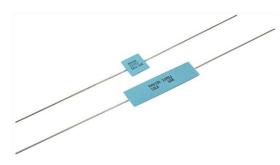
FHV Axial



Vishay Techno

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: ± 10 %, ± 5 %, ± 2 %, ± 1 % **FREE** standard
- Tolerance and/or TCR matching available upon request
- Material categorization: For definitions of compliance please see <u>www.vishav.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			
К	± 100 ppm/°C	- 55 °C to + 125 °C			
Ν	± 200 ppm/°C	- 55 °C to + 125 °C			

GLOBAL MODEL/ SIZE	POWER RATING P _{70 °C} W	POWER RATING P _{125 °C} W	MAXIMUM WORKING VOLTAGE ⁽¹⁾ V	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.

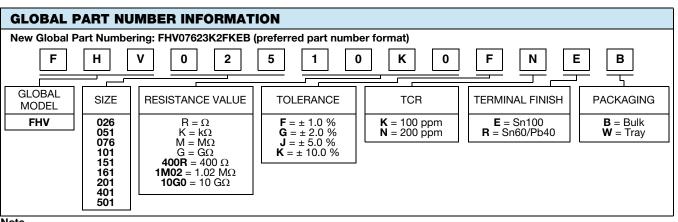
⁽²⁾ All resistance values are calibrated at 100 V_{DC} . Calibration at other voltages upon request.

Revision: 06-Jun-13

Document Number: 68039

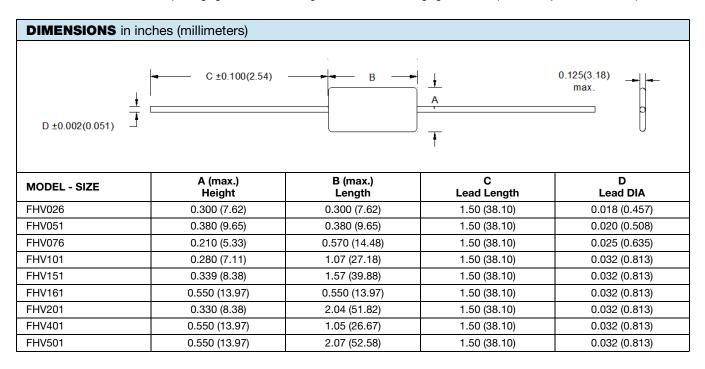


Vishay Techno



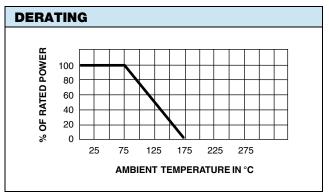
Note

For additional information on packaging, refer to the Through Hole Resistor Packaging document (<u>www.vishay.com/doc?31544</u>).



ENVIRONMENTAL PERFORMANCE				
TEST	MAXIMUM ∆R (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 %			

www.vishay.com



Revision: 06-Jun-13

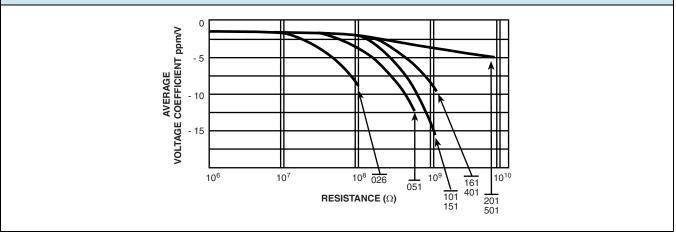
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000



FHV Axial

Vishay Techno

VOLTAGE COEFFICIENT





Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.