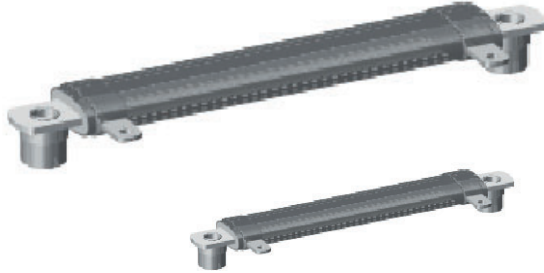


## Wirewound Resistor, Industrial Power, Silicone Coated, Standard Oval


**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 $P_{25^{\circ}\text{C}}$ 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
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	$V_{AC}$	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**

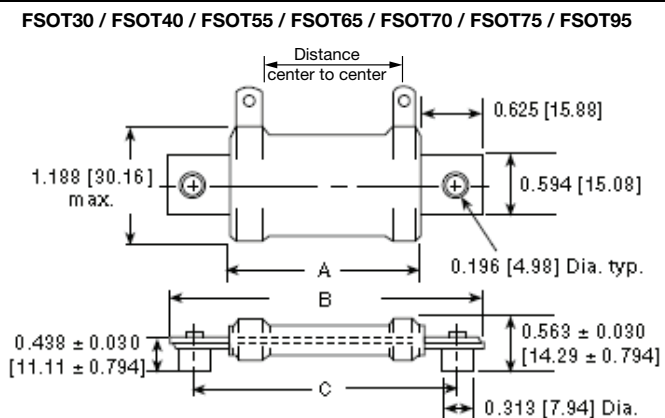
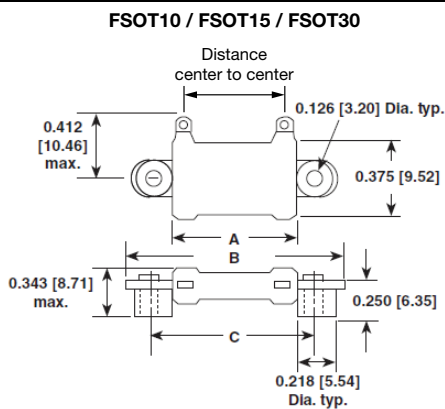
 Global Part Numbering example: **FSOT5509E25R00JE** (visit [www.vishay.net](http://www.vishay.net) SAP parts manual for all options)

<b>F</b>	<b>S</b>	<b>O</b>	<b>T</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>9</b>	<b>E</b>	<b>2</b>	<b>5</b>	<b>R</b>	<b>0</b>	<b>0</b>	<b>J</b>	<b>E</b>		
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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)	<b>09</b> <b>11</b> <b>16</b>	<b>E</b> = lead (Pb)-free	<b>R</b> = decimal <b>K</b> = thousand <b>1R500</b> = 1.5 Ω <b>1K500</b> = 1.5 kΩ	<b>J</b> = ± 5 % <b>K</b> = ± 10 %	<b>E</b> = lead (Pb)-free cell and bulk pack	(dash number) from <b>1</b> to <b>99</b> as applicable <b>CT</b> = center tap <b>NI</b> = non-inductive

 Historical Part Number example: **FSOT-55-25-5 %**

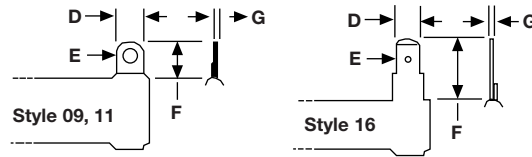
<b>FSOT-20</b>	<b>25 Ω</b>	<b>5 %</b>	
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE	SPECIAL

**DIMENSIONS** in inches [millimeters]


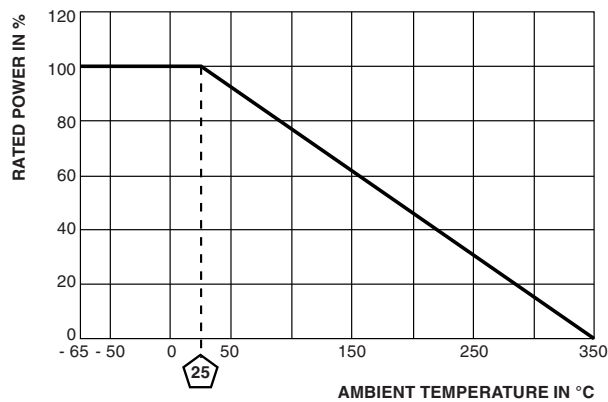
MODEL	A ± 0.063 [1.59]	B ± 0.063 [1.59]	C ± 0.031 [0.79]	DISTANCE CENTER TO CENTER (REF.)	TERMINAL DESIGNATION	
					STANDARD	OPTIONAL (QUICK CONNECT)
FSOT10	0.750 [19.05]	1.312 [33.32]	1.000 [25.40]	0.531 [13.49]	11	-
FSOT15	1.000 [25.40]	1.562 [39.67]	1.250 [31.75]	0.781 [19.84]	11	-
FSOT20	2.062 [52.37]	2.625 [66.68]	2.312 [58.72]	1.843 [46.81]	11	-
FSOT30	1.250 [31.75]	2.500 [63.50]	2.000 [50.8]	0.906 [23.01]	09	16
FSOT40	2.000 [50.8]	3.250 [82.55]	2.750 [69.85]	1.656 [42.06]	09	16
FSOT55	3.500 [88.90]	4.750 [120.65]	4.250 [107.95]	3.156 [80.16]	09	16
FSOT65 / FSOT70 <sup>(1)</sup>	4.750 [120.65]	6.000 [152.4]	5.500 [139.7]	4.406 [111.91]	09	16
FSOT75 / FSOT95 <sup>(1)</sup>	6.000 [152.4]	7.250 [184.15]	6.750 [171.45]	5.656 [143.66]	09	16

**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.

**TERMINAL DIMENSIONS**


DIMENSIONS	STYLE 09	STYLE 11	STYLE 16
<b>D</b>	0.188 [4.76]	0.125 [3.18]	0.188 [4.76]
<b>E (HOLE DIAMETER)</b>	0.106 [2.69]	0.081 [2.10]	0.050 [1.27]
<b>F</b>	0.438 [11.13]	0.235 [5.97]	0.563 [14.30]
<b>G</b>	0.020 [0.51]	0.020 [0.51]	0.020 [0.51]

**DERATING**

**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

**Optional Terminals (Quick Connect):** 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.



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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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