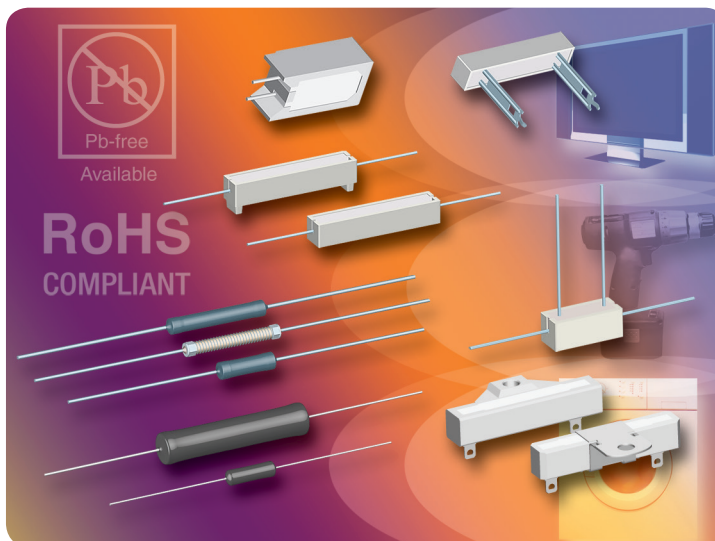




WIREWOUND RESISTORS

Resistive Products

Commercial Wirewound Resistors



KEY BENEFITS

- A wide range of power ratings (0.5 W to 125 W)
- A wide resistance range (0.01 Ω to 167 k Ω)
- Low/high temperature performance (-65 $^{\circ}\text{C}$ to +350 $^{\circ}\text{C}$)
- Low cost
- Excellent overload capability

APPLICATIONS

- White goods/home entertainment
- Power supplies/welders/power tools
- Applications that require UL-approved circuitry
- Op amp control
- Current sensing
- High-voltage applications/surge applications

RESOURCES

- For technical questions on Vishay Dale products contact ww2aresistors@vishay.com
- For technical questions on Vishay Milwaukee products contact ww2cresistors@vishay.com
- Sales Contacts: <http://www.vishay.com/doc?99914>



RoHS
COMPLIANT

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

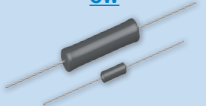
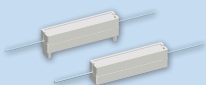
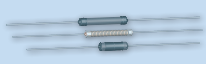
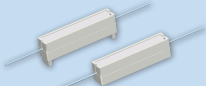


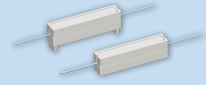
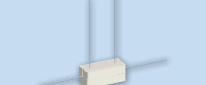







