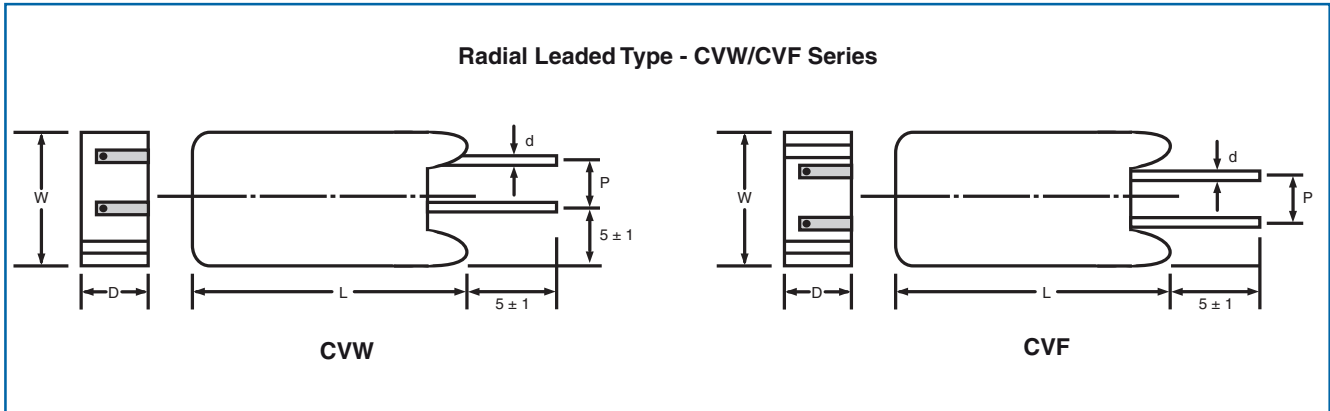
Environmental Data

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

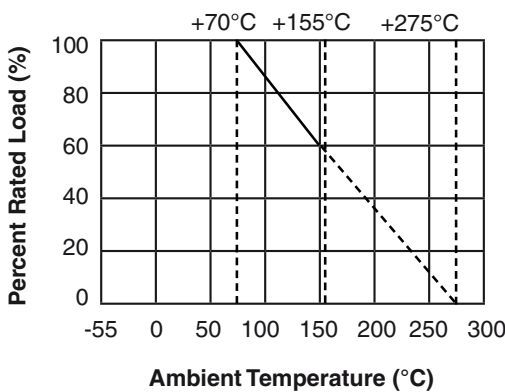
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Physical Data

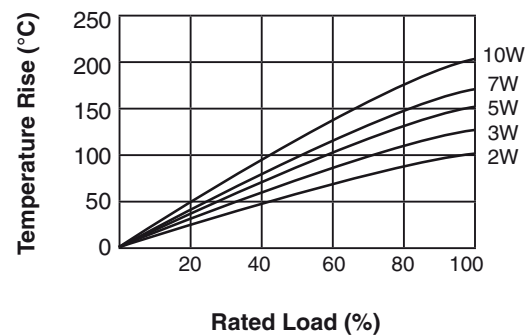


IRC Type		Dimensions (mm)				
Wirewound Type	Film Type	W (± 1)	D (± 1)	L (± 1)	P (± 1)	d (± 0.02)
CVW - 2	CVF - 2	11.5	7.5	20.0	5	0.7
CVW - 3	CVF - 3	12.5	8.5	25.0	5	0.7
CVW - 5	CVF - 5	12.5	9.0	25.0	5	0.8
CVW - 7	CVF - 7	12.5	9.0	38.0	5	0.8
CVW - 10	CVF - 10	12.5	9.0	50.0	5	0.8

Power Derating Curve



Temperature Rise Chart

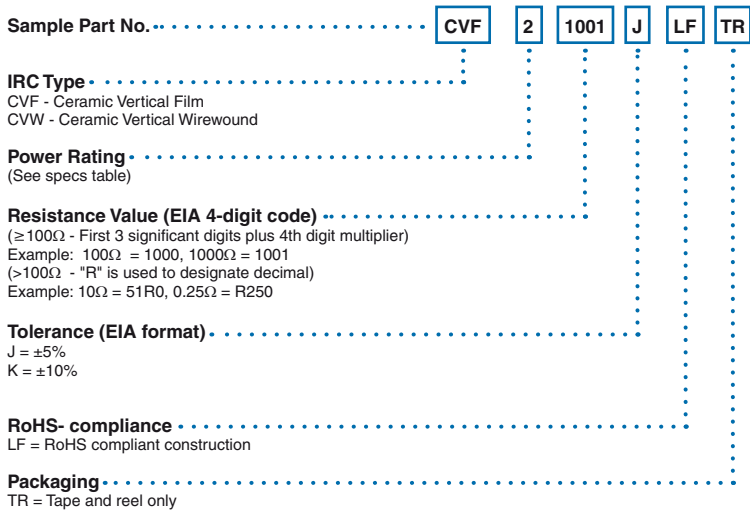


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Ordering Data

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



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