FHV Radial



Vishay Techno

Thick Film Planar Resistors, Through-Hole, **Radial 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

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, see Vishay Techno's TR, TD datasheet

• Low TCR: ± 200 ppm/°C standard, ± 100

Special testing available

ppm/°C available

- RoHS HALOGEN FREE
- Tolerance: ± 10 %, ± 5 %, ± 2 %, ± 1 % standard
- Tolerance and / or TCR matching available upon request
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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			

	POWER RATING		MAXIMUM WORKING	RESISTANCE		TEMPERATURE
GLOBAL MODEL / SIZE	P _{70 °C} W	P _{125 °C} W	VOLTAGE ⁽¹⁾ V	RANGE ⁽²⁾ Ω	TOLERANCE ± %	COEFFICIENT ± ppm/°C
FHV025	0.25	0.125	750	10K to 100M	1, 2, 5, 10	100, 200
FHV050	0.50	0.25	1.5K	10K to 100M	1, 2, 5, 10	100
				10K to 500M	1, 2, 5, 10	200
	0.25	0.125	3.75K	500 to 500M	1, 2, 5, 10	100
FHV075				100 to 1G	1, 2, 5, 10	200
	1	0.50		500 to 1G	1, 2, 5, 10	100
FHV100			7.5K	100 to 1G	1, 2, 5, 10	200
				1.1G to 2G	5, 10	200
				1M to 1G	1, 2, 5, 10	100
FHV150	1.5	0.75	11.25K	10K to 1G	1, 2, 5, 10	200
				1.1G to 2G	5, 10	200
	1	0.50	3.5K	500 to 1G	1, 2, 5, 10	100
FHV160				100 to 1G	1, 2, 5, 10	200
				1.1G to 2G	5, 10	200
				500M to 1G	1, 2, 5, 10	100
FHV200	2	1	15K	200 to 1G	1, 2, 5, 10	200
				1.1G to 8G	5, 10	200
FHV400	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
				1M to 1G	1, 2, 5, 10	100
FHV500	4	2	15K	30K to 1G	1, 2, 5, 10	200
				1.1G to 10G	5, 10	200

⁽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

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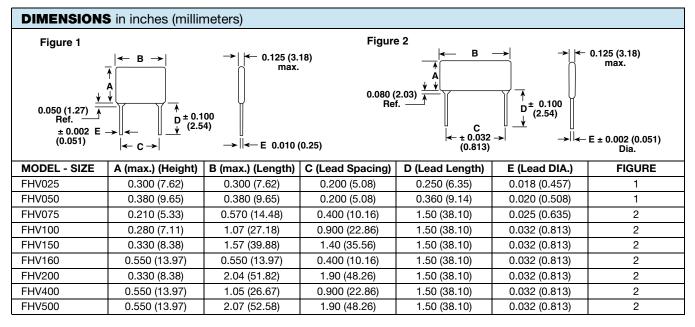


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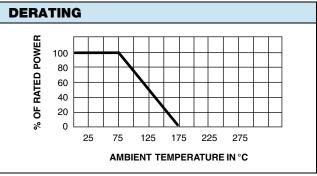
ew Global Part N	Number	ina: FHV02510	KOFNEB (preferred part nu	nber format)			
FH		V 0	2	5 1	0 K	0 F	N E B	
FHV	SIZE 025 050 075 100 150 160 200 400 500	RESISTANCI R = 0 K = k M = M G = 6 400R = 4 10M0 = 1 10G0 = 1	Ω Ω Ω Ω 00 Ω 00 Ω 0 ΜΩ	TOLERANCE $F = \pm 1.0 \%$ $G = \pm 2.0 \%$ $J = \pm 5.0 \%$ $K = \pm 10.0 \%$	ТСR К = 100 рр N = 200 рр		1100 B = ba	ag
istorical Part Nu FHV	mberin	g: FHV0251002		l continue to be a	ccepted) F	м	e3	
FNV		025		1002	г 			
	DEL	SIZE		ANCE VALUE	TOLERANCE	TCR	TERMINAL FINI	~

Notes

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



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 %			



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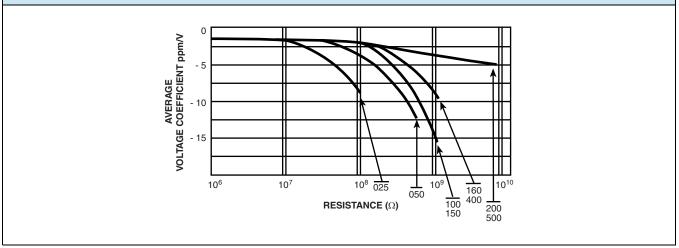
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VOLTAGE COEFFICIENT





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