Vishay Huntington

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



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

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

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

•••••••							
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °C} 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		

GLOBAL PART NUMBER INFORMATION								
Global Part Numbering exam	Global Part Numbering example: AVE030020E15R0KE92 (visit www.vishay.net SAP parts manual for all options)							
A V E 0	3 0 0	2 0	E 1	5 R	0 K	E 9 2		
GLOBAL MODEL (7 digits) (see Standard Electrical Specifications 20	TION FINISH	VALUE (4 digits) $\mathbf{R} = decimal$ $\mathbf{K} = thousand$ $\mathbf{1R50} = 1.5 \Omega$	TOLERANCE (1 digit) $J = \pm 5 \%$ $K = \pm 10 \%$	PACKAGING (1 digit) E = lead (Pb cell and bulk))-free	SPECIAL (up to 2 digits) (dash number) from 1 to 99 as applicable		
Global Model column for options)		1K50 = 1.5 kΩ				91 = 100 style horizontal thru-bolt bracket 92 = 200 style push-in bracket		
Historical Part Number exar	nple: AVE-300-15-10	%-BKTS				93 = 300 style vertical thru-bolt bracket		
		Ω	10 %		BKTS			
HISTORICAL MODEL	RESISTANCE VALUE		TOLERANCE			SPECIAL		

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For technical questions, contact: ww2dresistors@vishay.com

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DIMENSIONS in inches [millimeters]

					TERMI	NAL SETBACH	<	
	O.D. DISTANCE CENTER TO CENTER							
	CO	RE DIMENSIO			DISTANCE	TERMINAL D	ESIGNATION	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 DIMENSIO	TERMINAL DIMENSIONS in inches [millimeters]							
			DIMENSIONS		TERMINAL STYLE			
				510113	06	15	20	
		∢ D 	Α		0.250 [6.35]	0.250 [6.35]	0.375 [9.53]	
			В		0.500 [12.70]	0.594 [15.08]	0.5625 [14.28]	
and 20 B Styles 15 B			C (HOL DIAME		0.173 [4.39]	0.065 [1.65]	0.204 [5.18]	
			D		0.020 [0.51]	0.031 [0.79]	0.032 [0.812]	
AVE SLIDERS-DIMEN	SIONS in inches [mi	llimeters]						
	GLOBAL	GLOBAL MODEL SLID		SLIDER				
	PART NUMBER ⁽¹⁾ (RoHS COMPLIANT)	(OF RES		MODEL NUMBER	WIDTH	HEIGHT	HOLE DIAMETER	
Hole Dia.	75008603E29	ASE0050, /	ASE0090	71	0.250 [6.35]	0.719 [18.26]	0.141 [3.58]	
	75025201E29	ASE0100, A ASE0120, A		74	0.312 [7.92]	0.891 [22.63]	0.196 [4.98]	
	75025203E29	ASE0240, A ASE0		75	0.500 [12.70]	0.891 [22.63]	0.265 [6.73]	
	75025206E29	ASE0	420	76	0.312 [7.92]	0.891 [22.63]	0.196 [4.98]	
	75025200E29	7.020	720	10	0.012 [1.02]	0.001 [22.00]	0.100 [4.00]	

⁽¹⁾ Order HEI slider with global part number.

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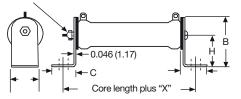
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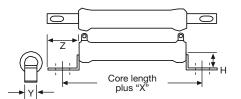
MOUNTING HARDWARE FOR AVE PRODUCTS - Dimensions in inches (millimeters)

91 = 100 Style Horizontal 1 High Bracket



BRACKET TYPE	x	Y	z	Н	MOUNTING SLOT	С	В
102					0.219 x 0.438 (5.56 x 11.11)		
103	1.063 (26.99)	1.250 (31.75)			0.281 x 0.563 (7.14 x 14.29)		

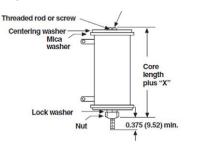
92 = 200 Style Push-In Bracket



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 E	ILABLE BRACKET TYPES BY MODEL					
GLOBAL MODEL	91 = 100 STYLE HORIZONTAL 1 HIGH BRACKET	STYLE IORIZONTAL 1 HIGH 92 = 200 STYLE PUSH-IN 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				

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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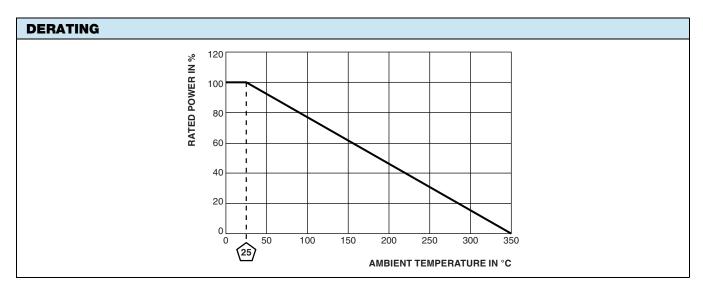
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AVE

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 Ω and above, \pm 400 for 1 Ω 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 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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