

# 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) $\Omega$	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<sub>DC</sub>-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 B 1 9 1

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

GLOBAL MODEL (See Standard Electrical Specifications table)	RESISTANCE VALUE R = $\Omega$ K = k $\Omega$ M = M $\Omega$ 100R = 100 $\Omega$ 13K0 = 13 k $\Omega$ 500M = 500 M $\Omega$	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
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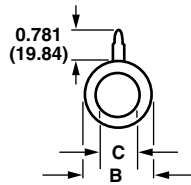
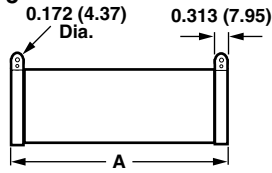
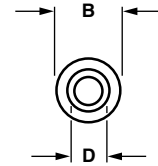
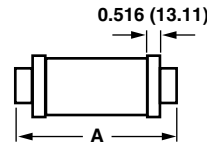
Historical Part Number example: DPW-12M50L (will continue to be accepted)

<b>DPW-1</b>	<b>2M50</b>	<b>L</b>	<b>B19</b>
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](http://www.vishay.com/doc?31544)).

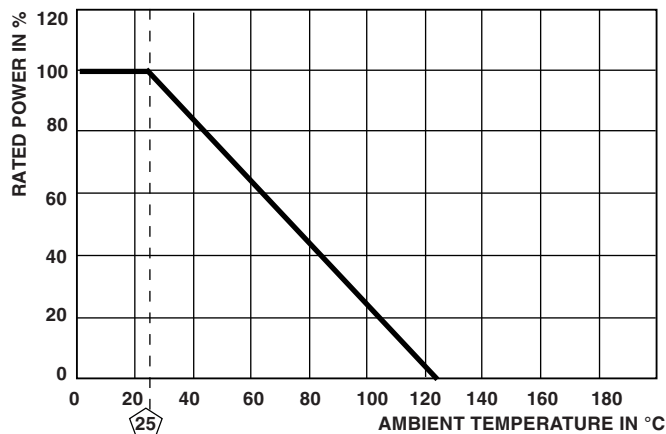
**DIMENSIONS** in inches (millimeters)

**Style 3**

**Style 4**


GLOBAL MODEL	STYLE	A	B <sup>(1)</sup>	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**

<sup>(1)</sup> 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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