



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



#### **FEATURES**

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

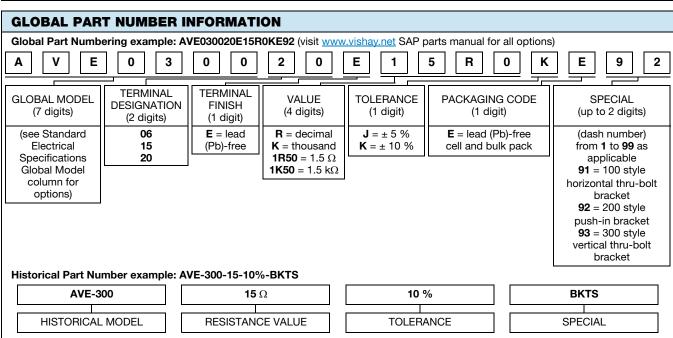




ROHS COMPLIANT HALOGEN

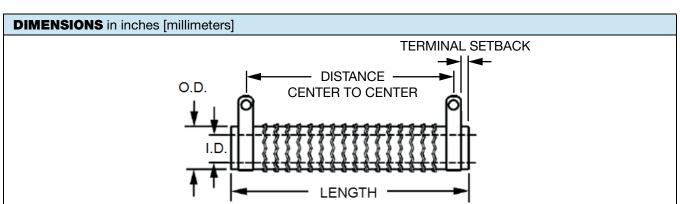
FREE GREEN (5-2008)

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING  P <sub>25 °C</sub> W	RESISTANCE RANGE Ω ±5%	RESISTANCE RANGE Ω ± 10 %	WEIGHT (typical) g	
AVE0050	AVE-50	50	1.0 to 3.8	1.0 to 3.8	18	
AVE0090	AVE-90	90	0.10 to 5.7	0.10 to 5.7	36	
AVE0100	AVE-100	100	1.0 to 6.1	0.15 to 6.1	41	
AVE0110	AVE-110	110	1.0 to 7.4	0.20 to 7.4	49	
AVE0120	AVE-120	120	1.0 to 8.6	0.1 to 8.6	54	
AVE0140	HLZ-140	140	0.08 to 9.0	0.08 to 9.0	109	
AVE0155	AVE-155	155	1.0 to 12.5	0.1 to 12.5	129	
AVE0165	HLZ-165	165	0.35 to 13.0	0.35 to 13.0	91	
AVE0180	HLZ-165	165	0.35 to 13.0	0.35 to 13.0	91	
AVE0240	AVE-240	240	1.0 to 18	0.1 to 18	186	
AVE0300	AVE-300	300	1.0 to 25	0.15 to 25	236	
AVE0375	AVE-375	375	1.0 to 32	0.20 to 32	286	
AVE0420	AVE-420	420	1.0 to 35.8	0.25 to 35.8	320	



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	CO	RE DIMENSIO	NS		DISTANCE	TERMINAL DESIGNATION		SLIDER
MODEL	LENGTH	O.D. ± 0.031 [± 0.79]	I.D. ± 0.031 [± 0.79]	TERMINAL SETBACK	CENTER TO CENTER (REF.)	STANDARD	OPTIONAL (QUICK CONNECT)	MODEL NUMBER
AVE0050	2.000 [50.8]	0.750 [19.05]	0.500 [12.70]	0.094 [2.18]	1.562 [39.67]	06	15	71
AVE0090	4.000 [101.6]	0.563 [14.30]	0.312 [7.95]	0.094 [2.39]	3.562 [90.47]	06	15	71
AVE0100	3.500 [88.90]	0.750 [19.05]	0.500 [12.70]	0.079 [2.39]	3.092 [78.54]	06	15	74
AVE0110	4.000 [101.6]	0.750 [19.05]	0.500 [12.70]	0.125 [2.01]	3.500 [88.90]	06	15	74
AVE0120	4.500 [114.3]	0.750 [19.05]	0.547 [13.89]	0.125 [3.18]	3.400 [101.60]	06	15	74
AVE0140	4.000 [101.6]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	2.812 [71.42]	20	15	74
AVE0155	4.250 [107.95]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	3.311 [84.10]	20	15	74
AVE0165 AVE0180	6.500 [165.1]	0.750 [19.05]	0.750 [19.05]	0.125 [3.18]	5.75 [146.05]	20	15	74
AVE0240	6.500 [165.1]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	5.625 [142.88]	20	15	75
AVE0300	8.500 [215.9]	1.125 [28.58]	0.750 [19.05]	0.267 [6.78]	7.591 [192.81]	20	15	75
AVE0375	10.500 [266.7]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	9.593 [243.66]	20	15	75
AVE0420	11.750 [298.45]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	10.843 [275.41]	20	15	76

