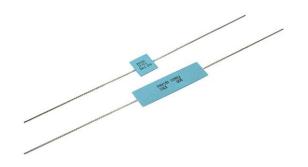




Thick Film Planar Resistors, Through-Hole, Axial Lead, High Voltage



MECHANICAL SPECIFICATIONS

Terminal Strength: 5 pound pull test

Solderability: continuous satisfactory coverage when

tested in accordance with MIL-R-10509

MATERIAL SPECIFICATIONS

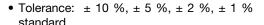
Resistive Element: high temperature fired cermet film

Core: high purity 96 % alumina **Coating:** flameproof silicone

Termination: standard lead material is tin plated copper

FEATURES

- Non-inductive design
- Matched sets available
- · Special testing available
- Low TCR: ± 200 ppm/°C standard, ± 100 ppm/°C available





- Tolerance and / or TCR matching available upon request
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

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

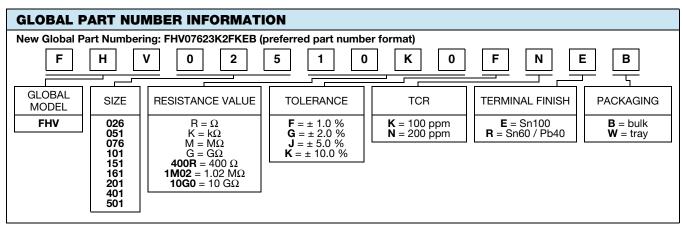
GLOBAL POWER RATING POWER RATING MAXIMUM WORKING RESISTANCE TEMPERATURE						
MODEL/ SIZE	POWER RATING P _{70 °C} W	POWER RATING P _{125 °C} W	VOLTAGE (1)	RESISTANCE RANGE ⁽²⁾ Ω	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C
FHV026	0.25	0.125	750	10K to 100M	1, 2, 5, 10	100, 200
FHV051	0.50	0.25	1.5K	10K to 100M	1, 2, 5, 10	100
	0.50			10K to 500M	1, 2, 5, 10	200
FHV076	0.25	0.125	3.75K	500 to 500M	1, 2, 5, 10	100
	0.25			100 to 1G	1, 2, 5, 10	200
FHV101		0.50	7.5K	500 to 1G	1, 2, 5, 10	100
	1			100 to 1G	1, 2, 5, 10	200
				1.1G to 2G	5, 10	200
FHV151		0.75	11.25K	1M to 1G	1, 2, 5, 10	100
	1.5			10K to 1G	1, 2, 5, 10	200
				1.1G to 2G	5, 10	200
FHV161	1	0.50	3.5K	500 to 1G	1, 2, 5, 10	100
				100 to 1G	1, 2, 5, 10	200
				1.1G to 2G	5, 10	200
FHV201	2	1	15K	500M to 1G	1, 2, 5, 10	100
				200 to 1G	1, 2, 5, 10	200
				1.1G to 8G	5, 10	200
FHV401	2	1	7.5K	1M to 1G	1, 2, 5, 10	100
				20K to 1G	1, 2, 5, 10	200
				1.1G to 2G	5, 10	200
FHV501	4	2	15K	1M to 1G	1, 2, 5, 10	100
				30K to 1G	1, 2, 5, 10	200
				1.1G to 10G	5, 10	200

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 upon request





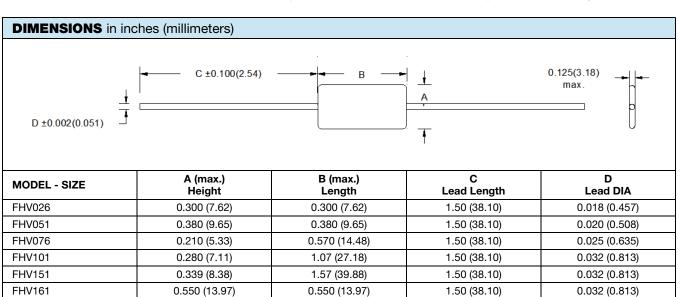
Notes

FHV201

FHV401

FHV501

- For additional information on packaging, refer to the Through Hole Resistor Packaging document (www.vishav.com/doc?31544)
- The TCR listed in this datasheet is for resistance values up to 1 GΩ. For resistance values > 1 GΩ, please contact factory



2.04 (51.82)

1.05 (26.67)

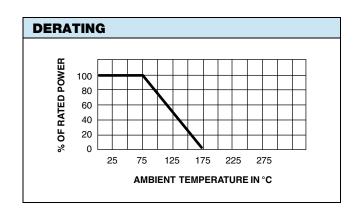
2.07 (52.58)

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 %			

0.330 (8.38)

0.550 (13.97)

0.550 (13.97)



0.032 (0.813)

0.032 (0.813)

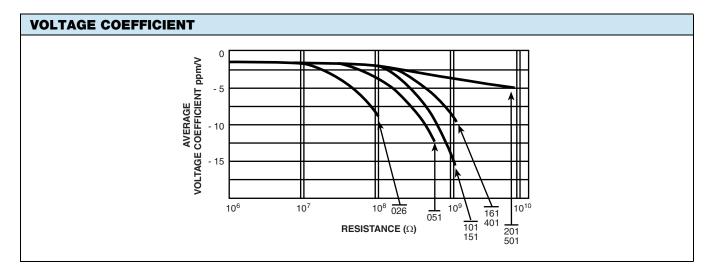
0.032 (0.813)

1.50 (38.10)

1.50 (38.10)

1.50 (38.10)

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