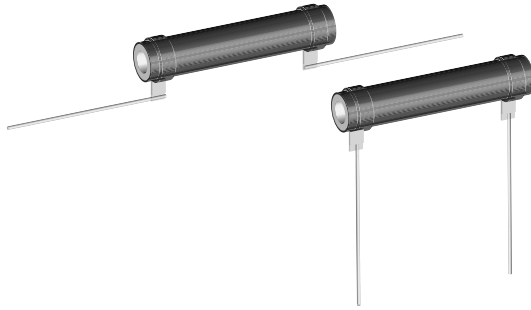


Wirewound Resistor, Industrial Power, Silicone Coated, Tubular


FEATURES

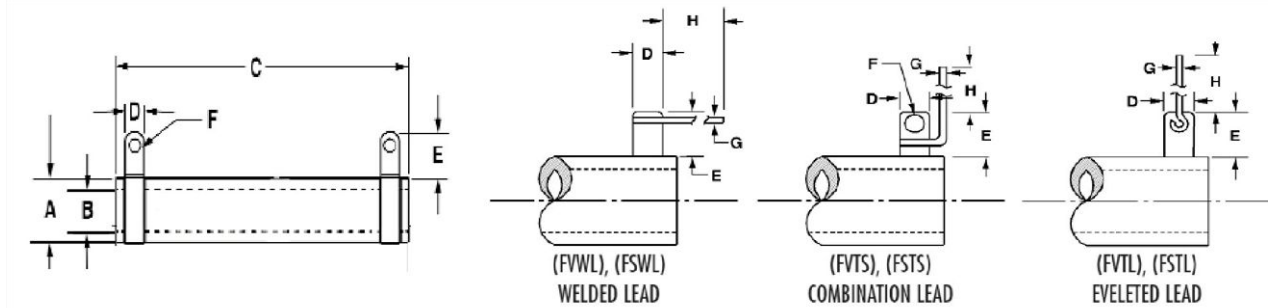
- High temperature silicone coating
- Complete welded construction
- Excellent for intermittent power and pulsing application
- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- Various lead and terminal options
- Excellent stability in operation (< 3 % change resistance)
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



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
FSTL05	FSTL-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60
FSTS05	FSTS-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60
FSWL05	FSWL-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60
FSTL10	FSTL-10	12	1.0 to 58K	0.10 to 58K	6.69
FSTS10	FSTS-10	12	1.0 to 58K	0.10 to 58K	6.69
FSWL10	FSWL-10	12	1.0 to 58K	0.10 to 58K	6.69
FSTL20	FSTL-20	20	1.0 to 95K	0.10 to 95K	12.57
FSTS20	FSTS-20	20	1.0 to 95K	0.10 to 95K	12.57
FSWL20	FSWL-20	20	1.0 to 95K	0.10 to 95K	12.57

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	FST RESISTOR CHARACTERISTICS	
Temperature Coefficient	ppm/°C	± 260 for 20 Ω and above, ± 400 for 1 Ω to 20 Ω , 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	$(P \times R)^{1/2}$	
Operating Temperature Range	°C	- 55 to + 350	

GLOBAL PART NUMBER INFORMATION																	
Global Part Numbering example: FSTL05A1E25R00JE (visit www.vishay.net SAP parts manual for all options)																	
F	S	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 (1 digit)	PACKAGING CODE (1 digit)	SPECIAL (up to 2 digits)											
(See Standard Electrical Specifications Global Model column for options)	A1 A2 R1 R2	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 skin pack	(Dash number) From 1 to 99 as applicable NI = Non-inductive											
Historical Part Number example: FSTL-5-25-5 %																	
FSTL-5		25 Ω			5 %												
HISTORICAL MODEL		RESISTANCE VALUE			TOLERANCE		SPECIAL										

DIMENSIONS in inches [millimeters]


MODEL	DIMENSIONS in inches [millimeters]									
	CORE DIMENSIONS			TERMINAL				LEADS		BRACKET TYPE
	A	B	C	D	E	F	DESIGNATION	G	H	
FSTL05	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.188 [4.78]	0.438 [11.11]	-	R2	0.032 [0.813]	2.00 [50.80]	209
FSTS05	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.188 [4.78]	0.438 [11.11]	0.104 [2.64]	R2	0.032 [0.813]	2.00 [50.80]	209
FSWL05	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.125 [3.175]	0.250 [6.35]	-	A2	0.032 [0.813]	2.00 [50.80]	209
FSTL10	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.188 [4.78]	0.438 [11.11]	-	R1	0.040 [1.02]	2.00 [50.80]	209
FSTS10	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.188 [4.78]	0.438 [11.11]	0.104 [2.64]	R1	0.040 [1.02]	2.00 [50.80]	209
FSWL10	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.125 [3.175]	0.250 [6.35]	-	A1	0.040 [1.02]	2.00 [50.80]	209
FSTL20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.188 [4.78]	0.406 [10.32]	-	R1	0.040 [1.02]	2.00 [50.80]	203
FSTS20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.188 [4.78]	0.406 [10.32]	0.063 [1.59]	R1	0.040 [1.02]	2.00 [50.80]	203
FSWL20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.125 [3.175]	0.250 [6.35]	-	A1	0.040 [1.02]	2.00 [50.80]	203

MATERIAL SPECIFICATIONS

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

Core: Ceramic, steatite

Coating: Special high temperature silicone

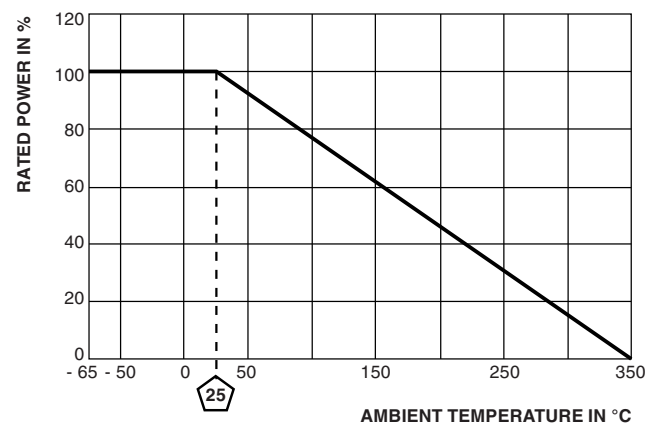
Standard Terminals: Tinned alloy 42

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 (Ayrtton-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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