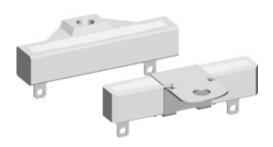


www.vishay.com

Vishay Dale

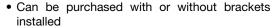
Wirewound Resistors, Commercial High Power, **Quick Connect Terminals**



Please reference the Vishay Dale closest equivalent: PC Quick Connect (www.vishay.com/doc?31826).

- There may be slight differences between the CP Quick Connect product and the PC Quick Connect product.
- See the cross-reference file for a complete list of differences and part number crosses:
 - www.vishav.net/files/Cross-Reference%20Data%20-%20PTN-DR-021-2015%20Rev%200.pdf.

FEATURES





RoHS

COMPLIANT HALOGEN FREE **GREEN**

(5-2008)

High power ratings

· Quick connect terminals

- · Special inorganic potting compound and ceramic case provide high thermal conductivity in a fireproof package
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

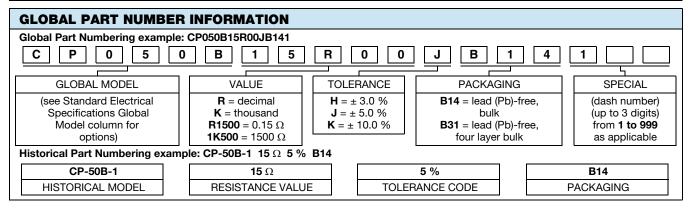
The CP resistors are suited for use in high ambient temperatures and also where ease of mounting and electrical connections are to be made with quick connect terminals. Model CP0050 is particularly recommended for automotive electronic ignition ballast, appliance and motor ballasts and two-speed fans.

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | | |
|------------------------------------|-----------------------|------------------------------------|---------------------------|------------------|--------------------------|--|--|
| GLOBAL MODEL | HISTORICAL MODEL | POWER RATING P _{40 °C} W | RESISTANCE RANGE Ω | TOLERANCE ± % | WEIGHT (typical) g | | |
| CP015B | CP-15B | 15 | 0.1 to 288 | 5, 10 | 21.5 | | |
| CP020B | CP-20B | 20 | 0.1 to 460 | 5, 10 | 27.5 | | |
| CP026B (1) | CP-26B ⁽¹⁾ | 25 | 0.12 to 570 | 5, 10 | 44.0 | | |
| CP26SM | CP-26SM | 25 | 0.12 to 570 | 5, 10 | 56.9 | | |
| CP050B (1) | CP-50B ⁽¹⁾ | 50 | 0.16 to 740 | 5, 10 | 90.0 | | |
| CP050B1 (1) | CP-50B-1 (1) | 50 | 0.16 to 740 | 5, 10 | 90.0 | | |

Note

(1) To order the CP026B, CP050B and CP050B...1 without brackets, remove the B from model number (CP0026, CP0050 and CP0050...1).

| TECHNICAL SPECIFICATIONS | | | | | |
|---------------------------------|-----------------|--|--|--|--|
| PARAMETER | UNIT | CP QUICK CONNECT CHARACTERISTICS | | | |
| Temperature Coefficient | ppm/°C | \pm 300 for 1.0 Ω and above; \pm 600 below 1.0 Ω | | | |
| Short Time Overload | - | 10 x rated power for 5 s | | | |
| Operating Temperature Range | °C | -65 to +275 | | | |
| Dielectric Withstanding Voltage | V _{AC} | 1000 | | | |
| Maximum Working Voltage | V | $(P \times R)^{1/2}$ | | | |



Revision: 15-Feb-16 Document Number: 30233

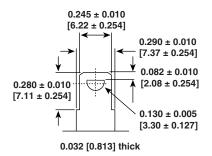


www.vishay.com

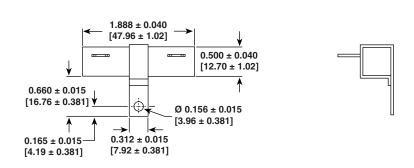
Vishay Dale

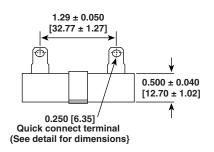
DIMENSIONS in inches [millimeters]

Quick connect terminal connections 0.250 [6.35]

