

Wirewound Resistors, Industrial Power, Silicone Coated, Fixed Edgewound Tubular


FEATURES

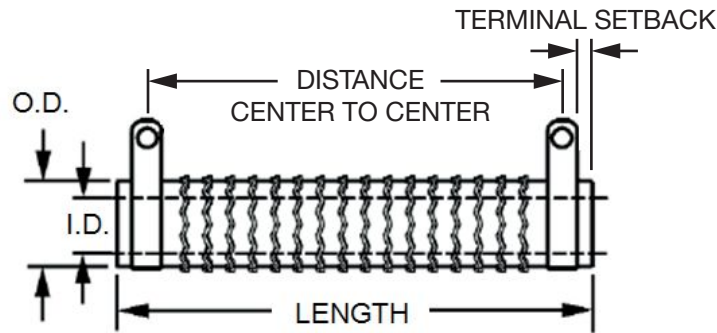
- High temperature silicone coating
- Complete welded construction
- Excellent stability in operation (< 3 % change in resistance)
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



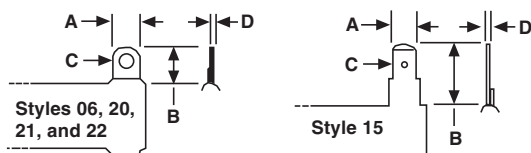
RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE Ω $\pm 5\%$	RESISTANCE RANGE Ω $\pm 10\%$	WEIGHT (typical) g
FSE0050	FSE-50	50	1.0 to 3.8	1.0 to 3.8	18
FSE0090	FSE-90	90	0.10 to 5.7	0.10 to 5.7	36
FSE0100	FSE-100	100	1.0 to 6.1	0.15 to 6.1	41
FSE0110	FSE-110	110	1.0 to 7.4	0.20 to 7.4	49
FSE0120	FSE-120	120	1.0 to 8.6	0.1 to 8.6	54
FSE0155	FSE-155	155	1.0 to 12.5	0.1 to 12.5	129
FSE0240	FSE-240	240	1.0 to 18	0.1 to 18	186
FSE0300	FSE-300	300	1.0 to 25	0.15 to 25	236
FSE0375	FSE-375	375	1.0 to 32	0.20 to 32	286
FSE0420	FSE-420	420	1.0 to 35.8	0.25 to 35.8	320
FSE0500	FSE-500	500	1.0 to 46.2	0.30 to 46.2	381
FSE0750	FSE-750	750	1.0 to 81.3	0.35 to 81.3	654
FSE1000	FSE-1000	1000	1.0 to 101.6	0.40 to 101.6	817
FSE1500	FSE-1500	1500	1.0 to 135.5	0.15 to 135.5	1090

GLOBAL PART NUMBER INFORMATION																	
Global Part Numbering example: FSE050021E15R0JE (visit www.vishay.net Vishay Dale parts numbering manual for all options)																	
F	S	E	0	5	0	0	2	1	E	1	5	R	0	J	E		
GLOBAL MODEL (7 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (4 digits)		TOLERANCE (1 digit)	PACKAGING CODE (1 digit)	SPECIAL (up to 2 digits)										
(See Standard Electrical Specifications Global Model column for options)	06 15 20 21 22	E = Lead (Pb)-free	R = Decimal 1R50 = 1.5 Ω		J = $\pm 5\%$ K = $\pm 10\%$	E = Lead (Pb)-free cell and bulk pack	(Dash number) From 1 to 99 as applicable 91 = 100 style BKT 92 = 200 style BKT 93 = 300 style BKT										
Historical Part Number example: FSE-500-15-5 %																	
FSE-500		15 Ω		5 %													
HISTORICAL MODEL		RESISTANCE VALUE		TOLERANCE		SPECIAL											

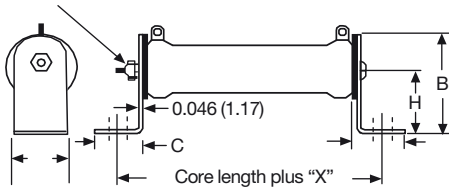
DIMENSIONS in inches [millimeters]


