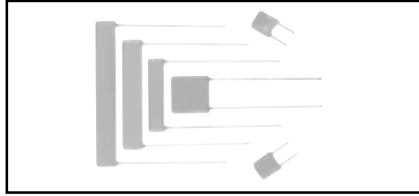


High Voltage Resistors



FEATURES

- Non-inductive design.
- Matched sets available.
- Ratio dividers available.
- Special testing available.
- Low T.C.: $\pm 200\text{PPM}/^\circ\text{C}$ standard, $\pm 100\text{PPM}/^\circ\text{C}$ and $\pm 50\text{PPM}/^\circ\text{C}$ available.
- Tolerance: $\pm 10\%$, $\pm 5\%$, $\pm 2\%$, $\pm 1\%$ Standard tolerance and/or T.C. matching available upon request.

MECHANICAL SPECIFICATIONS

Terminal Strength: 5 pound pull test.

Solderability: Continuous satisfactory coverage when tested in accordance with MIL-R-10509.

MATERIAL SPECIFICATIONS

Element: High temperature fired cermet film.

Core: High purity 96% alumina.

Coating: Conformal coat epoxy.

Termination: Standard lead material is solder coated copper. Solderable and weldable per MIL-STD-1276 Type C.

TEMPERATURE COEFFICIENT CODE

Code	Temperature Coefficient	Range
H	$\pm 50\text{PPM}$	- 55°C to + 125°C
K	$\pm 100\text{PPM}$	- 55°C to + 125°C
M	$\pm 200\text{PPM}$	- 55°C to + 125°C

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	WATTAGE RATING		MAXIMUM VOLTAGE (kV)	RESISTANCE RANGE (Ohms)*	
	@ + 70°C	@ + 125°C		$\pm 220\text{PPM}$	$\pm 100\text{PPM}$
FHV-025	.25	.125	.75	10K - 100M	10K - 100M
FHV-050	.50	.25	1.5	10K - 500M	10K - 100M
FHV-075	.25	.125	3.75	100 - 1G	500 - 500M
FHV-100	1.0	.50	7.5	100 - 2G	500 - 1G
FHV-150	1.5	.75	11.25	10K - 2G	1M - 1G
FHV-160	1.0	.50	3.5	100 - 2G	500 - 1G
FHV-200	2.0	1.0	15.0	200 - 8G	500M - 1G
FHV-400	2.0	1.0	7.5	20K - 2G	1M - 1G
FHV-500	4.0	2.0	15.0	30K - 10G	1M - 1G

*All resistance values are calibrated at 100 VDC. Calibration at other voltages upon request.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

Figure 1

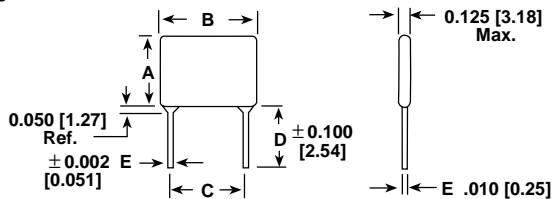
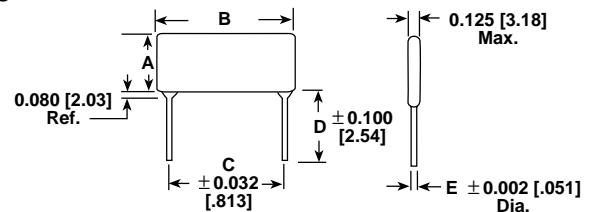


