

Carbon Film Resistors, Special Purpose, High Voltage



FEATURES

- Ratings to 100 W, 125 kV
- Available with either radial bands or ferrule terminals
- Standard models epoxy/enamel coated, additional vinyl heat shrink sleeve available for added protection
- Model G is non-inductive
- $\pm 20\%$ tolerance standard, tolerances of $\pm 15\%$, $\pm 10\%$ and $\pm 5\%$ available
- See models B and T for general purpose high voltage carbon film resistors

STANDARD ELECTRICAL SPECIFICATIONS

| GLOBAL MODEL | HISTORICAL MODEL | POWER RATING $P_{70^\circ\text{C}}$ W | MAXIMUM WORKING VOLTAGE (1) V | RESISTANCE RANGE (2) Ω | TOLERANCE (3) $\pm \%$ | STYLE | |
|--------------|------------------|---|----------------------------------|----------------------------------|---------------------------|-------|---------------|
| DJU | DJU | 10 | 25K | 50K to 500M | 5, 10, 15, 20 | 3 | Non-Inductive |
| DPW | DPW | 20 | 35K | 100K to 500M | 5, 10, 15, 20 | 3 | |
| DPW..1 | DPW-1 | 20 | 35K | 100K to 500M | 5, 10, 15, 20 | 4 | |
| DPX | DPX | 30 | 65K | 100K to 500M | 5, 10, 15, 20 | 3 | |
| DPX..1 | DPX-1 | 30 | 65K | 100K to 500M | 5, 10, 15, 20 | 4 | |
| DVY | DVY | 60 | 90K | 400K to 500M | 5, 10, 15, 20 | 3 | |
| DVY..1 | DVY-1 | 60 | 90K | 400K to 500M | 5, 10, 15, 20 | 4 | |
| DZW | DZW | 35 | 40K | 300K to 500M | 5, 10, 15, 20 | 3 | |
| DZW..1 | DZW-1 | 35 | 40K | 300K to 500M | 5, 10, 15, 20 | 4 | |
| DZZ | DZZ | 100 | 125K | 700K to 500M | 5, 10, 15, 20 | 3 | |
| DZZ..1 | DZZ-1 | 100 | 125K | 700K to 500M | 5, 10, 15, 20 | 4 | |
| GJU | GJU | 10 | 16K | 1K to 1M | 5, 10, 15, 20 | 3 | |
| GPW | GPW | 20 | 18K | 1K to 1M | 5, 10, 15, 20 | 3 | |
| GPW..1 | GPW-1 | 20 | 18K | 1K to 1M | 5, 10, 15, 20 | 4 | |
| GPX | GPX | 30 | 25K | 1K to 1M | 5, 10, 15, 20 | 3 | |
| GPX..1 | GPX-1 | 30 | 25K | 1K to 1M | 5, 10, 15, 20 | 4 | |
| GVY | GVY | 60 | 30K | 1K to 5M | 5, 10, 15, 20 | 3 | |
| GVY..1 | GVY-1 | 60 | 30K | 1K to 5M | 5, 10, 15, 20 | 4 | |
| GZW | GZW | 35 | 20K | 1K to 1M | 5, 10, 15, 20 | 3 | |
| GZW..1 | GZW-1 | 35 | 20K | 1K to 1M | 5, 10, 15, 20 | 4 | |
| GZZ | GZZ | 100 | 32K | 1K to 10M | 5, 10, 15, 20 | 3 | |
| GZZ..1 | GZZ-1 | 100 | 32K | 1K to 10M | 5, 10, 15, 20 | 4 | |

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.
 (3) $\pm 20\%$ standard, $\pm 5\%$, $\pm 10\%$, and $\pm 15\%$ are available.

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: DPW2M50L B191

D **P** **W** **2** **M** **5** **0** **L** **B** **1** **9** **1**

| GLOBAL MODEL (See Standard Electrical Specifications table) | RESISTANCE VALUE R = Ω K = k Ω M = M Ω 100R = 100 Ω 13K0 = 13 k Ω 500M = 500 M Ω | TOLERANCE CODE J = $\pm 5\%$ K = $\pm 10\%$ L = $\pm 15\%$ M = $\pm 20\%$ | PACKAGING E19 = Lead (Pb)-free, Bulk (all, except DJU, GJU) E03 = Lead (Pb)-free, Skin (DJU, GJU only) B19 = Tin/Lead, Bulk (all, except DJU, GJU) J03 = Tin/Lead, Skin (DJU, GJU only) | SPECIAL Blank = Standard (Dash Number) (up to 3 digits) From 1 to 999 as applicable 1 = Ferrule Terminals |
|--|--|---|---|--|
|--|--|---|---|--|