MODEL	CORE DIMENSIONS			TERMINAL SETBACK	DISTANCE CENTER TO CENTER (REF.)	TERMINAL DESIGNATION	
	LENGTH ± 0.062 [± 1.57]	O.D. ± 0.031 [± 0.79]	I.D. ± 0.031 [± 0.79]			STANDARD	OPTIONAL (QUICK CONNECT)
FSE0050	2.000 [50.8]	0.750 [19.05]	0.500 [12.70]	0.094 [2.39]	1.562 [39.67]	06	15
FSE0090	4.000 [101.6]	0.563 [14.30]	0.313 [7.95]	0.094 [2.39]	3.562 [90.47]	06	15
FSE0100	3.500 [88.90]	0.750 [19.05]	0.500 [12.70]	0.079 [2.01]	3.092 [78.54]	06	15
FSE0110	4.000 [101.6]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	3.500 [88.90]	06	15
FSE0120	4.500 [114.3]	0.750 [19.05]	0.547 [13.89]	0.125 [3.18]	4.000 [101.60]	06	15
FSE0155	4.500 [114.3]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	3.311 [84.10]	20	15
FSE0240	6.500 [165.1]	1.125 [28.58]	0.750 [19.05]	0.250 [6.35]	5.561 [141.25]	20	15
FSE0300	8.500 [215.9]	1.125 [28.58]	0.750 [19.05]	0.267 [6.78]	7.591 [192.81]	20	15
FSE0375	10.500 [266.7]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	9.591 [243.61]	20	15
FSE0420	11.750 [288.9]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	10.843 [275.41]	20	15
FSE0500	10.500 [266.7]	1.625 [41.275]	1.125 [28.58]	0.266 [6.76]	9.468 [240.49]	21	-
FSE0750	12.000 [304.8]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	10.484 [266.29]	22	-
FSE1000	15.000 [381.0]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	13.484 [342.49]	22	-
FSE1500	20.000 [508.0]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	18.484 [469.49]	22	-

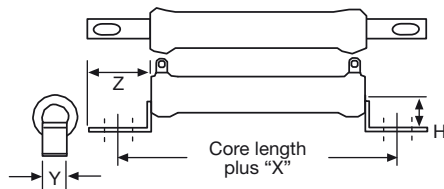
TERMINAL DIMENSIONS in inches [millimeters]


DIMENSIONS	TERMINAL STYLE				
	06	15	20	21	22
A	0.250 [6.35]	0.250 [6.35]	0.375 [9.53]	0.500 [12.70]	0.500 [12.70]
B	0.500 [12.70]	0.594 [15.08]	0.5625 [14.28]	0.625 [15.87]	0.925 [23.49]
C (HOLE DIAMETER)	0.173 [4.39]	0.065 [1.65]	0.204 [5.18]	0.264 [6.70]	0.264 [6.70]
D	0.020 [0.51]	0.031 [0.79]	0.032 [0.812]	0.025 [0.64]	0.025 [0.64]

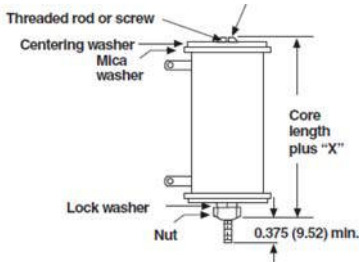
MOUNTING HARDWARE FOR AVT PRODUCTS - Dimensions in inches [millimeters]

91 = 100 Style Horizontal 1 High Bracket


BRACKET TYPE	X	Y	Z	H	MOUNTING SLOT	C	B
102	1.063 [26.99]	0.750 [19.05]	0.859 [21.83]	1.250 [31.75]	0.219 x 0.438 [5.56 x 11.11]	0.750 [19.05]	1.750 [44.75]
103	1.063 [26.99]	1.250 [31.75]	1.000 [25.40]	1.500 [38.10]	0.281 x 0.563 [7.14 x 14.29]	0.927 [23.55]	2.125 [53.98]
104	1.952 [49.58]	2.500 [63.50]	1.478 [37.54]	3.000 [76.20]	open slot x 0.406 [10.31]	1.375 [34.93]	4.25 [107.25]

92 = 200 Style Push-In Bracket


BRACKET TYPE	X	H	Y	Z	HOLE (DIA.)
204	0.700 [17.78]	0.578 [14.68]	0.250 [6.35]	0.500 [12.70]	0.156 [3.96]
206	0.846 [21.49]	0.800 [20.62]	0.375 [9.53]	0.600 [15.24]	0.343 x 0.213 [8.71 x 5.46]
207	0.700 [17.78]	1.125 [28.58]	0.500 [12.70]	0.687 [17.45]	0.250 x 0.188 [6.35 x 4.78]