WIREWOUND RESISTORS

Resistive Products

Resistors - Wide Range of Power Ratings

Product	Global Model Number	Historical Model Number	Wattage (W)	Resistance Range	TCR (ppm/°C)	Tolerance
Vishay Dale <u>CW</u> 	CW1/2 CW001 CW02C CW02B CW002 CW005 CW007 CW010	CW-1/2 CW-1 CW-2C CW-2B CW-2 CW-5 CW-7 CW-10	0.5 1 3.25 3.75 5.5 6.5 9.0 13.0	0.1 Ω to 1.77 kΩ 0.1 Ω to 6.37 kΩ 0.1 Ω to 19.9 kΩ 0.1 Ω to 15 kΩ 0.1 Ω to 28.7 kΩ 0.1 Ω to 58.5 kΩ 0.1 Ω to 95.2 kΩ 0.1 Ω to 167 kΩ	± 30, ± 50, ± 90	± 5 %, ± 10 %
Vishay Dale <u>CPW</u> (Non-inductive CPWN) 	CPW02 CPW03 CPW05 CPW07 CPW10 CPW15 CPW20	CPW-2 CPW-3 CPW-5 CPW-7 CPW-10 CPW-15 CPW-20	2 3 5 7 10 15 20	0.1 Ω to 7 kΩ 0.1 Ω to 7.5 kΩ 0.1 Ω to 8.5 kΩ 0.1 Ω to 18 kΩ 0.12 Ω to 30 kΩ 0.12 Ω to 30 kΩ 0.18 Ω to 45 kΩ	± 30, ± 50, ± 90	± 1 %, ± 5 %
Vishay Dale <u>CA</u> 	CA0001 CA0002 CA4000 CA5000	CA-1 CA-2 CA-4000 CA-5000	1 2 2.0 to 8.8 2.5 to 11.0	0.1 Ω to 1 kΩ 0.1 Ω to 2.4 kΩ 0.1 Ω to 1.02 kΩ 0.1 Ω to 7 kΩ	± 300, ± 600	± 5 %, ± 10 %
Vishay Dale <u>CP</u> 	CP0002 CP0003 CP0005 CP0007 CP0010 CP0015 CP0020 CP0022 CP0025	CP-2 CP-3 CP-5 CP-7 CP-10 CP-15 CP-20 CP-22 CP-25	2 3 5 7 10 15 20 22 25	0.1 Ω to 30 kΩ* 0.1 Ω to 33 kΩ* 0.1 Ω to 50 kΩ* 0.1 Ω to 50 kΩ* 0.1 Ω to 50 kΩ* 0.1 Ω to 50 kΩ* 0.1 Ω to 50 kΩ* 0.1 Ω to 10 kΩ 0.1 Ω to 10 kΩ	± 300, ± 600	± 5 %, ± 10 %
Vishay Dale <u>CPR</u> 	CPR03 CPR05 CPR07 CPR10 CPR15 CPR20	CPR-3 CPR-5 CPR-7 CPR-10 CPR-15 CPR-20	3 5 7 10 15 20	0.1 Ω to 1 kΩ 0.1 Ω to 1 kΩ 0.1 Ω to 1.429 kΩ 0.1 Ω to 2 kΩ 0.1 Ω to 2 kΩ 0.15 Ω to 2.855 kΩ	± 300, ± 600	± 5 %, ± 10 %
Vishay Dale <u>CP Quick Connect</u> 	CP015B CP020B CP026B CP26SM CP050B	CP-15B CP-20B CP-26B CP-26SM CP-50B	15 20 25 25 50	0.1 to 288 Ω 0.1 to 460 Ω 0.12 to 570 Ω 0.12 to 570 Ω 0.16 to 740 Ω	± 300, ± 600	± 5, ± 10%
Vishay Dale <u>CPL</u> 	CPL03 CPL05 CPL07 CPL10 CPL15	CPL-3 CPL-5 CPL-7 CPL-10 CPL-15	3 5 7 10 15	0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω	± 300	± 1 %, ± 5 %
Vishay Dale <u>CPSL</u> 	CPSL03...5 CPSL05...5 CPSL07...5 CPSL10...5 CPSL15...5	CPSL-3-5 CPSL-5-5 CPSL-7-5 CPSL-10-5 CPSL-15-5	3 5 7 10 15	0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω 0.01 Ω to 0.10 Ω	± 100	± 1 %, ± 5 %
Vishay Dale <u>CPCL, CPCC, CPCP, CPCF</u> 	CPCx02 CPCx03 CPCx05 CPCx07 CPCx10	CPCx-2 CPCx-3 CPCx-5 CPCx-7 CPCx-10	2 3 5 7 10	0.01 Ω to 150 kΩ* 0.01 Ω to 150 kΩ* 0.01 Ω to 150 kΩ* 0.1 Ω to 50 kΩ* 0.01 Ω to 8 kΩ	± 20 to ± 600	± 1 % to ± 10 %
Vishay Dale <u>SPR2213/2214</u> 	SPR2213 SPR2214	SPR-2213 SPR-2214	40 / 70 50 / 100	0.5 Ω to 24 kΩ 1.0 Ω to 44 kΩ	± 30, ± 50	± 5 %, ± 10 %
Vishay Milwaukee <u>MCR</u> 	MCRL0045 MCRL0070 MCRL0100 MCRL0125	12M16 12M40 12M59 12M89	20 / 45 40 / 70 50 / 100 65 / 125	1.1 Ω to 2.75 kΩ 0.2 Ω to 22 kΩ 0.2 Ω to 66 kΩ 0.25 Ω to 76 kΩ	± 400, ± 180, ± 130, ± 20	± 5 %, ± 10 %

* High resistance values are metal oxide technology. Please see the datasheet for applicable resistance value ranges.