

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


**FEATURES**

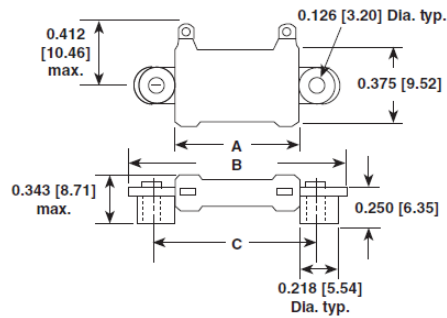
- High temperature silicone coating
- Mounting accommodations ideally suited to high density packaging
- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- Self-stacking hardware for horizontal or vertical placement
- Mounting hardware functions as a heat sink allowing greater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


**RoHS**  
COMPLIANT

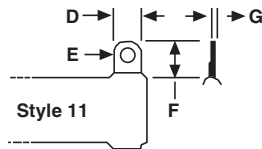
STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE $\Omega$ $\pm 5\%$	RESISTANCE RANGE $\Omega$ $\pm 10\%$	WEIGHT (typical) g
FSOT10 FSOT10-NI	FSOT-10 FSOT-10-NI	10	1.0 to 15K 1.0 to 1.8K	0.10 to 15K 1.0 to 1.8K	0.41
FSOT15 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

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	FSOT RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/ $^\circ\text{C}$	$\pm 260$ 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	$V_{AC}$	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: <b>FSOT2011E25R00JE</b> (visit <a href="http://www.vishay.net">www.vishay.net</a> SAP parts manual for all options)						
F	S	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)	SPECIAL (up to 2 digits)
(See Standard Electrical Specifications Global Model column for options)	11	E = Lead (Pb)-free	R = Decimal K = Thousand 1R500 = 1.5 $\Omega$ 1K500 = 1.5 k $\Omega$	J = $\pm 5\%$ K = $\pm 10\%$	E = E01 = Lead (Pb)-free skin pack	(Dash number) From 1 to 99 as applicable NI = Non-inductive
Historical Part Number example: <b>FSOT-20-25-5 %</b>						
FSOT-20	25 $\Omega$	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 BETWEEN TERMINALS (REF.)	STANDARD TERMINAL DESIGNATION
FSOT10	0.750 [19.05]	1.312 [33.32]	1.000 [25.40]	0.376 [9.55]	11
FSOT15	1.000 [25.40]	1.562 [39.67]	1.250 [31.75]	0.876 [22.25]	11
FSOT20	2.000 [50.80]	2.552 [64.83]	2.3125 [7.94]	1.626 [41.30]	11

**TERMINAL DIMENSIONS**


DIMENSIONS	DIMENSIONS in inches [millimeters]	
	STYLE 11	
D	0.125 [3.18]	
E (HOLE DIAMETER)	0.062 [1.57]	
F	0.110 [2.79]	
G	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

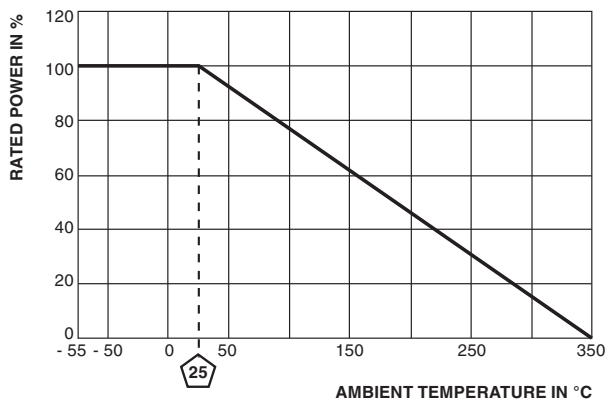
**Standard Terminals:** Tinned alloy 42

**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.

**DERATING**




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