

Vishay Huntington

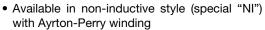
# Wirewound Resistor, Industrial Power, Silicone Coated, Tubular

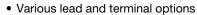


#### **FEATURES**

- High temperature silicone coating
- Complete welded construction







 Excellent stability in operation (< 3 % change resistance)

ROHS
COMPLIANT
HALOGEN
FREE
GREEN

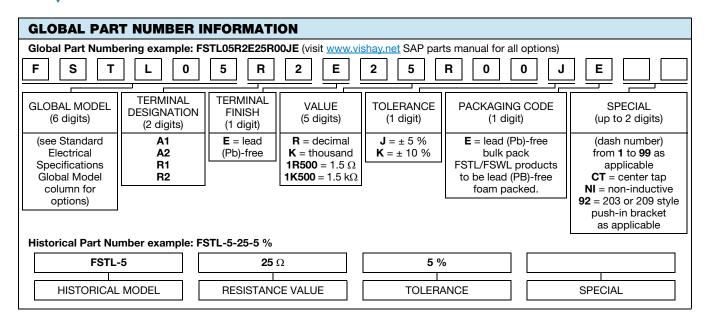
 Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

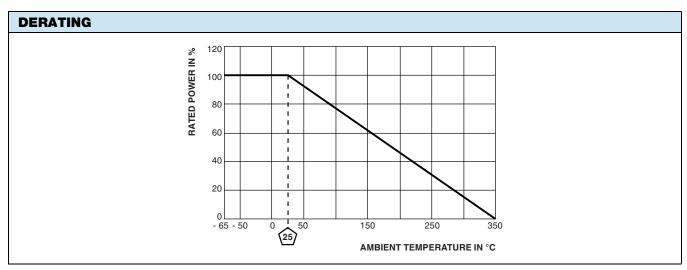
STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING  P <sub>25°C</sub> W	RESISTANCE RANGE Ω ± 5 %	RESISTANCE RANGE Ω ± 10 %	WEIGHT (typical) g			
FSTL05	FSTL-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60			
FSTS05	FSTS-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60			
FSWL5A	HLW-05	5.25	1.0 to 15K	0.10 to 15K	2.12			
FSTL5A	HLW-05	5.25	1.0 to 15K	0.10 to 15K	2.12			
FSWL05	FSWL-5	8	1.0 to 20.5K	0.1 to 20.5K	4.60			
FSWL08	HLW-06	8	1.0 to 20.5K	0.10 to 20.5K	4.60			
FSTL08	HLW-06	8	1.0 to 20.5K	0.10 to 20.5K	4.60			
FSWL1A	HLW-10	10	1.0 to 29K	0.10 to 29K	6.24			
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			
FSWL12	HLW-12	12	1.0 to 58K	0.10 to 58K	6.69			
FSTL12	HLW-12	12	1.0 to 58K	0.10 to 58K	6.69			
FSWL15	HLW-15	15	1.0 to 60K	0.10 to 60K	8.82			
FSTL15	HLW-15	15	1.0 to 60K	0.10 to 60K	8.82			
FSWL2A	HLW-20	20	1.0 to 95K	0.10 to 95K	11.36			
FSTL2A	HLW-20	20	1.0 to 95K	0.10 to 95K	11.36			
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	$\pm$ 260 for 20 $\Omega$ and above, $\pm$ 400 for 1 $\Omega$ to 20 $\Omega,$ special TC's available please contact factory				
Short Time Overload	-	10 x rated power for 5 s				
Dielectric Withstanding Voltage	V <sub>AC</sub>	1000, from terminal to mounting hardware				
Maximum Working Voltage	V	$(P \times R)^{1/2}$				
Operating Temperature Range	°C	-55 to +350				

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#### **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

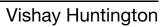
Terminal Bands: alloy 42

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

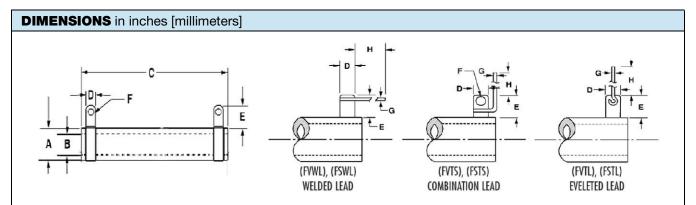
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#### **NON-INDUCTIVE**

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.







	CORE DIMENSIONS (REF.)			TERMINAL			LEADS			
MODEL	Α	В	С	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
FSTL05	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]	209
FSTS05	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]	209
FSWL5A	0.250 [6.35]	0.125 [3.18]	0.625 [15.88]	0.063 [1.59]	0.188 [4.76] typ.	n/a	A2	0.032 [0.813]	1.50 [38.10]	
FSTL5A	0.250 [6.35]	0.125 [3.18]	0.625 [15.88]	0.063 [1.59]	0.188 [4.76] typ.	n/a	R2	0.032 [0.813]	1.50 [38.10]	
FSWL05	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.125 [3.175]	0.188 [4.78]	n/a	A2	0.032 [0.813]	1.50 [38.10]	209
FSWL08	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.125 [3.18]	0.188 [4.76] typ.	n/a	A1	0.040 [1.02]	1.50 [38.10]	
FSTL08	0.313 [7.94]	0.188 [4.76]	1.000 [25.40]	0.125 [3.18]	0.188 [4.76] typ.	n/a	R1	0.040 [1.02]	1.50 [38.10]	
FSWL1A	0.438 [11.11]	0.313 [7.94]	1.000 [25.40]	0.125 [3.18]	0.188 [4.76] typ.	n/a	A1	0.040 [1.02]	1.50 [38.10]	
FSTL10	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]	209
FSTS10	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]	209
FSWL10	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.125 [3.175]	0.188 [4.78]	n/a	A1	0.040 [1.02]	1.50 [38.10]	209
FSWL12	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.125 [3.18]	0.188 [4.76] typ.	n/a	A1	0.040 [1.02]	1.50 [38.10]	
FSTL12	0.313 [7.94]	0.188 [4.76]	1.750 [44.45]	0.125 [3.18]	0.188 [4.76] typ.	n/a	R1	0.040 [1.02]	1.50 [38.10]	
FSWL15	0.438 [11.11]	0.313 [7.94]	1.500 [38.10]	0.125 [3.18]	0.188 [4.76] typ.	n/a	A1	0.040 [1.02]	1.50 [38.10]	
FSTL15	0.438 [11.11]	0.313 [7.94]	1.500 [38.10]	0.125 [3.18]	0.188 [4.76] typ.	n/a	R1	0.040 [1.02]	1.50 [38.10]	
FSWL2A	0.438 [11.11]	0.313 [7.94]	2.000 [50.80]	0.125 [3.18]	0.188 [4.76] typ.	n/a	A1	0.040 [1.02]	1.50 [38.10]	
FSTL2A	0.438 [11.11]	0.313 [7.94]	2.000 [50.80]	0.125 [3.18]	0.188 [4.76] typ.	n/a	R1	0.040 [1.02]	1.50 [38.10]	
FSTL20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.188 [4.78]	0.406 [10.32]	0.133 [3.37]	R1	0.040 [1.02]	1.65 [41.91]	203
FSTS20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.188 [4.78]	0.406 [10.32]	0.133 [3.37]	R1	0.040 [1.02]	1.50 [38.10]	203
FSWL20	0.438 [11.11]	0.260 [6.604]	2.000 [50.8]	0.125 [3.175]	0.188 [4.78]	n/a	A1	0.040 [1.02]	1.50 [38.10]	203

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