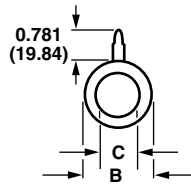
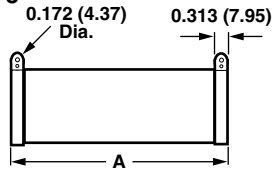
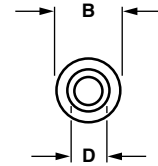
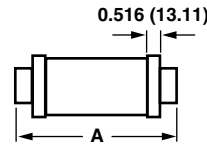
Historical Part Number example: DPW-12M50L (will continue to be accepted)

| | | | |
|------------------|------------------|----------------|------------|
| DPW-1 | 2M50 | L | B19 |
| HISTORICAL MODEL | RESISTANCE VALUE | TOLERANCE CODE | PACKAGING |

Note

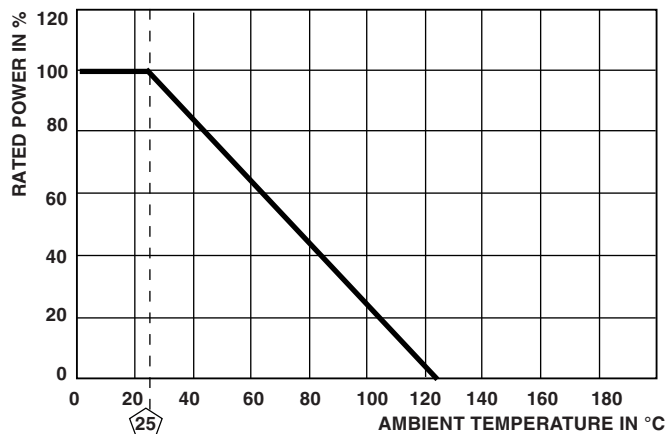
- For additional information on packaging, refer to the Through-Hole Resistor Packaging document (www.vishay.com/doc?31544).

DIMENSIONS in inches (millimeters)

Style 3

Style 4


| GLOBAL MODEL | STYLE | A | B ⁽¹⁾ | C | D |
|--------------|-------|----------------|------------------|--------------|---------------|
| DJU | 3 | 4.50 (114.30) | 0.750 (19.05) | 0.50 (12.70) | N/A |
| DPW | 3 | 6.50 (165.10) | 1.13 (28.70) | 0.75 (19.05) | N/A |
| DPW..1 | 4 | 7.69 (195.33) | 1.13 (28.70) | N/A | 0.812 (20.62) |
| DPX | 3 | 10.50 (266.70) | 1.13 (28.70) | 0.75 (19.05) | N/A |
| DPX..1 | 4 | 11.69 (296.93) | 1.13 (28.70) | N/A | 0.812 (20.62) |
| DVY | 3 | 14.50 (368.30) | 1.50 (38.10) | 1.13 (28.70) | N/A |
| DVY..1 | 4 | 15.69 (398.53) | 1.50 (38.10) | N/A | 1.14 (28.96) |
| DZW | 3 | 6.50 (165.10) | 2.0 (50.80) | 1.56 (39.62) | N/A |
| DZW..1 | 4 | 7.69 (195.33) | 2.0 (50.80) | N/A | 1.14 (28.96) |
| DZZ | 3 | 18.50 (469.90) | 2.0 (50.80) | 1.56 (39.62) | N/A |
| DZZ..1 | 4 | 19.69 (500.13) | 2.0 (50.80) | N/A | 1.14 (28.96) |
| GJU | 3 | 4.50 (114.30) | 0.750 (19.05) | 0.50 (12.70) | N/A |
| GPW | 3 | 6.50 (165.10) | 1.13 (28.70) | 0.75 (19.05) | N/A |
| GPW..1 | 4 | 7.69 (195.33) | 1.13 (28.70) | N/A | 0.812 (20.62) |
| GPX | 3 | 10.50 (266.70) | 1.13 (28.70) | 0.75 (19.05) | N/A |
| GPX..1 | 4 | 11.69 (296.93) | 1.13 (28.70) | N/A | 0.812 (20.62) |
| Gvy | 3 | 14.50 (368.30) | 1.50 (38.10) | 1.13 (28.70) | N/A |
| Gvy..1 | 4 | 15.69 (398.53) | 1.50 (38.10) | N/A | 1.14 (28.96) |
| GZW | 3 | 6.50 (165.10) | 2.0 (50.80) | 1.56 (39.62) | N/A |
| GZW..1 | 4 | 7.69 (195.33) | 2.0 (50.80) | N/A | 1.14 (28.96) |
| GZZ | 3 | 18.50 (469.90) | 2.0 (50.80) | 1.56 (39.62) | N/A |
| GZZ..1 | 4 | 19.69 (500.13) | 2.0 (50.80) | N/A | 1.14 (28.96) |

Note
⁽¹⁾ Dimensional tolerances 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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