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# New Product Info



**Product Group:** Vishay Dale Resistors / June 2015

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## New CW...HE Axial Lead Wirewound Resistors Offer Reliable High-Energy Surge Protection to 106.5 J

### Product Benefits:

- Silicone coated
- High-energy surge protection up to 106.5 J
- High-temperature operation to +350 °C
- Rugged, completely welded construction for increased reliability
- High power ratings from 3 W to 13 W at 25 °C
- 2,000-hour load-life stability of less than  $\pm 3\%$  at +25 °C
- Resistances from 2  $\Omega$  to 938  $\Omega$
- Tolerances of  $\pm 5\%$  and  $\pm 10\%$
- TCR:
  - $\pm 50$  ppm/°C for resistance from 2.0  $\Omega$  to 9.9  $\Omega$
  - $\pm 30$  ppm/°C for resistance of 10  $\Omega$  and above
- Available with both lead (Pb)-free and tin/lead terminations



### Market Applications:

- Communication equipment, power supplies, metering and welding equipment, power tools, and appliances

### The News:

Vishay Intertechnology introduces a new series of silicone-coated axial lead wirewound resistors that provides high-energy surge protection to 106.5 J and can be utilized in high-temperature operating conditions up to +350 °C.

- Provides overload and surge energy protection exceeding IEC 61000-4-5 (1.2  $\mu$ s/50  $\mu$ s)
- Offers superior short-term energy surge protection compared with standard wirewound devices
- High-temperature silicone coating allows for operating temperature ranges of -65 °C to +250 °C (characteristic U) and -65 °C to +350 °C (characteristic V)



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## The Key Specifications:

Model	Power rating $P_{25\text{ °C}}$ (W)		Energy rating <sup>1</sup> (J)	Resistance range ( $\Omega$ )
	Characteristic U +250 °C	Characteristic V +350 °C		
CW02B...HE	3.0	3.75	2.7 to 10.4	2.0 to 87.5
CW005...HE	5.0	6.5	10.5 to 39.1	7.6 to 34.3
CW010...HE	10.0	13.0	28.7 to 106.5	20.7 to 938

*Note 1: Energy rating depends on resistance value*

**Availability:** Samples and production quantities of the CW - High Energy series are available now, with a lead time of six to seven weeks for larger orders.

To access the product datasheet on the Vishay Website, go to  
<http://www.vishay.com/ppg?30286> (CW - High Energy)

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