



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 Ω
- Excellent stability in operation (< 3 % change in resistance)

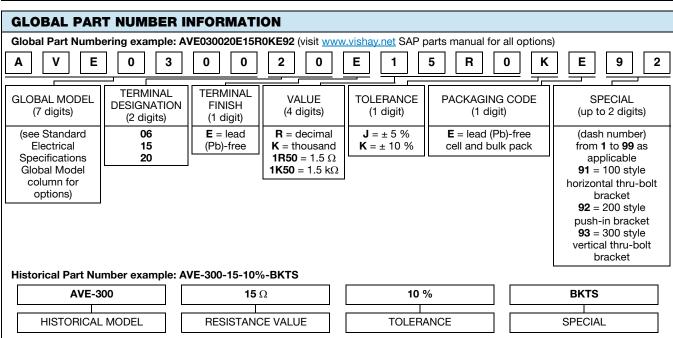




ROHS COMPLIANT HALOGEN

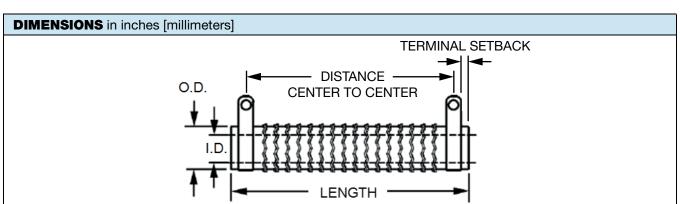
FREE GREEN (5-2008)

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



20





	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]

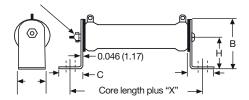
AVE SLIDERS-DIMENSIONS in inches [millimeters]						
	GLOBAL	GLOBAL MODEL	SLIDER MODEL NUMBER	DIMENSIONS		
WIDTH	PART NUMBER ⁽¹⁾ (RoHS COMPLIANT)	(OF DESISTOR)		WIDTH	HEIGHT	HOLE DIAMETER
Hole Dia.	75008603E29	ASE0050, ASE0090	71	0.250 [6.35]	0.719 [18.26]	0.141 [3.58]
	75025201E29	ASE0100, ASE0110, 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.



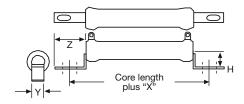
MOUNTING HARDWARE FOR AVE PRODUCTS - Dimensions in inches (millimeters)

91 = 100 Style Horizontal 1 High Bracket



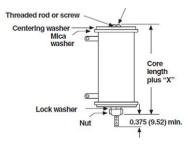
BRACKET TYPE	х	Y	Z	н	MOUNTING SLOT	С	В
102					0.219 x 0.438 (5.56 x 11.11)		
103					0.281 x 0.563 (7.14 x 14.29)		

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

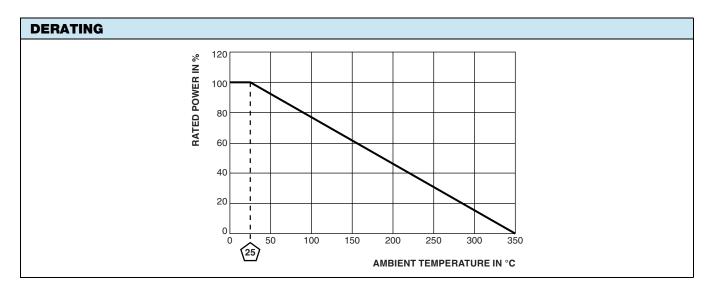
MOUNTING HARDWARE						
	AVAILABLE BRACKET TYPES BY MODEL					
GLOBAL MODEL	91 = 100 STYLE HORIZONTAL 1 HIGH BRACKET	92 = 200 STYLE PUSH-IN BRACKET	93 = 300 STYLE THRU-BOLT BRACKET			
AVE0050	102	206	302			
AVE0090	102	204	302			
AVE0100	102	206	302			
AVE0110	102	206	302			
AVE0120	102	206	302			
AVE0140	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 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			





Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Wirewound Resistors - Chassis Mount category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

HD300HLR71J RER50F18R7RC02 RER50F7R50RC02 RER75F4991MC02 RH0055R000FC02W09 2-1623821-6 FVT200-500

RDSF010015R00JDBNI RER60F34R8RC02 RER60F51R1MC0230 RER65F1R50PC02 RER70F62R5PC02 VK100NA-200 VK100NA-50

VK100NA-750 40/70MJ2K00BE VP10FA-3K VP50KA-20K VPR10F1 VPR10F-13.5K VPR10F-4500 VPR10F-4.5K VPR10F-4K

VPR10F-700 VPR10F-7.5K VPR20H150 VPR5F-22.5K L75J1K0E VRH320 3K3 K RER65F2940PC02 RER65F4R99RC02

RER75F1R00RC02 RER65FR100RC02 RER70F27R4P VPR5F-600 VPR5F250 VPR10F-8K VPR10F-6K VPR10F-25 VPR10F-1.75K

VPR10F-1.25K VPR10F-125 VPR10F10 VP50KA-12K VP50KA-100K VP25KA-5000 VK100NA250 VK100NA-15 850J5R0E-B

L100J150E-MT1