

Wirewound Resistors, Industrial Power, Vitreous Coated, Adjustable Tubular



FEATURES

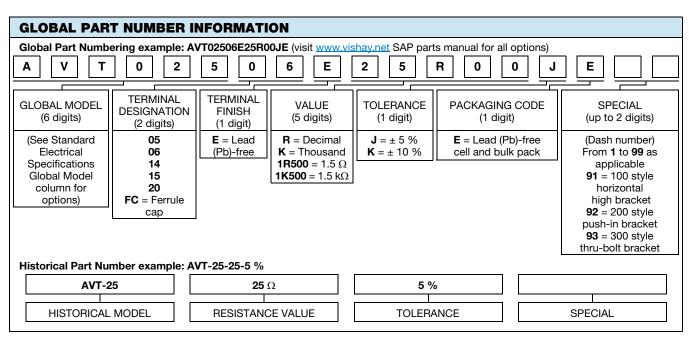
- · High temperature vitreous coating
- Complete welded construction
- Tight tolerance of 5 % for values above 1 Ω
- Excellent stability in operation (< 3 % change in resistance)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



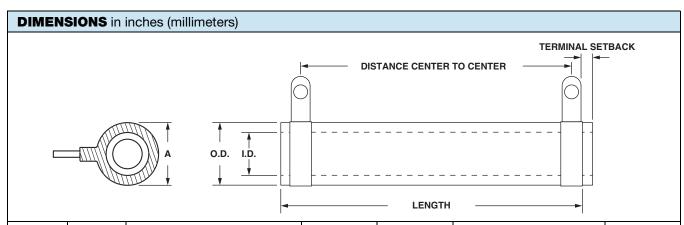
ROHS COMPLIANT HALOGEN FREE

FREE GREEN (5-2008)

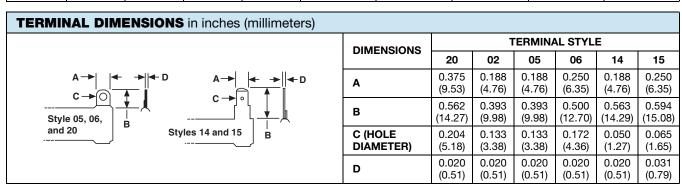
STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °C} W	TOLERANCE ± %	RESISTANCE VALUE Ω	WEIGHT (typical) g		
AVT010	AVT-10	12	5, 10	0.1 to 10.2K	6.69		
AVT020	AVT-20	20	5, 10	1.0 to 18K	12.57		
AVT025	AVT-25	25	5, 10	0.1 to 23K	20.72		
AVT25A	AVT-25A	30	5, 10	0.1 to 30K	20.72		
AVT25B	AVT-25B	30	5, 10	0.1 to 24K	14.25		
AVT050	AVT-50	50	5, 10	0.1 to 57K	42.08		
AVT50A	AVT-50A	60	5, 10	0.1 to 75K	65.64		
AVT50B	AVT-50B	70	5, 10	0.1 to 84.3K	64.82		
AVT075	AVT-75	75	5, 10	0.1 to 85.5K	106.37		
AVT75A	AVT-75A	90	5, 10	0.1 to 114K	183.82		
AVT100	AVT-100	100	5, 10	0.1 to 132K	91.37		
AVT130	AVT-130	130	5, 10	0.1 to 192K	192.36		
AVT160	AVT-160	175	5, 10	0.1 to 398K	250.8		
AVT200	AVT-200	225	5, 10	0.1 to 337K	309.97		
AVT225	AVT-225	225	5, 10	0.1 to 337K	309.97		







		CORE DIMENSIONS			TERMINAL	DISTANCE	TERMINAL D	ESIGNATION	SLIDER
MODEL	A (MAX.)	LENGTH ± 0.062 (1.59)	O.D. ± 0.031 (0.79)	I.D. ± 0.031 (0.79)	SETBACK ± 0.031 (0.79)	CENTER TO CENTER (REF.)	STANDARD	OPTIONAL (QUICK CONNECT)	MODEL NUMBER
AVT010	0.406 (10.31)	1.750 (44.45)	0.313 (7.95)	0.188 (4.78)	0.094 (2.39)	1.375 (34.93)	05	14	70
AVT020	0.563 (14.30)	2.000 (50.8)	0.438 (11.13)	0.260 (6.60)	0.094 (2.39)	1.625 (41.28)	02	14	70
AVT025	0.668 (17.48)	2.000 (50.8)	0.563 (14.30)	0.313 (7.95)	0.094 (2.39)	1.562 (39.67)	06	15	71
AVT25A	0.906 (23.01)	2.000 (50.8)	0.750 (19.05)	0.500 (12.7)	0.094 (2.39)	1.562 (39.67)	06	15	72
AVT25B	0.770 (19.56)	2.000 (50.8)	0.625 (15.88)	0.453 (11.51)	0.094 (2.39)	1.562 (39.67)	06	15	71
AVT050	0.688 (17.48)	4.000 (101.6)	0.563 (14.30)	0.313 (7.95)	0.094 (2.39)	3.562 (90.47)	06	15	71
AVT50A	0.906 (23.01)	4.000 (101.6)	0.750 (19.05)	0.500 (12.70)	0.062 (1.57)	3.626 (92.10)	06	15	71
AVT50B	0.906 (23.01)	4.500 (114.3)	0.750 (19.05)	0.547 (13.89)	0.125 (3.18)	4.000 (101.60)	06	15	72
AVT075	0.688 (17.48)	6.000 (152.4)	0.563 (14.30)	0.313 (7.95)	0.094 (2.39)	5.562 (141.27)	06	15	71
AVT75A	0.906 (23.01)	6.000 (152.4)	0.750 (19.05)	0.500 (12.70)	0.094 (2.39)	5.562 (141.27)	06	15	72
AVT100	0.906 (23.01)	6.500 (165.1)	0.750 (19.05)	0.500 (12.70)	0.125 (3.18)	6.000 (152.40)	06	15	72
AVT130	1.313 (33.35)	6.500 (165.1)	1.125 (28.58)	0.750 (19.05)	0.282 (7.16)	5.374 (136.50)	20	15	73
AVT160	1.313 (33.35)	8.500 (215.9)	1.125 (28.58)	0.750 (19.05)	0.267 (6.78)	7.404 (188.06)	20	15	73
AVT200 AVT225	1.313 (33.35)	10.500 (266.7)	1.125 (28.58)	0.750 (19.05)	0.266 (6.76)	9.406 (238.91)	20	15	73





