

Thick Film Resistors, Through-Hole, High Voltage



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 tin plated copper

FEATURES

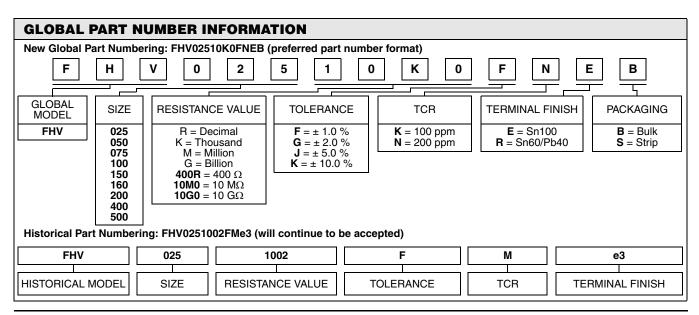
- Non-inductive design
- Matched sets available
- Ratio dividers available
- Special testing available
- Low TCR: \pm 200 ppm/°C standard, \pm 100 ppm/°C and \pm 50 ppm/°C available
- Tolerance: ± 10 %, ± 5 %, ± 2 %, ± 1 % standard tolerance and/or TCR matching available upon request

TEMPERATURE COEFFICIENT CODE				
CODE	TEMPERATURE COEFFICIENT	RANGE		
К	± 100 ppm	- 55 °C to + 125 °C		
N	± 200 ppm	- 55 °C to + 125 °C		

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	WATTAG	E RATING	MAXIMUM	RESISTANCE (Ω) ⁽¹⁾		
	at + 70 °C	at + 125 °C	VOLTAGE (kV)	± 200 ppm	± 100 ppm	
FHV025	0.25	0.125	0.75	10K to 100M	10K to 100M	
FHV050	0.50	0.25	1.5	10K to 500M	10K to 100M	
FHV075	0.25	0.125	3.75	100 to 1G	500 to 500M	
FHV100	1.0	0.50	7.5	100 to 2G	500 to 1G	
FHV150	1.5	0.75	11.25	10K to 2G	1M to 1G	
FHV160	1.0	0.50	3.5	100 to 2G	500 to 1G	
FHV200	2.0	1.0	15.0	200 to 8G	500M to 1G	
FHV400	2.0	1.0	7.5	20K to 2G	1M to 1G	
FHV500	4.0	2.0	15.0	30K to 10G	1M to 1G	

Note

⁽¹⁾ All resistance values are calibrated at 100 V_{DC}. Calibration at other voltages upon request.

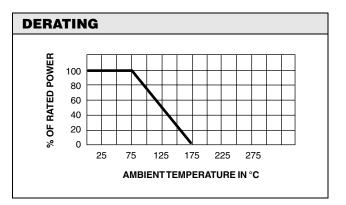


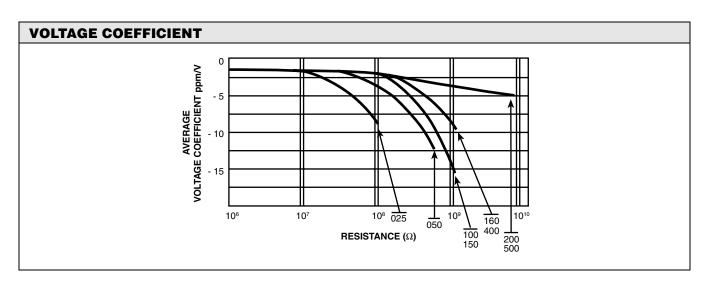
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DIMENSIONS in inches [millimeters]							
Figure 1 Figure 1 A U A V A V A V A V V A V V A V V A V V A D E D E O D E O D E O D E O O D E O O O O D E O O O O O O O O			Figure 2 0.080 [2.03] A B A				
MODEL - SIZE	A (max.)	B (max.)	()	D	E	FIGURE
FHV025	0.300 [7.62]	0.300 [7.62]	0.200	[5.08]	0.250 [6.35]	0.018 [0.457]	1
FHV050	0.380 [9.65]	0.380 [9.65]	0.200	[5.08]	0.360 [9.14]	0.020 [0.508]	1
FHV075	0.210 [5.33]	0.570 [14.48]	0.400	[10.16]	1.50 [38.10]	0.025 [0.635]	2
FHV100	0.280 [7.11]	1.07 [21.18]	0.900	[22.86]	1.50 [38.10]	0.032 [0.813]	2
FHV150	0.330 [8.38]	1.57 [39.88]	1.40 [35.56]	1.50 [38.10]	0.032 [0.813]	2
FHV160	0.550 [13.97]	0.550 [13.97]	0.400	[10.16]	1.50 [38.10]	0.032 [0.813]	2
FHV200	0.330 [8.38]	2.04 [51.82]	1.90 [4	48.26]	1.50 [38.10]	0.032 [0.813]	2
FHV400	0.550 [13.97]	1.05 [26.67]	0.900	[22.86]	1.50 [38.10]	0.032 [0.813]	2
FHV500	0.550 [13.97]	2.07 [52.58]	1.90 [4	48.26]	1.50 [38.10]	0.032 [0.813]	2

ENVIRONMENTAL PERFORMANCE			
TEST	MAXIMUM ∆ <i>R</i> (Typical Test Lots)		
Short time overload	< ± 0.2 %		
Moisture resistance	< ± 0.5 %		
Shock	< ± 0.2 %		
Vibration	< ± 0.2 %		
Temperature cycling	< ± 0.5 %		
Load life	< ± 1.0 %		
Dielectric withstanding voltage	< ± 0.15 %		
Resistance to soldering heat	< ± 0.1 %		







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