



Carbon Film (Metal Alloy) Resistors, Special Purpose, High Voltage



MATERIAL SPECIFICATIONS

Element: Metal alloy

Core: Alkaline earth porcelain

FEATURES

- HVW and MVW are uncoated; HVX (blue flameproof coating) available on request
- High voltage (up to 15 kV)
- Semi-precision: $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
- Axial leads: HVW, HVX = Tinned copper
MVW = Copper clad steel
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

RoHS*
COMPLIANT

Note

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

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{70^{\circ}\text{C}}$ W	MAXIMUM WORKING VOLTAGE ⁽²⁾ V	RESISTANCE RANGE ⁽²⁾ Ω	TOLERANCE $\pm\%$
HVW1/2	HVW-1/2	1.0	3.5K	1K to 25M	5, 10, 20
HVX1/2	HVX-1/2	1.0	3.5K	1K to 25M	5, 10, 20
MVW1/2	MVW-1/2	1.0	3.5K	1K to 25M	5, 10, 20
HVW3/4	HVW-3/4	1.5	7.5K	1K to 50M	5, 10, 20
HVX3/4	HVX-3/4	1.5	7.5K	1K to 50M	5, 10, 20
MVW3/4	MVW-3/4	1.5	7.5K	1K to 50M	5, 10, 20
HVW001	HVW-1	2.5	7.5K	1K to 75M	5, 10, 20
HVX001	HVX-1	2.5	7.5K	1K to 75M	5, 10, 20
HVW002	HVW-2	5.0	15.0K	1K to 200M	5, 10, 20
HVX002	HVX-2	5.0	15.0K	1K to 200M	5, 10, 20

Notes

- (1) All resistance values are calibrated at 100 V_{DC}. Calibration at other voltages upon request.
 (2) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: HVW00126K40KLB (preferred part numbering format)

H	V	W	0	0	1	2	6	K	4	0	K	L	B			
GLOBAL MODEL (See Standard Electrical Specifications table)			RESISTANCE VALUE K = kΩ M = MΩ 1K000 = 1.0 kΩ 47K00 = 47 kΩ 200M0 = 200 MΩ				TOLERANCE CODE J = ± 5 % K = ± 10 % M = ± 20 %			PACKAGING CODE ⁽³⁾⁽⁴⁾ EL = Lead (Pb)-free, lacer EK = Lead (Pb)-free, bulk EE = Lead (Pb)-free, reel LB = Tin/lead, lacer BJ = Tin/lead, bulk RC = Tin/lead, reel			SPECIAL Blank = Standard (Dash Number) (up to 3 digits) From 1 to 999 as applicable			

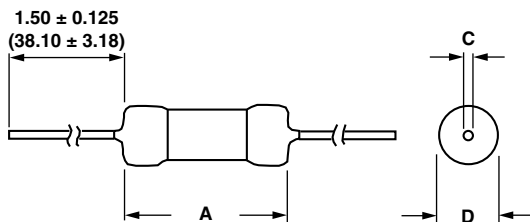
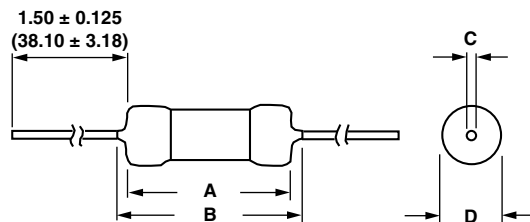
Historical Part Numbering: HVW-126.4K10 % (will continue to be accepted)

HVW-1	26.4 K	10 %	L05
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING

Notes

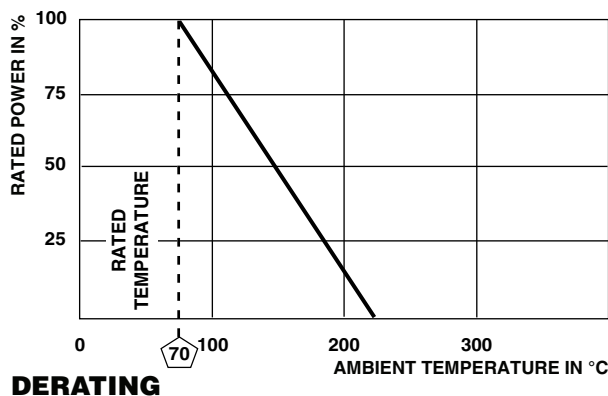
- (3) MVW products do not contain lead. Use tin/lead packaging codes to specify these lead free MVW products. Use lead (Pb)-free packaging codes to specify lead (Pb)-free HVW and HVX products.
 (4) Some packaging codes are model specific.
 • For additional information on packaging, refer to the Through-Hole Resistor Packaging document (www.vishay.com/doc?31544).

DIMENSIONS in inches (millimeters)

HVW/MVW
(Uncoated)

HVX
(Silicone coated)


DIMENSIONS HVW/MVW			
GLOBAL MODEL	A	C	D (Max.)
HVW1/2	0.545 ± 0.015 (13.84 ± 0.38)	0.032 ± 0.002 (0.81 ± 0.05)	0.155 (3.94)
MVW1/2	0.545 ± 0.015 (13.84 ± 0.38)	0.032 ± 0.002 (0.81 ± 0.05)	0.155 (3.94)
HVW3/4	0.895 ± 0.010 (22.73 ± 0.25)	0.032 ± 0.002 (0.81 ± 0.05)	0.155 (3.94)
MVW3/4	0.895 ± 0.010 (22.73 ± 0.25)	0.032 ± 0.002 (0.81 ± 0.05)	0.155 (3.94)
HVW001	0.920 ± 0.020 (23.37 ± 0.51)	0.032 ± 0.002 (0.81 ± 0.05)	0.275 (6.99)
HVW002	2.080 ± 0.030 (52.83 ± 0.76)	0.032 ± 0.002 (0.81 ± 0.05)	0.275 (6.99)

DIMENSIONS HVX				
GLOBAL MODEL	A (Max.)	B (Max.)	C	D (Max.)
HVX1/2	0.651 (16.54)	0.680 (17.27)	0.032 ± 0.002 (0.81 ± 0.05)	0.180 (4.57)
HVX3/4	0.988 (25.10)	1.062 (26.97)	0.032 ± 0.002 (0.81 ± 0.05)	0.180 (4.57)
HVX001	0.988 (25.10)	1.062 (26.97)	0.032 ± 0.002 (0.81 ± 0.05)	0.310 (7.87)
HVX002	2.150 (54.61)	2.200 (55.88)	0.032 ± 0.002 (0.81 ± 0.05)	0.310 (7.87)


Note

- For operation in oil or inert atmosphere derating, consult factory

PACKAGING			
GLOBAL MODEL	PACKAGING TYPE	PACKAGING CODE	
		LEAD (Pb)-BEARING	LEAD (Pb)-FREE
MVW1/2, MVW3/4	BULK	n/a	BJ
	TAPE/REEL	n/a	RC
	LACER	n/a	LB
HVW1/2, HVW3/4, HVX1/2, HVX3/4	BULK	BJ	EK
	TAPE/REEL	RC	EE
	LACER	LB	EL
HVW001, HVW002, HVX001, HVX002	LACER	LB	EL



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