

## Wirewound Resistors, Industrial Power, Silicone Coated, Adjustable Edgewound Tubular


**FEATURES**

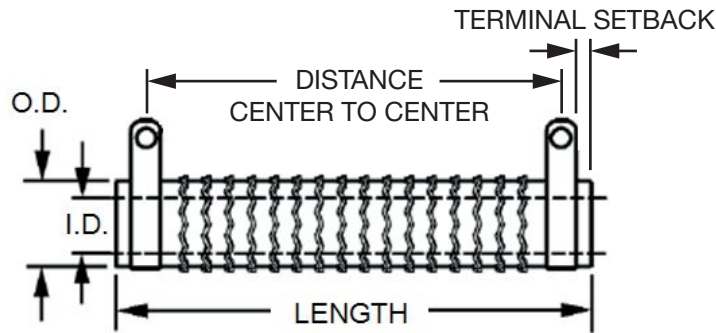
- High temperature silicone coating
- Complete welded construction
- Tight tolerance of 5 % for values above 1  $\Omega$
- Excellent stability in operation (< 3 % change in resistance)
- Material categorization:  
for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



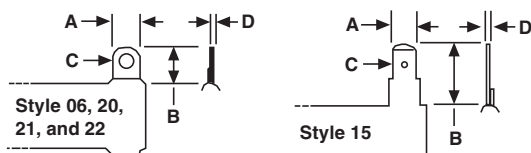
**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE $\Omega$ $\pm 5\%$	RESISTANCE RANGE $\Omega$ $\pm 10\%$	WEIGHT (typical) g
ASE0050	ASE-50	50	1.0 to 3.8	1.0 to 3.8	18
ASE0090	ASE-90	90	0.10 to 5.7	0.10 to 5.7	36
ASE0100	ASE-100	100	1.0 to 6.1	0.15 to 6.1	41
ASE0110	ASE-110	110	1.0 to 7.4	0.20 to 7.4	49
ASE0120	ASE-120	120	1.0 to 8.6	0.1 to 8.6	54
ASE0155	ASE-155	155	1.0 to 12.5	0.1 to 12.5	129
ASE0240	ASE-240	240	1.0 to 18	0.1 to 18	186
ASE0300	ASE-300	300	1.0 to 25	0.15 to 25	236
ASE0375	ASE-375	375	1.0 to 32	0.20 to 32	286
ASE0420	ASE-420	420	1.0 to 35.8	0.25 to 35.8	320
ASE0500	ASE-500	500	0.30 to 46.2	0.30 to 46.2	381
ASE0750	ASE-750	750	0.35 to 81.3	0.35 to 81.3	654
ASE1000	ASE-1000	1000	0.40 to 101.6	0.40 to 101.6	817
ASE1500	ASE-1500	1500	0.45 to 135.5	0.45 to 135.5	1090

GLOBAL PART NUMBER INFORMATION																	
Global Part Numbering example: ASE030020E15R0JE92 (visit <a href="http://www.vishay.net">www.vishay.net</a> SAP parts manual for all options)																	
A	S	E	0	3	0	0	2	0	E	1	5	R	0	J	E	9	2
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 $\Omega$	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 horizontal thru-bolt bracket 92 = 200 style push-in bracket 93 = 300 style vertical thru-bolt bracket											
Historical Part Number example: ASE-300-15-10%-BKTS																	
ASE-300	15 $\Omega$	10 %	BKTS														
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE	SPECIAL														

