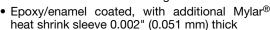


Carbon Film Resistors, General Purpose, High Voltage



FEATURES

- Ratings to 10 W, 40 kV
- · Available with either radial lugs or axial leads





• ± 20 % tolerance standard, tolerances of ± 15 %,

 \pm 10 % and \pm 5 % available

• See models D and G for special purpose high RoHS voltage carbon film resistors

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

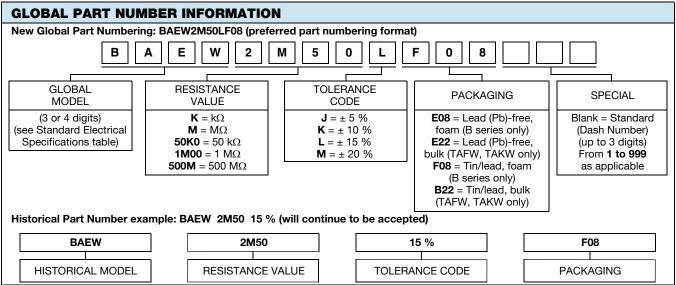
This datasheet provides information about parts that are RoHS-compliant and / or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details.

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | |
|------------------------------------|------------------------------------|-------------------------------------|---|----------------------|-------|--|
| GLOBAL MODEL | POWER RATING P _{25 °C} W | MAXIMUM WORKING VOLTAGE (1) V | RESISTANCE RANGE ⁽²⁾ Ω | TOLERANCE (3) ± % | STYLE | |
| BAEW | 0.5 | 2.5K | 50K to 500M | 5, 10, 15, 20 | 2 | |
| BAKW | 1 | 5K | 100K to 500M | 5, 10, 15, 20 | 2 | |
| BBF | 1 | 3.5K | 50K to 500M | 5, 10, 15, 20 | 1 | |
| BBFW | 1 | 3.5K | 50K to 500M | 5, 10, 15, 20 | 2 | |
| BBM | 2 | 7.5K | 50K to 500M | 5, 10, 15, 20 | 1 | |
| BBMW | 2 | 7.5K | 50K to 500M | 5, 10, 15, 20 | 2 | |
| BBR | 3 | 15K | 100K to 500M | 5, 10, 15, 20 | 1 | |
| BBRW | 3 | 15K | 100K to 500M | 5, 10, 15, 20 | 2 | |
| BBV | 5 | 30K | 200K to 500M | 5, 10, 15, 20 | 1 | |
| BFQ | 4 | 15K | 100K to 500M | 5, 10, 15, 20 | 1 | |
| BFT | 6 | 25K | 200K to 500M | 5, 10, 15, 20 | 1 | |
| BFW | 10 | 40K | 400K to 500M | 5, 10, 15, 20 | 1 | |
| TAFW | 1 | 5K | 1M to 500M | 5, 10, 15, 20 | 3 | |
| TAKW | 1.5 | 7.5K | 1M to 500M | 5, 10, 15, 20 | 3 | |

Notes

Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.

 $[\]pm$ 20 % standard, \pm 5 %, \pm 10 %, and \pm 15 % are available.

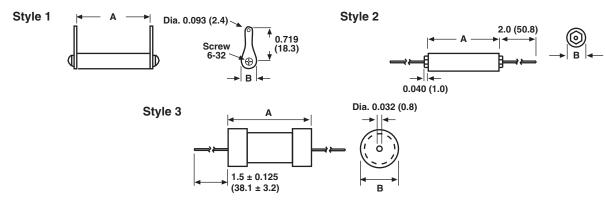


For additional information on packaging, refer to the Through Hole Resistor Packaging document (www.vishay.com/doc?31544).

All resistance values are calibrated at 100 V_{DC}-calibration at other voltages available on request. Contact factory for availability of values outside the listed range.



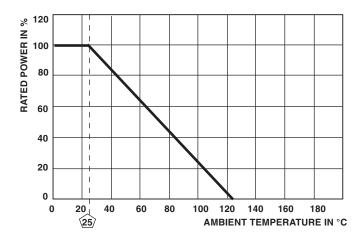
DIMENSIONS in inches (millimeters)

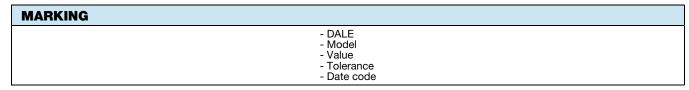


| GLOBAL MODEL | STYLE | A | В |
|--------------|-------|----------------------------|-----------------------------|
| BAEW | 2 | 0.75 (19.05) | 0.250 (6.35) |
| BAKW | 2 | 1.50 (38.10) | 0.250 (6.35) |
| BBF | 1 | 1.00 (25.40) | 0.313 (7.95) |
| BBFW | 2 | 1.00 (25.40) | 0.313 (7.95) |
| BBM | 1 | 1.75 (44.45) | 0.313 (7.95) |
| BBMW | 2 | 1.75 (44.45) | 0.313 (7.95) |
| BBR | 1 | 3.00 (76.20) | 0.313 (7.95) |
| BBRW | 2 | 3.00 (76.20) | 0.313 (7.95) |
| BBV | 1 | 5.50 (139.70) | 0.313 (7.95) |
| BFQ | 1 | 2.50 (63.50) | 0.563 (14.30) |
| BFT | 1 | 4.00 (101.60) | 0.563 (14.30) |
| BFW | 1 | 6.50 (165.10) | 0.563 (14.30) |
| TAFW | 3 | 1.05 ± 0.05 (26.70 ± 1.30) | 0.275 ± 0.020 (7.00 ± 0.50) |
| TAKW | 3 | 1.55 ± 0.05 (39.40 ± 1.30) | 0.275 ± 0.020 (7.00 ± 0.50) |

Note

DERATING





Models B axial leads are #20 AWG tinned copper. All other dimensional tolerances for styles 1 and 2, unless otherwise specified are ± 0.016"
 [0.406 mm] or ± 1 %, whichever is greater.



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