



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



FEATURES

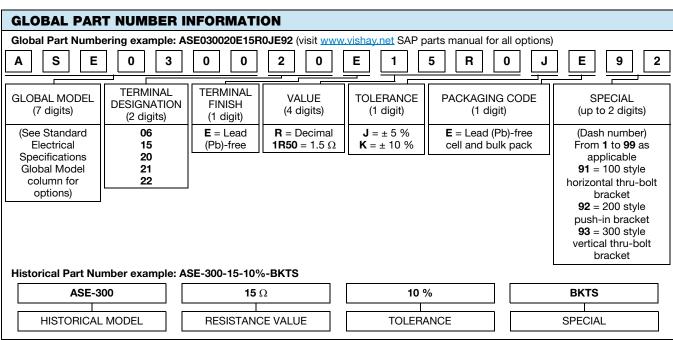
- · High temperature silicone coating
- Complete welded construction
- Tight tolerance of 5 % for values above 1 Ω
- Excellent stability in operation (< 3 % change in resistance)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



ROHS COMPLIANT HALOGEN

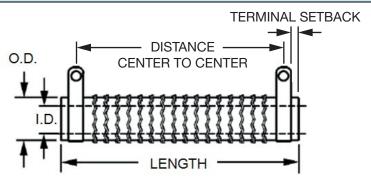
FREE GREEN (5-2008)

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °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	
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	



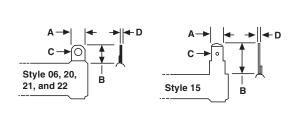


DIMENSIONS in inches [millimeters]



	СО	RE DIMENSIC	NS	DISTANCE		TERMINAL D	ESIGNATION	SLIDER
MODEL	LENGTH ± 0.062 [± 1.57]	O.D. ± 0.031 [± 0.79]	I.D. ± 0.031 [± 0.79]	TERMINAL SETBACK	CENTER TO CENTER (REF.)	STANDARD	OPTIONAL (QUICK CONNECT)	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]	0.313 [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						
DIVIENSIONS	06	15	20	21	22		
A	0.250	0.250	0.375	0.500	0.500		
	[6.35]	[6.35]	[9.53]	[12.70]	[12.70]		
В	0.500	0.594	0.5625	0.625	0.925		
	[12.70]	[15.08]	[14.28]	[15.87]	[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	0.031	0.032	0.025	0.025		
	[0.51]	[0.79]	[0.812]	[0.64]	[0.64]		



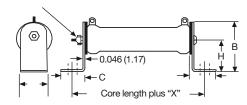
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ASE SLIDERS-DIMENSIONS in inches [millimeters]						
	GLOBAL	OLODAL MODEL	SLIDER		DIMENSIONS	
	PART NUMBER (1) (RoHS COMPLIANT)	(OF RESISTOR)	MODEL NUMBER	WIDTH	HEIGHT	HOLE DIAMETER
WIDTH	75008603E29	ASE0050, ASE0090	71	0.250 [6.35]	0.719 [18.26]	0.141 [3.58]
Hole Dia. HEIGHT	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

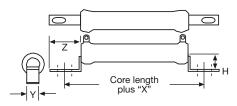
MOUNTING HARDWARE FOR AVT PRODUCTS - Dimensions in inches [millimeters]

91 = 100 Style Horizontal 1 High Bracket



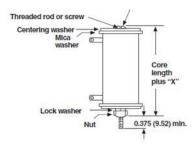
BRACKET TYPE	Х	Y	Z	н	MOUNTING SLOT	С	В
102	1.063 [26.99]	0.750 [19.05]	0.859 [21.83]		0.219 x 0.438 [5.56 x 11.11]		1.750 [44.75]
103	1.063 [26.99]	1.250 [31.75]	1.000 [25.40]		0.281 x 0.563 [7.14 x 14.29]		2.125 [53.98]
104	1.952 [49.58]	2.500 [63.50]	1.478 [37.54]	3.000 [76.20]	open slot x 0.406 [10.31]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

92 = 200 Style Push-In Bracket



BRACKET TYPE	Х	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]

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						
	AVAILABLE BRACKET TYPES BY MODEL					
GLOBAL 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			

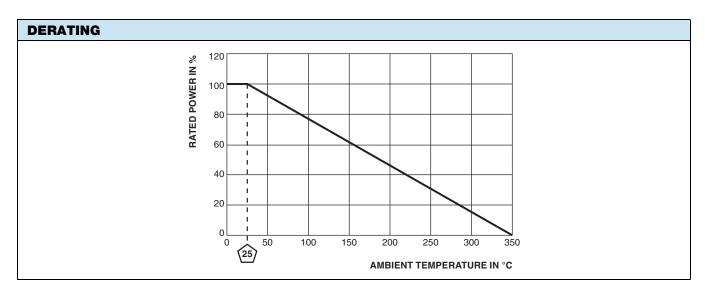
⁽¹⁾ Order HEI slider with global part number.



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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 $\Omega~$		
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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