93 = 300 Style Thru-Bolt Bracket


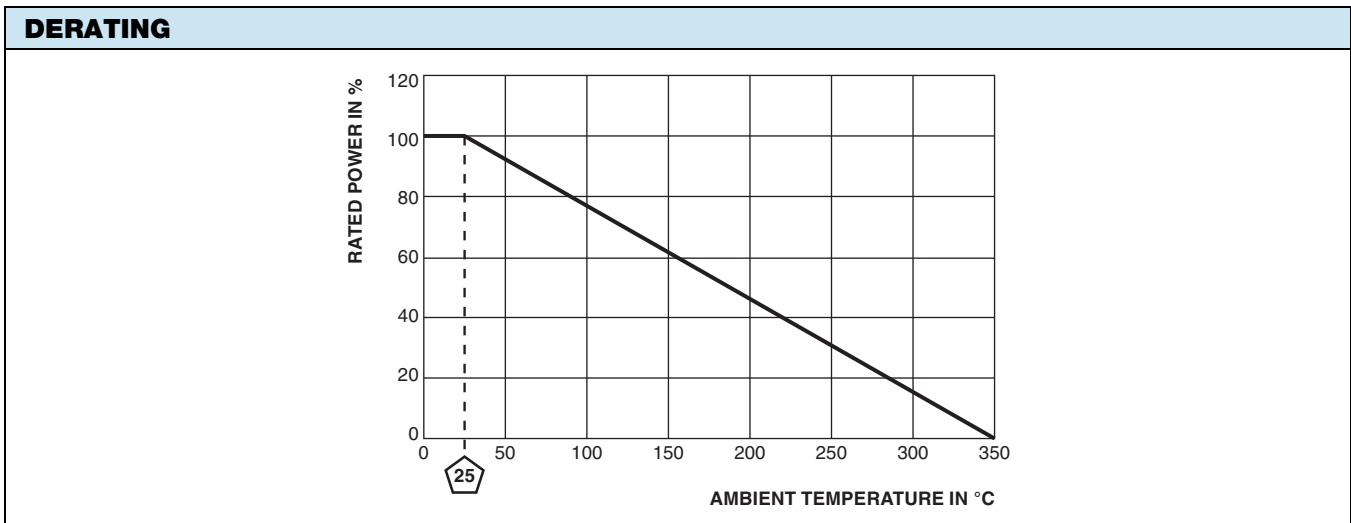
BRACKET TYPE	X (APPROXIMATE)	THREAD
302	0.271 [6.88]	10-32
303	0.463 [11.76]	1/4-20

MOUNTING HARDWARE			
GLOBAL MODEL	AVAILABLE BRACKET TYPES BY MODEL		
	91 = 100 STYLE HORIZONTAL 1 HIGH BRACKET	92 = 200 STYLE PUSH-IN BRACKET	93 = 300 STYLE THRU-BOLT BRACKET
FSE0050	102	206	302
FSE0090	102	204	302
FSE0100	102	206	302
FSE0110	102	206	302
FSE0120	102	206	302
FSE0155	103	207	302
FSE0240	103	207	302
FSE0300	103	207	303
FSE0375	103	207	303
FSE0420	103	207	303
FSE0500	103	-	302
FSE0750	104	-	302
FSE1000	104	-	302
FSE1500	104	-	303



TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Power Rating	W	50 to 1500
Resistance Range	Ω	0.10 to 135.5
Resistance Tolerance	%	10
Temperature Coefficient	ppm/ $^{\circ}$ C	± 260 for 20 Ω and above, ± 400 for 1 Ω to 19.99 Ω
Operating Temperature	$^{\circ}$ C	-55 $^{\circ}$ C to 350 $^{\circ}$ C
Temperature Rise	$^{\circ}$ C	325 $^{\circ}$ C above an ambient of 25 $^{\circ}$ C
Maximum Altitude	f.a.s.l.	10 000
Short-Term Overload	-	10x rated power for 5 s
Surge Windings	-	Available
Maximum Working Voltage	-	$(P \times R)^{0.5}$
Insulation Resistance	Ω	1M
Dielectric Voltage	V _{RMS}	1000 V _{AC}
Creepage	-	Varies by wattage, see "Terminal Setback" in Dimensions table
Terminal Sleeves	-	n/a
Inductance	μ H	Varies by wattage and resistance
Non-Inductive Winding	-	n/a
Terminal Strength	lb	10 lbs
Electrical or Mechanical Customization	-	Contact factory: ww2dresistors@vishay.com

MATERIAL SPECIFICATIONS	
Element	Copper-nickel alloy or nickel-chrome alloy, depending on resistance value
Core	Cordierite, steatite
Coating	Special high temperature silicone
Standard Terminals	Tinned alloy 42
Optional Terminals	Alloy 42
Terminal Bands	Alloy 42
Part Marking	HEI, model, wattage, value, tolerance, date code





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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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