#### **TERMINAL DIMENSIONS** in inches [millimeters] TERMINAL STYLE **DIMENSIONS** 06 15 0.250 0.250 0.375 Α [6.35][6.35][9.53]0.594 0.5625 0.500 В [12.70][15.08] [14.28] Style 06 C (HOLE DIAMETER) 0.173 0.204 0.065 and 20 Styles 15 [4.39][1.65] [5.18]0.020 0.032 0.031 D [0.51][0.79][0.812]

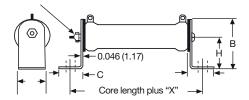
AVE SLIDERS-DIMENSIONS in inches [millimeters]						
	GLOBAL	GLOBAL MODEL	SLIDER MODEL NUMBER	DIMENSIONS		
WIDTH	PART NUMBER <sup>(1)</sup> (RoHS COMPLIANT)	(OF DESISTOR)		WIDTH	HEIGHT	HOLE DIAMETER
Hole Dia.	75008603E29	ASE0050, ASE0090	71	0.250 [6.35]	0.719 [18.26]	0.141 [3.58]
	75025201E29	ASE0100, 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]
***************************************	75025206E29	ASE0420	76	0.312 [7.92]	0.891 [22.63]	0.196 [4.98]

(1) Order HEI slider with global part number.



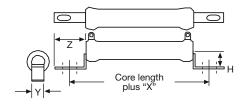
#### **MOUNTING HARDWARE FOR AVE PRODUCTS** - Dimensions in inches (millimeters)

#### 91 = 100 Style Horizontal 1 High Bracket



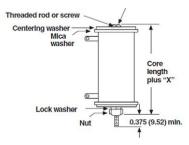
BRACKET TYPE	х	Y	Z	н	MOUNTING SLOT	С	В
102					0.219 x 0.438 (5.56 x 11.11)		
103					0.281 x 0.563 (7.14 x 14.29)		

#### 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)

#### 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

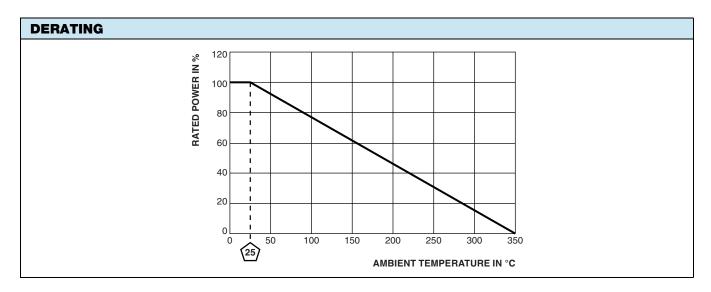
MOUNTING HARDWARE						
	AVAILABLE BRACKET TYPES BY MODEL					
GLOBAL MODEL	91 = 100 STYLE HORIZONTAL 1 HIGH BRACKET	92 = 200 STYLE PUSH-IN BRACKET	93 = 300 STYLE THRU-BOLT BRACKET			
AVE0050	102	206	302			
AVE0090	102	204	302			
AVE0100	102	206	302			
AVE0110	102	206	302			
AVE0120	102	206	302			
AVE0140	103	205	303			
AVE0155	103	207	302			
AVE0165	102	206	303			
AVE0180	102	206	303			
AVE0240	103	207	302			
AVE0300	103	207	303			
AVE0375	103	207	303			
AVE0420	103	207	303			
AVE0500	103	-	302			



# Vishay Huntington

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Power Rating	W	50 to 420		
Resistance Range	Ω	0.10 to 35.8		
Resistance Tolerance	%	10		
Temperature Coefficient	ppm/°C	$\pm$ 260 for 20 $\Omega$ 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) <sup>0.5</sup>		
Insultation Resistance	Ω	1M		
Dielectric Voltage	$V_{RMS}$	1000 V <sub>AC</sub>		
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 vitreous enamel			
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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