Vishay Huntington

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



- · High temperature silicone coating
- Complete welded construction
- Tight tolerance of 5 % for values above 1 Ω
- Excellent stability in operation (< 3 % change in resistance)



• Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS

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GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °C} W	RESISTANCE RANGE Ω ±5%	RESISTANCE RANGE Ω ± 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
ASE0140	HLZ-140	140	0.08 to 9.0	0.08 to 9.0	109
ASE0155	ASE-155	155	1.0 to 12.5	0.1 to 12.5	129
ASE0165	HLZ-165	165	0.35 to 13.0	0.35 to 13.0	91
ASE0180	HLZ-165	180	0.35 to 13.0	0.35 to 13.0	91
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	GLOBAL PART NUMBER INFORMATION							
Global Part Number	Global Part Numbering example: ASE030020E15R0JE92 (visit www.vishay.net 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) (see Standard	(7 digits) DESIGNATION (2 digits)		TERMINAL VALUE FINISH (4 digits) (1 digit) R = decimal		PACKAGING (1 digit) E = lead (Pb)		SPECIAL (up to 2 digits) (dash number)	
Electrical Specifications Global Model column for options)	15 20 21 22	(Pb)-free	1R50 = 1.5 Ω				applicable 91 = 100 style horizontal thru-bolt bracket 92 = 200 style push-in bracket 93 = 300 style vertical thru-bolt	
	Historical Part Number example: ASE-300-15-10%-BKTS							
ASE-300		15 9	15 Ω 10 %		%		BKTS	
HISTORICAL MODEL RESISTANCE VALUE TOLERANCE SPECIAL		SPECIAL						



Document Number: 31851



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For technical questions, contact: ww2dresistors@vishay.com

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DIMENSIONS in inches [millimeters]

DIMENSIONS in inches [millimeters]								
	O.D. CENTER TO CENTER I.D. LENGTH							
	со		NS		DISTANCE	TERMINAL D	ESIGNATION	
MODEL	LENGTH	O.D. ± 0.031 [± 0.79]	I.D. ± 0.031 [± 0.79]	TERMINAL SETBACK	CENTER TO CENTER (REF.)	STANDARD	OPTIONAL (QUICK CONNECT)	SLIDER MODEL NUMBER
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]	0.312 [7.95]	0.094 [2.39]	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]	3.400 [101.60]	06	15	74
ASE0140	4.000 [101.6]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	2.812 [71.42]	20	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
ASE0165 ASE0180	6.500 [165.1]	0.750 [19.05]	0.750 [19.05]	0.125 [3.18]	5.75 [146.05]	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

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TERMINAL DIMENSIONS in inches [millimeters] **TERMINAL STYLE** DIMENSIONS 06 15 20 21 22 0.250 0.250 0.500 0.500 0.375 Α [6.35] [6.35] [9.53] [12.70] [12.70] **←**D Α - D C 0.500 0.594 0.5625 0.625 0.925 в [23.49] [12.70] [15.08] [14.28] [15.87] Style 06, 20, в 21, and 22 Style 15 в С 0.173 0.065 0.204 0.264 0.264 (HOLE [4.39] [1.65] [5.18] [6.70] [6.70] DIAMETER) 0.020 0.031 0.032 0.025 0.025 D [0.51] [0.79] [0.812] [0.64] [0.64]

ASE SLIDERS-DIMENSIONS in inches [millimeters]							
	GLOBAL		SLIDER	DIMENSIONS			
	GLOBAL MODEL (RoHS COMPLIANT) GLOBAL MODEL (OF RESISTOR)		MODEL NUMBER	WIDTH	HEIGHT	HOLE DIAMETER	
WIDTH	75008603E29	ASE0050, ASE0090	71	0.250 [6.35]	0.719 [18.26]	0.141 [3.58]	
Hole Dia.	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]	

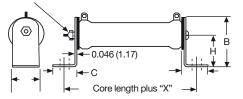
Note (1) Order HEI slider with global part number.

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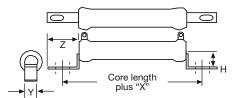
MOUNTING HARDWARE FOR ASE PRODUCTS - Dimensions in inches (millimeters)

91 = 100 Style Horizontal 1 High Bracket



BRACKET TYPE	Х	Y	z	Н	MOUNTING SLOT	С	В
102					0.219 x 0.438 (5.56 x 11.11)		
103	1.063 (26.99)				0.281 x 0.563 (7.14 x 14.29)		

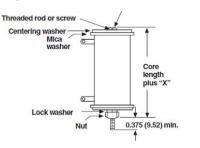
92 = 200 Style Push-In Bracket



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

MOUNTING HARDWARE						
	AVAILABLE BRACKET TYPES BY MODEL					
GLOBAL MODEL	91 = 100 STYLE HORIZONTAL 1 HIGH BRACKET 92 = 200 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			
AVE0120	102	206	302			
ASE0140	103	205	303			
ASE0155	103	207	302			
ASE0165	102	206	303			
ASE0180	102	206	303			
ASE0240	103	207	302			
ASE0300	103	207	303			
ASE0375	103	207	303			
ASE0420	103	207	303			
ASE0500	103	-	302			

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

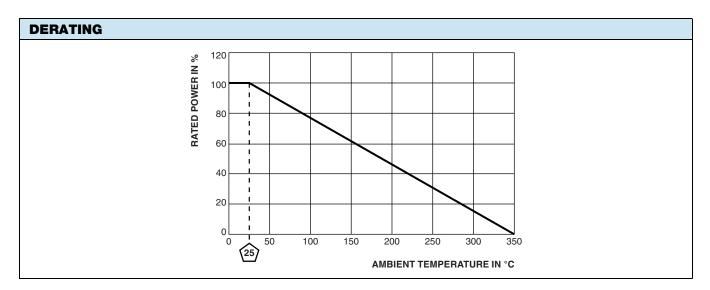
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TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	RESISTOR CHARACTERISTICS			
Power Rating	W	50 to 1500			
Resistance Range	Ω	0.10 to 135.5			
Resistance Tolerance	%	10			
Temperature Coefficient	ppm/°C	\pm 260 for 20 Ω and above, \pm 400 for 1 $\Omega~$ to 19.99 Ω			
Operating Temperature	°C	-55 °C to 350 °C			
Temperature Rise	°C	325 °C above an ambient of 25 °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 x R) ^{0.5}			
Insultation 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	μH	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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