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
- ± 20 % tolerance standard, tolerances of ± 15 %, ± 10 % and ± 5 % available
- See models B and T for general purpose high voltage carbon film resistors

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{70\,°C}$ W	MAXIMUM WORKING VOLTAGE (1) V	RESISTANCE RANGE (2) Ω	TOLERANCE (3) ± %	STYLE	
DJU	DJU	10	25K	50K to 500M	5, 10, 15, 20	3	
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	Non-Inductive
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) ± 20 % standard, ± 5 %, ± 10 %, and ± 15 % are available.

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: DPW2M50LB191 (preferred part numbering format)

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

GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING	SPECIAL
(See Standard Electrical Specifications table)	**R** = Ω **K** = kΩ **M** = MΩ **100R** = 100 Ω **13K0** = 13 kΩ **500M** = 500 MΩ	**J** = ± 5 % **K** = ± 10 % **L** = ± 15 % **M** = ± 20 %	**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)	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).

For technical questions, contact: ff2aresistors@vishay.com

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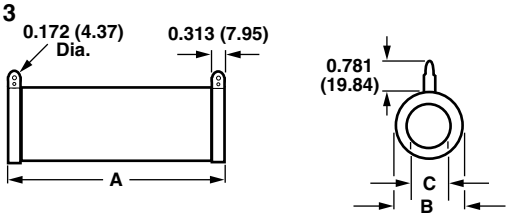
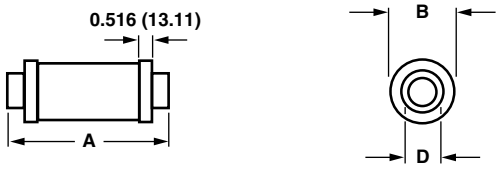
DIMENSIONS in inches (millimeters)

Style 3



Style 4

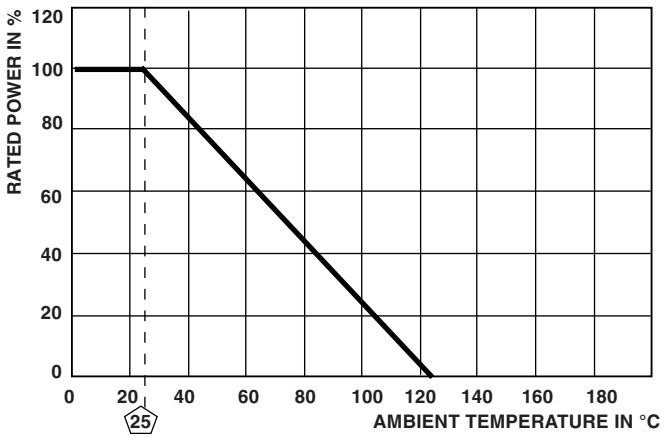


GLOBAL MODEL	STYLE	A	B (1)	C	D
DJU	3	4.50 (114.30)	0.750 (19.05)	0.50 (12.70)	N/A
DPW	3	6.50 (165.10)	1.13 (28.70)	0.75 (19.05)	N/A
DPW..1	4	7.69 (195.33)	1.13 (28.70)	N/A	0.812 (20.62)
DPX	3	10.50 (266.70)	1.13 (28.70)	0.75 (19.05)	N/A
DPX..1	4	11.69 (296.93)	1.13 (28.70)	N/A	0.812 (20.62)
DVY	3	14.50 (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 ± 0.016" (0.406 mm) or ± 1 %, whichever is greater.

DERATING



MARKING

- Dale
- Model
- Value
- Tolerance
- Date code

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