**DIMENSIONS** in inches [millimeters]


MODEL	CORE DIMENSIONS			TERMINAL SETBACK	DISTANCE CENTER TO CENTER (REF.)	TERMINAL DESIGNATION		SLIDER MODEL NUMBER
	LENGTH ± 0.062 [± 1.57]	O.D. ± 0.031 [± 0.79]	I.D. ± 0.031 [± 0.79]			STANDARD	OPTIONAL (QUICK CONNECT)	
ASE0050	2.000 [50.8]	0.750 [19.05]	0.500 [12.70]	0.094 [2.38]	1.562 [39.67]	06	15	71
ASE0090	4.000 [101.6]	0.563 [14.30]	0.313 [7.95]	0.094 [2.38]	3.562 [90.47]	06	15	71
ASE0100	3.500 [88.90]	0.750 [19.05]	0.500 [12.70]	0.079 [2.39]	3.092 [78.54]	06	15	74
ASE0110	4.000 [101.6]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	3.500 [88.90]	06	15	74
ASE0120	4.500 [114.3]	0.750 [19.05]	0.547 [13.89]	0.125 [3.18]	4.000 [101.60]	06	15	74
ASE0155	4.250 [107.95]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	3.311 [84.10]	20	15	74
ASE0240	6.500 [165.1]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	5.561 [141.25]	20	15	75
ASE0300	8.500 [215.9]	1.125 [28.58]	0.750 [19.05]	0.267 [6.78]	7.591 [192.81]	20	15	75
ASE0375	10.500 [266.7]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	9.591 [243.61]	20	15	75
ASE0420	11.750 [298.45]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	10.843 [275.41]	20	15	76
ASE0500	10.500 [266.7]	1.625 [41.28]	1.125 [28.58]	0.266 [6.76]	9.468 [240.49]	21	-	78
ASE0750	12.000 [304.8]	2.500 [63.5]	1.750 [44.45]	0.508 [12.90]	10.484 [266.29]	21	-	77
ASE1000	15.000 [381.0]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	13.484 [342.49]	22	-	78
ASE1500	20.000 [508.0]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	18.484 [469.49]	22	-	78

**TERMINAL DIMENSIONS** in inches [millimeters]


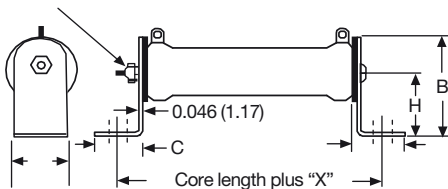
DIMENSIONS	TERMINAL STYLE				
	06	15	20	21	22
A	0.250 [6.35]	0.250 [6.35]	0.375 [9.53]	0.500 [12.70]	0.500 [12.70]
B	0.500 [12.70]	0.594 [15.08]	0.5625 [14.28]	0.625 [15.87]	0.925 [23.49]
C (HOLE DIAMETER)	0.173 [4.39]	0.065 [1.65]	0.204 [5.18]	0.264 [6.70]	0.264 [6.70]
D	0.020 [0.51]	0.031 [0.79]	0.032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

ASE SLIDERS-DIMENSIONS in inches [millimeters]						
	GLOBAL PART NUMBER (1) (RoHS COMPLIANT)	GLOBAL MODEL (OF RESISTOR)	SLIDER MODEL NUMBER	DIMENSIONS		
				WIDTH	HEIGHT	HOLE DIAMETER
	75008603E29	ASE0050, ASE0090	71	0.250 [6.35]	0.719 [18.26]	0.141 [3.58]
	75025201E29	ASE0100, ASE0110, ASE0120, ASE0155	74	0.312 [7.92]	0.891 [22.63]	0.196 [4.98]
	75025203E29	ASE0240, ASE0300, ASE0375	75	0.500 [12.70]	0.891 [22.63]	0.265 [6.73]
	75025204E29	ASE0500, ASE1000, ASE1500, ASE2000	78	0.500 [12.70]	0.891 [22.63]	0.265 [6.73]
	75025206E29	ASE0420	76	0.312 [7.92]	0.891 [22.63]	0.196 [4.98]
	75025207E29	ASE0750	77	0.500 [12.70]	0.891 [22.63]	0.265 [6.73]

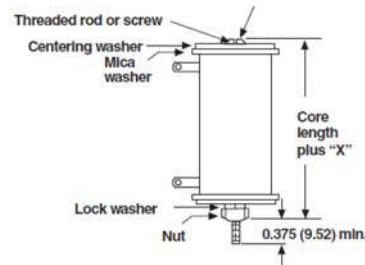
**Note**

(1) Order HEI slider with global part number.

