

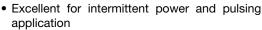
Vishay Huntington

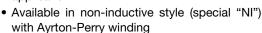
Wirewound Resistor, Industrial Power, Vitreous Coated, Tubular

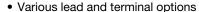


FEATURES

- · High temperature vitreous coating
- Complete welded construction







 Excellent stability in operation (< 3 % change resistance)

 Material categorization: for definitions of compliance please see www.vishav.com/doc?99912





ROHS COMPLIANT HALOGEN

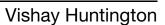
FREE GREEN

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °C} W	RESISTANCE RANGE Ω ± 5 %	RESISTANCE RANGE Ω ± 10 %	WEIGHT (typical) g			
FVTL05	FVTL-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60			
FVTS05	FVTS-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60			
FVWL05	FVWL-5	8	1.0 to 20.5K	0.1 to 20.5K	4.60			
FVTL10	FVTL-10	12	1.0 to 58K	0.10 to 58K	6.69			
FVTS10	FVTS-10	12	1.0 to 58K	0.10 to 58K	6.69			
FVWL10	FVWL-10	12	1.0 to 58K	0.10 to 58K	6.69			
FVTL20	FVTL-20	20	1.0 to 95K	0.10 to 95K	12.57			
FVTS20	FVTS-20	20	1.0 to 95K	0.10 to 95K	12.57			
FVWI 20	FVWI -20	20	1.0 to 95K	0.10 to 95K	12.57			

TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	FVT RESISTOR CHARACTERISTICS				
Temperature Coefficient	ppm/°C	\pm 260 for 20 Ω and above, \pm 400 for 1 Ω to 20 $\Omega,$ special TC's available please contact factory				
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 x R) ^{1/2}				
Operating Temperature Range	°C	-55 to +350				

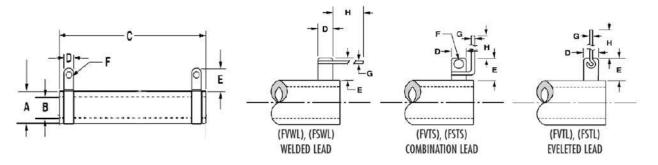
GLOBAL PART NUMBER INFORMATION									
Global Part Numbering example: FVTL05A1E25R00JE (visit www.vishay.net SAP parts manual for all options)									
F V T L 0 5 A 1 E 2 5 R 0 0 J E									
GLOBAL MODEL (6 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (5 digits)	TOLERANCE PACKAGIN (1 digit)			SPECIAL (up to 2 digits)		
(See Standard Electrical Specifications Global Model column for options)	A1 A2 R1 R2	E = Lead (Pb)-free	$\label{eq:R} \begin{split} \textbf{R} &= \text{Decimal} \\ \textbf{K} &= \text{Thousand} \\ \textbf{1R500} &= 1.5~\Omega \\ \textbf{1K500} &= 1.5~\text{k}\Omega \end{split}$	J = ± 5 %			(Dash number) From 1 to 99 as applicable NI = Non-inductive		
Historical Part Number example: FVTL-5-25-5 %									
FVTL-5		25 Ω		5 %					
HISTORICAL MODEL		RESISTANCE VALUE		TOLERANCE		SPECIAL			

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DIMENSIONS in inches [millimeters]



		DIMENSIONS in inches [millimeters]									
MODEL	CORE DIMENSIONS			TERMINAL				LEADS]	
	A ± 0.031 [± 0.78]	B ± 0.031 [± 0.78]	C ± 0.062 [± 1.57]	D ± 0.005 [± 0.12]	E ± 0.015 [± 0.38]	F ± 0.005 [± 0.12]	DESIGNATION	G ± 0.002 [± 0.05]	H ± 0.125 [± 3.18]	BRACKET TYPE	
FVTL05	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.188 [4.78]	0.406 [10.31]	0.132 [3.35]	R2	0.032 [0.813]	2.90 [73.66]	204	
FVTS05	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.188 [4.78]	0.406 [10.31]	0.132 [3.35]	R2	0.032 [0.813]	1.50 [38.10]	204	
FVWL05	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.125 [3.175]	0.188 [4.78]	-	A2	0.032 [0.813]	1.50 [38.10]	204	
FVTL10	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.188 [4.78]	0.406 [10.31]	0.132 [3.35]	R1	0.040 [1.02]	2.90 [73.66]	204	
FVTS10	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.188 [4.78]	0.406 [10.31]	0.132 [3.35]	R1	0.040 [1.02]	1.50 [38.10]	204	
FVWL10	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.125 [3.175]	0.188 [4.78]	-	A1	0.040 [1.02]	1.50 [38.10]	204	
FVTL20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.188 [4.78]	0.406 [10.32]	0.104 [2.64]	R1	0.040 [1.02]	1.65 [41.91]	203	
FVTS20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.188 [4.78]	0.406 [10.32]	0.104 [2.64]	R1	0.040 [1.02]	1.50 [38.10]	203	
FVWL20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.125 [3.175]	0.188 [4.78]	-	A1	0.040 [1.02]	1.50 [38.10]	203	

MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy,

depending on resistance value

Core: Ceramic, steatite

Coating: Special high temperature vitreous **Standard Terminals:** Tinned alloy 42

Terminal Bands: Alloy 42

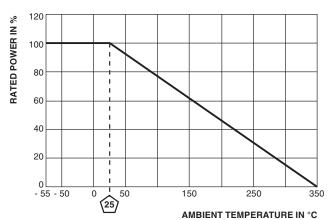
Part Marking: HEI, model, wattage, value, tolerance, date

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.

DERATING





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Vishay

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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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