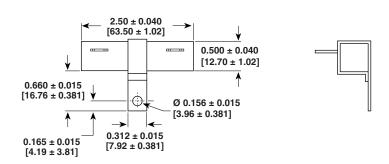


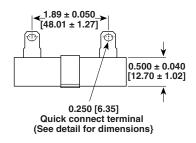
MODEL CP015B



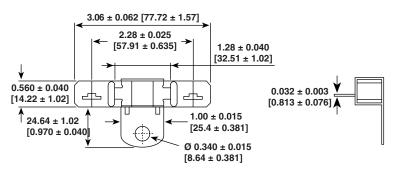


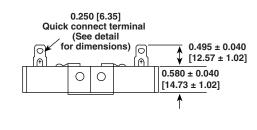
MODEL CP020B





MODEL CP0026 AND CP026B

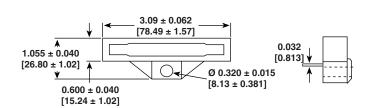


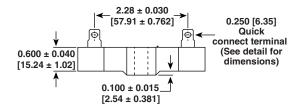




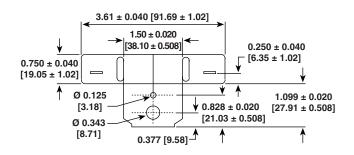
Vishay Dale

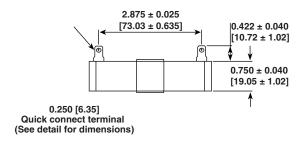
MODEL CP26SM



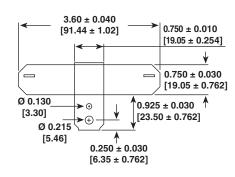


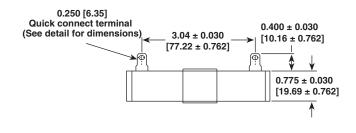
MODEL CP0050 AND CP050B





MODEL CP0050...1 AND CP050B...1



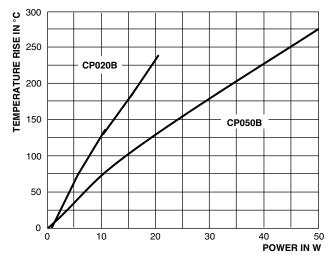




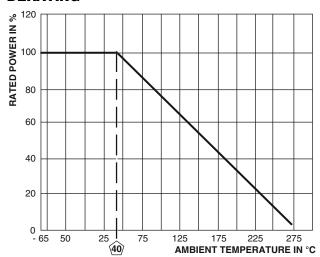
www.vishay.com

Vishay Dale

TEMPERATURE RISE



DERATING



MATERIAL SPECIFICATIONS

Element: copper-nickel alloy or nickel-chrome alloy, depending on resistance value

Core: woven fiberglass

Body: steatite ceramic case with inorganic potting

compound

Terminals: bare brass

Bracket: aluminum

Part Marking: DALE, model, wattage, value, tolerance, date

code

| PERFORMANCE | | | | | |
|---------------------------------|--|--------------------------|--|--|--|
| TEST | CONDITIONS OF TEST | TEST LIMITS (EIA RS-344) | | | |
| Thermal Shock | -55 °C to +275 °C, 5 cycles, 30 min dwell time | ± (5.0 % + 0.05 Ω) ΔR | | | |
| Short Time Overload | 10 x rated power for 5 s | ± (4.0 % + 0.05 Ω) ΔR | | | |
| Dielectric Withstanding Voltage | 1000 V _{RMS} for 1 min | ± (2.0 % + 0.05 Ω) ΔR | | | |
| Low Temperature Operation | -65 °C, full rated working voltage for 45 min | ± (3.0 % + 0.05 Ω) ΔR | | | |
| Humidity | 75 °C, 90 % to 100 % RH, 240 h | ± (5.0 % + 0.05 Ω) ΔR | | | |
| Load Life | 1000 h at rated power, +40 °C, 1.5 h "ON", 0.5 h "OFF" | ± (10.0 % + 0.05 Ω) ΔR | | | |
| Terminal Strength | 10 pounds for 30 s | ± (2.0 % + 0.05 Ω) ΔR | | | |



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.