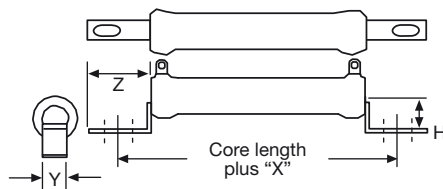
**MOUNTING HARDWARE FOR AVT PRODUCTS** - Dimensions in inches [millimeters]

**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]

**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

**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]

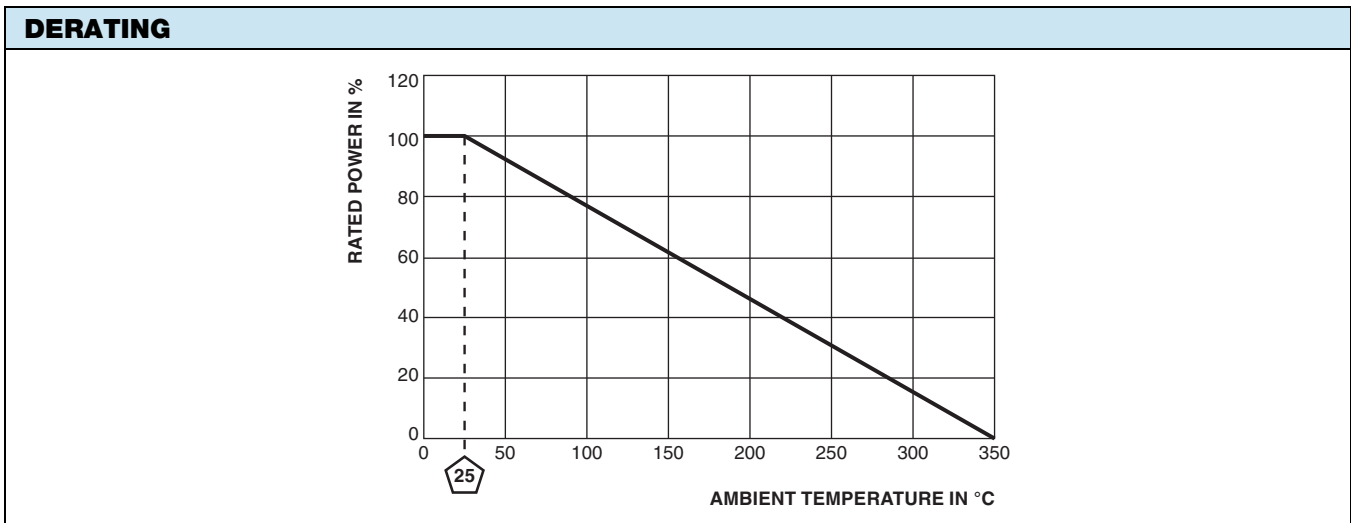
**MOUNTING HARDWARE**

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
ASE0050	102	206	302
ASE0090	102	204	302
ASE0100	102	206	302
ASE0110	102	206	302
ASE0120	102	206	302
ASE0155	103	207	302
ASE0240	103	207	302
ASE0300	103	207	303
ASE0375	103	207	303
ASE0420	103	207	303
ASE0500	103	-	302
ASE0750	104	-	302
ASE1000	104	-	302
ASE1500	104	-	303



TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Power Rating	W	50 to 1500
Resistance Range	$\Omega$	0.10 to 135.5
Resistance Tolerance	%	10
Temperature Coefficient	ppm/ $^{\circ}$ C	$\pm 260$ for 20 $\Omega$ and above, $\pm 400$ for 1 $\Omega$ to 19.99 $\Omega$
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	$\Omega$	1M
Dielectric Voltage	V <sub>RMS</sub>	1000 V <sub>AC</sub>
Creepage	-	Varies by wattage, see "Terminal Setback" in Dimensions table
Terminal Sleeves	-	n/a
Inductance	$\mu$ H	Varies by wattage and resistance
Non-Inductive Winding	-	n/a
Terminal Strength	lb	10 lbs
Electrical or Mechanical Customization	-	Contact factory: <a href="mailto:ww2dresistors@vishay.com">ww2dresistors@vishay.com</a>

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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