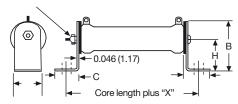
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AVT SLIDERS-DIMENSIONS in inches (millimeters)							
		GLOBAL PART NUMBER FOR EXTRA SLIDERS	SLIDER MODEL TYPE	DIMENSIONS			
Width	GLOBAL PART NUMBER (1) (RoHS COMPLIANT)			WIDTH	HEIGHT	HOLE DIAMETER	
Hole	75008602E29	AVT010, AVT020	70	0.187 (4.75)	0.516 (13.11)	0.125 (3.18)	
dia. Height	75008603E29	AVT025, AVT25B, AVT050, AVT50A, AVT075	71	0.250 (6.35)	0.719 (18.26)	0.141 (3.58)	
	75008604E29	AVT25A, AVT50B, AVT75A, AVT100	72	0.250 (6.35)	0.844 (21.44)	0.141 (3.58)	
	75008605E29	AVT130, AVT160, AVT200, AVT225	73	0.312 (7.92)	0.797 (20.24)	0.170 (4.32)	

Note

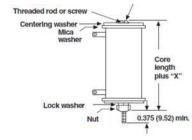
MOUNTING HARDWARE FOR AVT PRODUCTS - Dimensions in inches (millimeters)

91 = 100 Style Horizontal 1 High Bracket



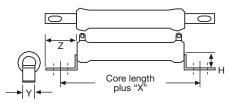
BRACKET TYPE	Х	Y	Z	Н	MOUNTING SLOT	С	В
101	1.063 (26.99)				0.219 x 0.438 (5.56 x 11.11)		
102	1.063 (26.99)				0.219 x 0.438 (5.56 x 11.11)		
103	1.063 (26.99)	1.250 (31.75)			0.281 x 0.563 (7.14 x 14.29)		

93 = 300 Style Thru-Bolt Bracket



BRACKET TYPE	X (APPROXIMATE)	THREAD
301	0.373 (9.47)	8 to 32
302	0.271 (6.88)	8 to 32
303	0.463 (11.76)	1/4 to 20

92 = 200 Style Push-In Bracket



BRACKET TYPE	X	Н	Y	Z	HOLE (DIA.)
202	0.478	0.250	0.125	0.375	0.170
	(12.14)	(6.35)	(3.175)	(9.53)	(4.32)
203	0.583	0.580	0.188	0.460	0.115
	(14.80)	(14.73)	(4.78)	(11.68)	(2.92)
204	0.700	0.578	0.250	0.500	0.156
	(17.78)	(14.68)	(6.35)	(12.70)	(3.96)
205	0.846	0.800	0.375	0.600	0.343 x 0.213
	(21.49)	(20.32)	(9.53)	(15.24)	(8.71 x 5.46)
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)

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			
AVT010	101	202	301			
AVT020	101	203	301			
AVT025	102	204	301			
AVT25A	102	206	302			
AVT25B	102	205	301			
AVT050	102	204	302			
AVT50A	102	206	302			
AVT50B	102	208	302			
AVT075	102	204	301			
AVT75A	102	206	302			
AVT100	102	206	302			
AVT130	103	207	302			
AVT200	103	207	303			
AVT225	103	207	303			

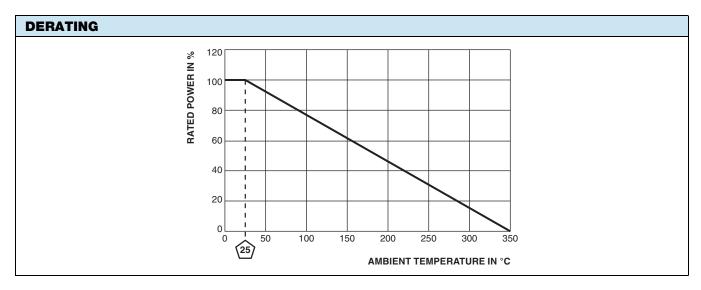
⁽¹⁾ Order HEI slider with global part number.



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TECHNICAL SPECIFICATIONS	3			
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Power Rating	W	12 to 225		
Resistance Range	Ω	1 to 398K		
Resistance Tolerance	%	5, 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		Available		
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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Revision: 02-Oct-12 Document Number: 91000