



Wirewound Resistors, Industrial Power, Vitreous Coated, Adjustable Tubular



FEATURES

- High temperature vitreous coating
- Complete welded construction
- \bullet 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.vishav.com/doc?99912



ROHS
COMPLIANT
HALOGEN
FREE
GREEN

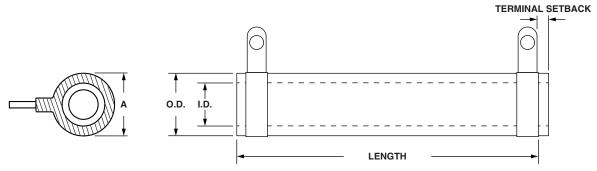
(5-2008)

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		
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		

GLOBAL PART NUMBER INFORMATION							
Global Part Numbering example: AVT02506E25R00JE (visit www.vishay.net SAP parts manual for all options)							
A V T	0 2	5 0 6 E 2 5 R 0 0 J E					
GLOBAL MODEL (6 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (5 digits)	TOLERANCE (1 digit)	PACKAGING CODE (1 digit)	SPECIAL (up to 2 digits)	
(See Standard Electrical	05 06	E = Lead (Pb)-free	R = Decimal K = Thousand 1R500 = 1.5 Ω	$J = \pm 5 \%$ $K = \pm 10 \%$	E = E01 = Lead (Pb)-free skin pack	(Dash number) From 1 to 99 as	
Specifications Global Model column for options) 14 15 20 FC = Ferrule			$1K500 = 1.5 \text{ k}\Omega$			applicable 91 = 100 style BKT 92 = 200 style BKT 93 = 300 style BKT	
Historical Part Nu	Cap Historical Part Number example: AVT-25-25-5 %						
AVT-2	AVT-25		25 Ω				
HISTORICAL MODEL		RESISTANCE VALUE		TOLERANCE		SPECIAL	

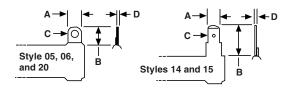
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DIMENSIONS in inches [millimeters]



	DIMENSIONS in inches [millimeters]									
MODEL A	CORE DIMENSIONS			TERMINAL SETBACK	DISTANCE BETWEEN	TERMINAL DESIGNATION		SLIDER	BRACKET	
MODEL	A (MAX.)	LENGTH ± 0.062 (1.59)	O.D.	I.D. ± 0.031 (0.79)	± 0.031 (0.79)	TERMINALS	STANDARD	OPTIONAL (QUICK CONNECT)	MODEL NUMBER	TYPES
AVT010	0.406 [10.31]	1.750 [44.45]	0.313 [7.95]	0.188 [4.78]	0.094 [2.39]	1.187 [30.15]	05	14	70	101, 204, 301
AVT025	0.668 [17.48]	2.000 [50.8]	0.563 [14.30]	0.313 [7.95]	0.094 [2.39]	1.312 [33.32]	06	15	71	101, 203, 301
AVT25A	0.906 [23.01]	2.000 [50.8]	0.750 [19.05]	0.500 [12.7]	0.094 [2.39]	1.312 [33.32]	06	15	72	101, 203, 301
AVT25B	0.770 [19.56]	2.000 [50.8]	0.625 [15.88]	0.453 [11.51]	0.094 [2.39]	1.312 [33.32]	06	15	72	102, 206, 303
AVT050	0.688 [17.48]	4.000 [101.6]	0.563 [14.30]	0.313 [7.95]	0.094 [2.39]	1.312 [33.32]	06	15	72	102, 206, 303
AVT50A	0.906 [23.01]	4.000 [101.6]	0.750 [19.05]	0.500 [12.70]	0.062 [1.57]	3.376 [85.75]	06	15	73	102, 203, 303
AVT50B	0.906 [23.01]	4.500 [114.3]	0.750 [19.05]	0.547 [13.89]	0.125 [3.18]	3.75 [95.25]	06	15	73	102, 206, 303
AVT075	0.668 [17.46]	6.000 [152.4]	0.563 [14.30]	0.313 [7.95]	0.094 [2.39]	5.312 [134.9]	06	15	72	101, 203, 301
AVT75A	0.906 [23.01]	6.000 [152.4]	0.750 [19.05]	0.500 [12.70]	0.094 [2.39]	5.312 [134.9]	06	15	74	102, 206, 303
AVT100	0.906 [23.01]	6.500 [165.1]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	5.750 [146.1]	06	15	73	103, 205, 303
AVT130	1.313[33 .35]	6.500 [165.1]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	5.312 [134.9]	20	15	74	103, 205, 303
AVT160	1.313 [33.35]	8.500 [215.9]	1.125 [28.58]	0.750 [19.05]	0.267 [6.78]	7.341 [186.5]	20	15	74	103, 205, 303
AVT200	1.313 [33.35]	10.500 [266.7]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	9.343 [237.3]	20	15	74	103, 205, 303

TERMINAL DIMENSIONS



DIMENSIONS	TERMINAL STYLE						
DIMENSIONS	20	05	06	14	15		
Α	0.375	0.188	0.250	0.188	0.250		
	[9.53]	[4.76]	[6.35]	[4.76]	[6.35]		
В	0.625	0.438	0.563	0.563	0.594		
	[15.88]	[11.11]	[14.29]	[14.29]	[15.08]		
C	0.196	0.104	0.166	0.050	0.065		
(HOLE DIAMETER)	[4.98]	[2.64]	[4.22]	[1.27]	[1.65]		
D	0.020	0.020	0.020	0.020	0.031		
	[0.51]	[0.51]	[0.51]	[0.51]	[0.79]		



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TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	AVT RESISTOR CHARACTERISTICS			
Temperature Coefficient	ppm/°C	\pm 260 for 20 Ω and above, \pm 400 for 1 Ω to 19.99 $\Omega,$ special TC's available please contact factory			
Short Time Overload	-	10 x rated power for 5 s			
Dielectric Withstanding Voltage	V _{AC}	1000, from terminal to mounting hardware			
Maximum Working Voltage	V	(P x R) ^{1/2}			
Operating Temperature Range °C		- 55 to + 350			

MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy,

depending on resistance value

Core: Ceramic, steatite or cordierite

Coating: Special high temperature vitreous

Standard Terminals: Tinned alloy 42

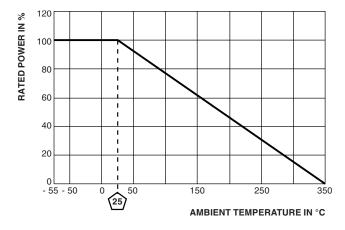
Optional Terminal (Quick Connect): Alloy 42

Terminal Bands: Alloy 42

Part Marking: HEI, model, wattage, value, tolerance, date

code

DERATING



ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000



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Revision: 02-Oct-12 Document Number: 91000