

Excellent Integrated System Limited

Stocking Distributor

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[Huntington Electric, Inc./Vishay](#)

[FVOT1011E125R0JE](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



www.vishay.com

FVOT

Vishay Huntington

Wirewound Resistor, Industrial Power, Vitreous Coated, Miniature Flat



FEATURES

- High temperature vitreous coating
- Mounting accommodations ideally suited to high density packaging
- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- Self-stacking hardware for horizontal or vertical placement
- Mounting hardware functions as a heat sink allowing greater heat dissipation and less derating of stacked units
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25^\circ\text{C}}$ W	RESISTANCE RANGE Ω $\pm 5\%$	RESISTANCE RANGE Ω $\pm 10\%$	WEIGHT (typical) g
FVOT10 FVOT10-NI	FVOT-10 FVOT10-NI	10	1.0 to 15K 1.0 to 1.8K	0.10 to 15K 1.0 to 1.8K	0.41
FVOT15 FVOT15-NI	FVOT-15 FVOT15-NI	15	1.0 to 26K 1.0 to 3.6K	0.10 to 26K 1.0 to 3.6K	0.47
FVOT20 FVOT20-NI	FVOT-20 FVOT20-NI	20	1.0 to 71K 1.0 to 9.8K	0.10 to 71K 1.0 to 9.8K	0.74

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	FVOT RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/ $^\circ\text{C}$	± 260 for $20\ \Omega$ and above, ± 400 for $1\ \Omega$ to $20\ \Omega$, special TC's available
Short Time Overload	-	10 x rated power for 5 s
Dielectric Withstanding Voltage	V _{AC}	1000, from terminal to mounting hardware
Maximum Working Voltage	V	$(P \times R)^{1/2}$
Operating Temperature Range	$^\circ\text{C}$	-55 to +350

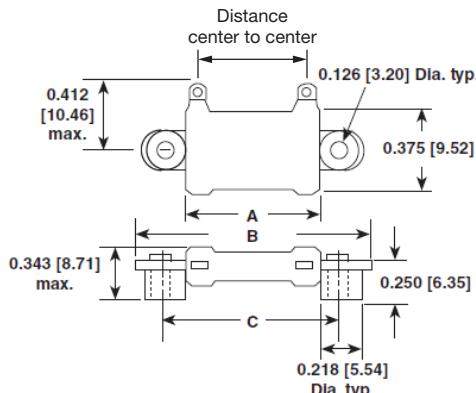
GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: FVOT2011E25R00JE (visit www.vishay.com SAP parts manual for all options)

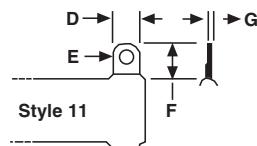
F	V	O	T	2	0	1	1	E	2	5	R	0	0	J	E		
GLOBAL MODEL (6 digits)			TERMINAL DESIGNATION (2 digits)			TERMINAL FINISH (1 digit)			VALUE (5 digits)			TOLERANCE (1 digit)			PACKAGING CODE (1 digit)		
(See Standard Electrical Specifications Global Model column for options)			11			E = Lead (Pb)-free			R = Decimal K = Thousand 1R500 = 1.5 Ω 1K500 = 1.5 k Ω			J = $\pm 5\%$ K = $\pm 10\%$			E = Lead (Pb)-free cell and bulk pack		
															(Dash number) From 1 to 99 as applicable NI = Non-inductive		

Historical Part Number example: FVOT-20-25-5 %

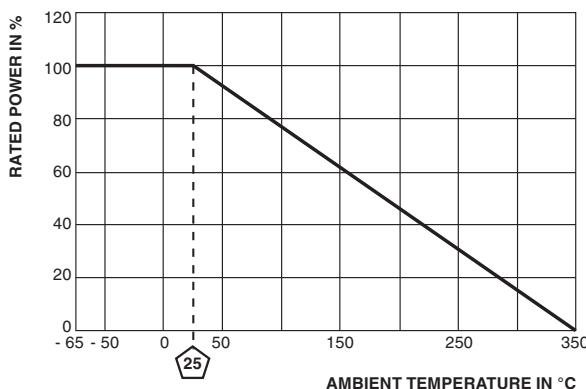
FVOT-20	25 Ω	5 %	
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE	SPECIAL

DIMENSIONS in inches [millimeters]


MODEL	DIMENSIONS in inches [millimeters]				
	A ± 0.063 [1.59]	B ± 0.063 [1.59]	C ± 0.031 [0.79]	DISTANCE CENTER TO CENTER (REF.)	STANDARD TERMINAL DESIGNATION
FVOT10	0.750 [19.05]	1.312 [33.32]	1.000 [25.40]	0.531 [13.49]	11
FVOT15	1.000 [25.40]	1.562 [39.18]	1.250 [31.75]	0.781 [19.84]	11
FVOT20	2.062 [52.37]	2.552 [64.83]	2.312 [58.72]	1.843 [46.81]	11

TERMINAL DIMENSIONS


DIMENSIONS	DIMENSIONS in inches [millimeters]	
	STYLE 11	
D	0.125 [3.18]	
E (HOLE DIAMETER)	0.081 [2.10]	
F	0.235 [5.97]	
G	0.020 [0.51]	

DERATING

MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy, depending on resistance value

Core: Ceramic, steatite or cordierite

Coating: Special high temperature vitreous

Standard Terminals: Tinned alloy 42

Terminal Bands: Alloy 42

Part Marking: HEI, model, wattage, value, tolerance, date code

NON-INDUCTIVE

Models of equivalent physical and electrical specifications are available with non-inductive (Ayrton-Perry) winding. They are identified by adding the letters "NI" to the end of the part number in the special section. For non-inductive models the maximum resistance values are lower, see Standard Electrical Specifications table.

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Vishay

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