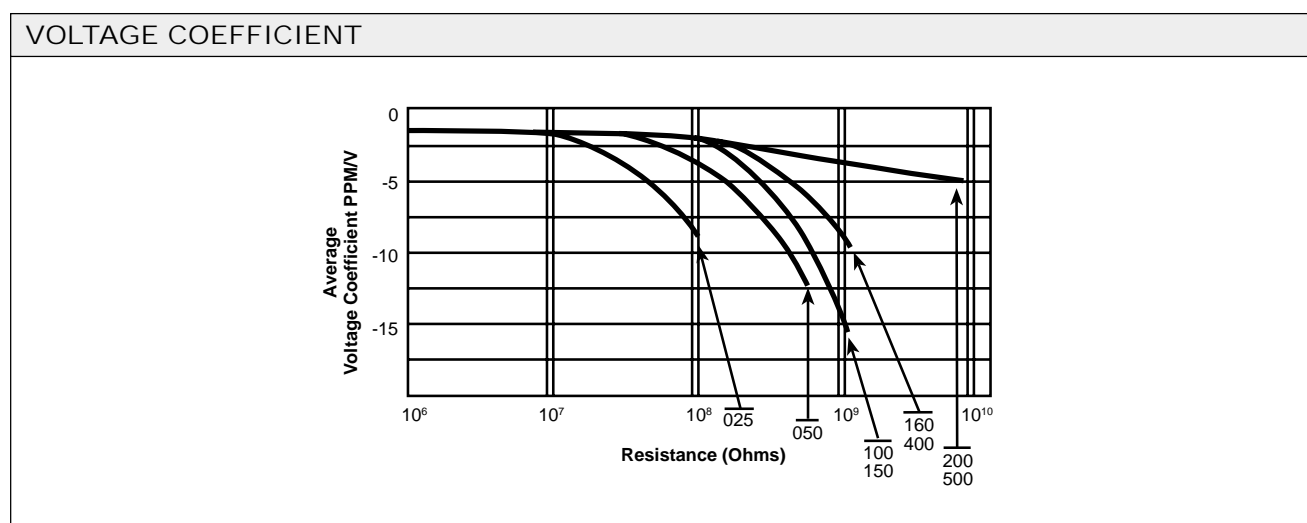
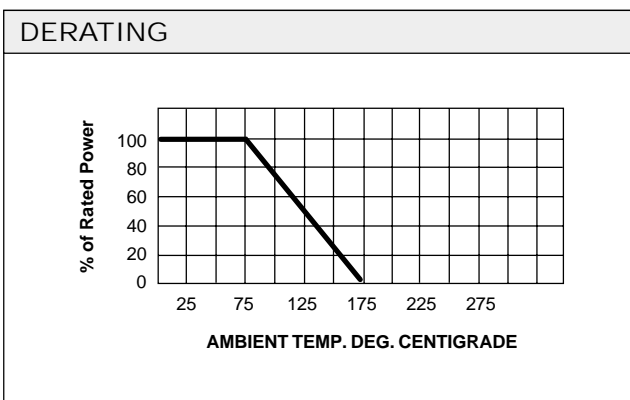
Figure 2



MODEL - SIZE	A (Max.)	B (Max.)	C	D	E	FIGURE
FHV-025	.300 [7.62]	.300 [7.62]	.200 [5.08]	.250 [6.35]	.018 [.457]	1
FHV-050	.380 [9.65]	.380 [9.65]	.200 [5.08]	.360 [9.14]	.020 [.508]	1
FHV-075	.210 [5.33]	.570 [14.48]	.400 [10.16]	1.50 [38.10]	.025 [.635]	2
FHV-100	.280 [7.11]	1.07 [21.18]	.900 [22.86]	1.50 [38.10]	.032 [.813]	2
FHV-150	.330 [8.38]	1.57 [39.88]	1.40 [35.56]	1.50 [38.10]	.032 [.813]	2
FHV-160	.550 [13.97]	.550 [13.97]	.400 [10.16]	1.50 [38.10]	.032 [.813]	2
FHV-200	.330 [8.38]	2.04 [51.82]	1.90 [48.26]	1.50 [38.10]	.032 [.813]	2
FHV-400	.550 [13.97]	1.05 [26.67]	.900 [22.86]	1.50 [38.10]	.032 [.813]	2
FHV-500	.550 [13.97]	2.07 [52.58]	1.90 [48.26]	1.50 [38.10]	.032 [.813]	2



ENVIRONMENTAL PERFORMANCE	
TEST	MAXIMUM ΔR (Typical Test Lots)
Short Time Overload	$< \pm 0.2\%$
Moisture Resistance	$< \pm 0.5\%$
Shock	$< \pm 0.2\%$
Vibration	$< \pm 0.2\%$
Temperature Cycling	$< \pm 0.5\%$
Load Life	$< \pm 1.0\%$
Dielectric Withstanding Voltage	$< \pm 0.15\%$
Resistance to Soldering Heat	$< \pm 0.1\%$



HOW TO ORDER

FHV	025	1001	F	M
MODEL	SIZE	VALUE	TOLERANCE	TEMPERATURE COEFFICIENT
			K = $\pm 10\%$ J = $\pm 5\%$ G = $\pm 2\%$ F = $\pm 1\%$	H = $\pm 50\text{PPM}/^\circ\text{C}$ K = $\pm 100\text{PPM}/^\circ\text{C}$ M = $\pm 200\text{PPM}/^\circ\text{C}$

NOTE: 1% tolerance not available above 1G.