

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
- Lead (Pb)-free version is RoHS compliant
- Compliant to RoHS directive 2002/95/EC



RoHS*
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

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

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: HVW00126K40KL B

H V W 0 0 1 2 6 K 4 0 K L B

GLOBAL MODEL (See Standard Electrical Specifications table)	RESISTANCE VALUE K = k Ω M = M Ω 1K000 = 1.0 k Ω 47K00 = 47 k Ω 200M0 = 200 M Ω	TOLERANCE CODE J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	PACKAGING CODE ⁽¹⁾⁽²⁾ 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
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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

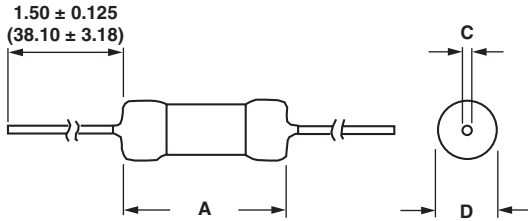
Notes

- ⁽¹⁾ 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.
⁽²⁾ Some packaging codes are model specific

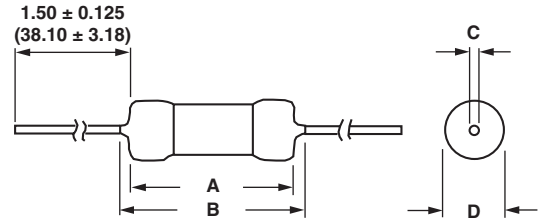
* Pb containing terminations are not RoHS compliant, exemptions may apply

DIMENSIONS in inches (millimeters)

HVW/MVW
(Uncoated)

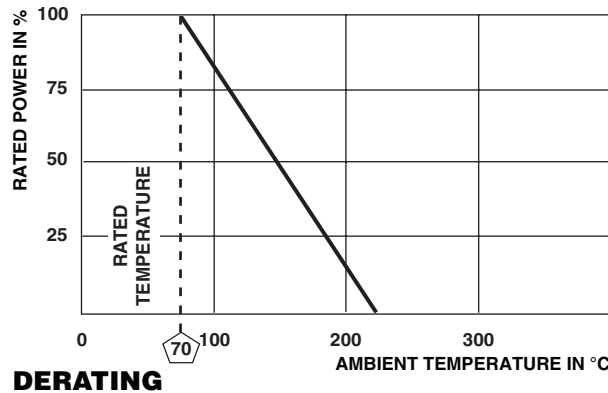


HVX
(Silicone coated)



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	Lacer	n/a	LB
	Tape/reel	n/a	RC
HVW1/2, HVW3/4, HVX1/2, HVX3/4	Lacer	LB	EL
	Tape/reel	RC	EE
HVW001, HVW002, HVX001, HVX002	Lacer	LB	EL



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Mouser Electronics

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