

Carbon Film Resistors, General Purpose, High Voltage



FEATURES

- Ratings to 10 W, 40 kV
- Available with either radial lugs or axial leads
- Epoxy/enamel coated, with additional Mylar® heat shrink sleeve 0.002" (0.051 mm) thick
- ± 20 % tolerance standard, tolerances of ± 15 %, ± 10 % and ± 5 % available
- See mod els D and G for special purpose high voltage carbon film resistors
- Material categorization: For definitions of COMPLIANT compliance please see www.vishay.com/doc?99912


RoHS*

Note

* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	POWER RATING $P_{25^\circ\text{C}}$ 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
TAEW	0.5	3K	1M to 500M	5, 10, 15, 20	3
TAFW	1	5K	1M to 500M	5, 10, 15, 20	3
TAKW	1.5	7.5K	1M to 500M	5, 10, 15, 20	3
TAOW	2	10K	1M to 500M	5, 10, 15, 20	3
TAQW	2.5	12.5K	1M to 500M	5, 10, 15, 20	3
TARW	3	15K	1M to 500M	5, 10, 15, 20	3

Notes

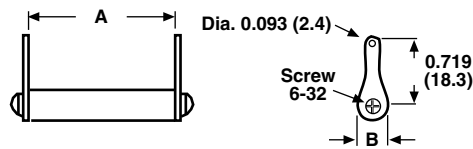
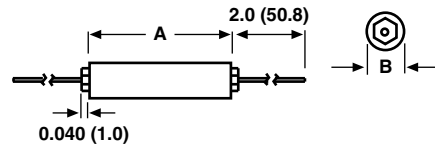
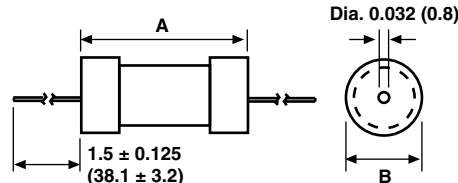
- (1) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.
- (2) All resistance values are calibrated at 100 V_{DC}-calibration at other voltages available on request. Contact factory for availability of values outside the listed range.
- (3) ± 20 % standard, ± 5 %, ± 10 %, and ± 15 % are available.

GLOBAL PART NUMBER INFORMATION				
New Global Part Numbering: BAEW2M50LF08 (preferred part numbering format)				
B	A	E	W	2
M	5	0	L	F
0	8			
GLOBAL MODEL (3 or 4 digits) (see Standard Electrical Specifications table)	RESISTANCE VALUE K = kΩ M = MΩ 50K0 = 50 kΩ 1M00 = 1 MΩ 500M = 500 MΩ	TOLERANCE CODE J = ± 5 % K = ± 10 % L = ± 15 % M = ± 20 %	PACKAGING E08 = Lead (Pb)-free, foam (B series) E22 = Lead (Pb)-free, bulk (T series) F08 = Tin/lead, foam (B series) B22 = Tin/lead, bulk (T series)	SPECIAL Blank = Standard (Dash Number) (up to 3 digits) From 1 to 999 as applicable
Historical Part Number example: BAEW 2M50 15 % (will continue to be accepted)				
BAEW	2M50	15 %	F08	
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING	

Note

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

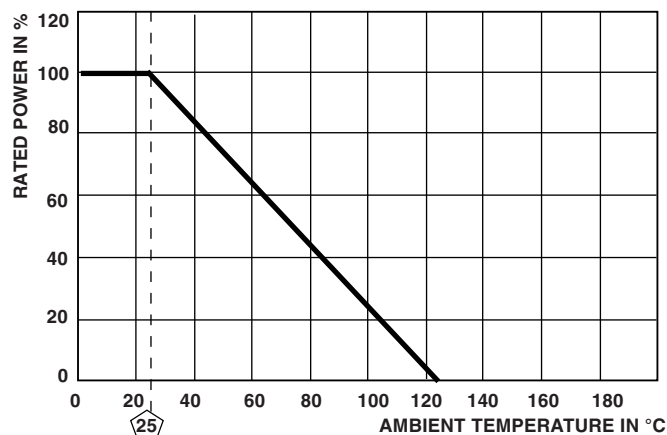
DIMENSIONS in inches (millimeters)

Style 1

Style 2

Style 3


GLOBAL MODEL	STYLE	A	B
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)
TAEW	3	0.80 ± 0.05 (20.30 ± 1.30)	0.275 ± 0.020 (7.00 ± 0.50)
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)
TAOW	3	2.05 ± 0.05 (52.10 ± 1.30)	0.275 ± 0.020 (7.00 ± 0.50)
TAQW	3	2.55 ± 0.05 (64.80 ± 1.30)	0.275 ± 0.020 (7.00 ± 0.50)
TARW	3	3.05 ± 0.05 (77.50 ± 1.30)	0.275 ± 0.020 (7.00 ± 0.50)

Note

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

DERATING

MARKING

- DALE
- Model
- Value
- Tolerance
- Date code



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Mouser Electronics

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