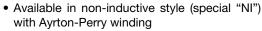


# Wirewound Resistor, Industrial Power, Silicone Coated, Standard Oval



#### **FEATURES**

- High temperature silicone coating
- Mounting accommodations ideally suited to high density packaging





RoHS

- 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 <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

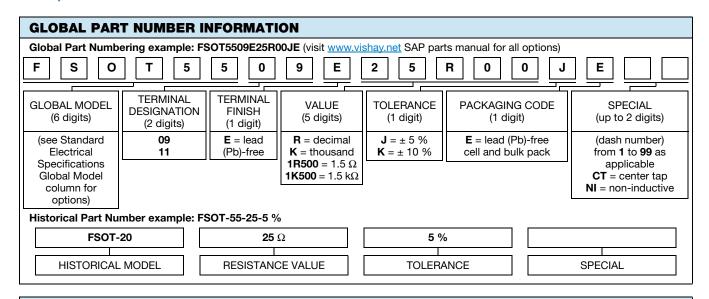
STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P25°C W	RESISTANCE RANGE Ω ± 5 %	RESISTANCE RANGE Ω ± 10 %	WEIGHT (typical) g
FSOT10 FSOT10-NI	FSOT-10 FSOT-10-NI	10	1.0 to 15K 1.0 to 1.8K	0.10 to 15K 1.0 to 1.8K	0.41
FSOT15 FSOT15-NI	FSOT-15 FSOT-15-NI	15	1.0 to 26K 1.0 to 3.6K	0.10 to 26K 1.0 to 3.6K	0.47
FSOT20 FSOT20-NI	FSOT-20 FSOT-20-NI	20	1.0 to 71K 1.0 to 9.8K	0.10 to 71K 1.0 to 9.8K	0.74
FSOT30 FSOT30-NI	FSOT-30 FSOT-30-NI	30	1.0 to 11K 1.0 to 1.2K	0.10 to 11K 1.0 to 1.2K	20.14
FSOT40 FSOT40-NI	FSOT-40 FSOT-40-NI	40	1.0 to 26K 1.0 to 3K	0.10 to 26K 1.0 to 3K	30.07
FSOT55 FSOT55-NI	FSOT-55 FSOT-55-NI	55	1.0 to 54K 1.0 to 6.8K	0.10 to 54K 1.0 to 6.8K	51.25
FSOT65 / FSOT70 <sup>(1)</sup> FSOT65-NI / FSOT70-NI <sup>(1)</sup>	FSOT-65 FSOT-65-NI	70	1.0 to 77K 1.0 to 9.4K	0.10 to 77K 1.0 to 9.4K	60.48
FSOT75 / FSOT95 <sup>(1)</sup> FSOT75-NI / FSOT95-NI <sup>(1)</sup>	FSOT-75 FSOT-75-NI	95	1.0 to 99.9K 1.0 to 12.4K	0.10 to 99.9K 1.0 to 12.4K	76.51

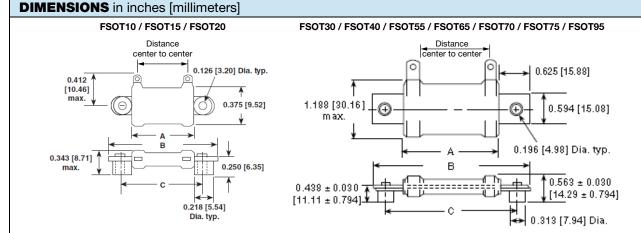
#### Note

<sup>(1)</sup> The preferred models are the FSOT70 and FSOT95. FSOT65 and FSOT75 are being shown as they have historically been used for these two wattages

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	FSOT 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		
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 x R) <sup>1/2</sup>		
Operating Temperature Range	°C	-55 to +350		

# Vishay Huntington





		В	C ± 0.031 [0.79]	DISTANCE CENTER TO CENTER (REF.)	TERMINAL DESIGNATION	
MODEL		± 0.063 [1.59]			STANDARD	OPTIONAL (QUICK CONNECT)
FSOT10	0.750 [19.05]	1.312 [33.32]	1.000 [25.40]	0.531 [13.49]	11	
FSOT15	1.000 [25.40]	1.562 [39.67]	1.250 [31.75]	0.781 [19.84]	11	
FSOT20	2.062 [52.37]	2.625 [66.68]	2.312 [58.72]	1.843 [46.81]	11	For Quick Connect terminal
FSOT30	1.250 [31.75]	2.500 [63.50]	2.000 [50.8]	0.906 [23.01]	09	
FSOT40	2.000 [50.8]	3.250 [82.55]	2.750 [69.85]	1.656 [42.06]	09	option, use FSOTXX16/17 (www.vishay.com/doc?30337)
FSOT55	3.500 [88.90]	4.750 [120.65]	4.250 [107.95]	3.156 [80.16]	09	
FSOT65 / FSOT70 (1)	4.750 [120.65]	6.000 [152.4]	5.500 [139.7]	4.406 [111.91]	09	
FSOT75 / FSOT95 <sup>(1)</sup>	6.000 [152.4]	7.250 [184.15]	6.750 [171.45]	5.656 [143.66]	09	

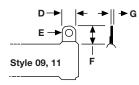
#### Note

<sup>(1)</sup> The preferred models are the FSOT70 and FSOT95. FSOT65 and FSOT75 are being shown as they have historically been used for these two wattages



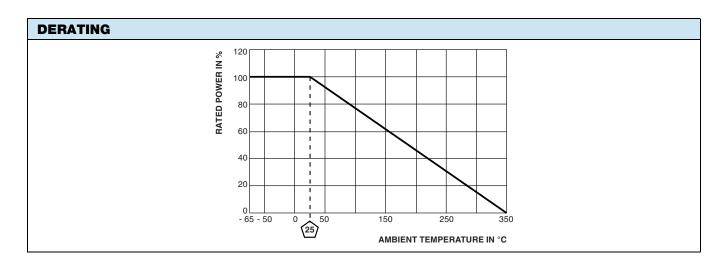
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#### **TERMINAL DIMENSIONS**



For Quick Connect terminal option, use FSOTXX...16/17 (www.vishay.com/doc?30337)

DIMENSIONS	STYLE 09	STYLE 11
D	0.188 [4.76]	0.125 [3.18]
E (HOLE DIAMETER)	0.106 [2.69]	0.081 [2.10]
F	0.438 [11.13]	0.235 [5.97]
G	0.020 [0.51]	0.020 [0.51]



#### **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 (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.



## **Legal Disclaimer Notice**

Vishay

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