

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
GREEN
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25\text{ }^\circ\text{C}}$ W	TOLERANCE \pm %	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

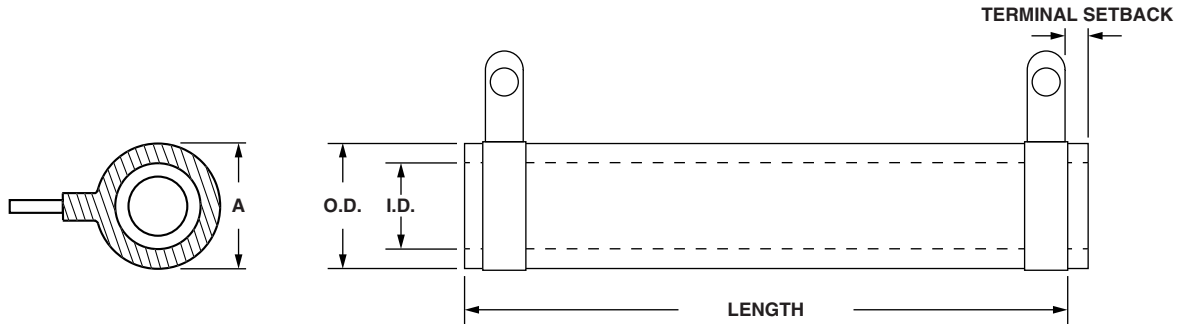
Global Part Numbering example: **AVT02506E25R00JE** (visit www.vishay.net SAP parts manual for all options)

A
V
T
0
2
5
0
6
E
2
5
R
0
0
J
E

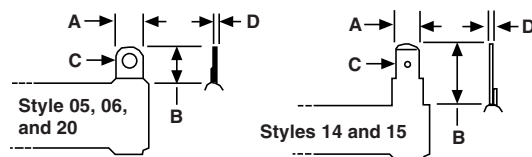
GLOBAL MODEL (6 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (5 digits)	TOLERANCE (1 digit)	PACKAGING CODE (1 digit)	SPECIAL (up to 2 digits)
(See Standard Electrical Specifications Global Model column for options)	05 06 14 15 20 FC = Ferrule cap	E = Lead (Pb)-free	R = Decimal K = Thousand 1R500 = 1.5 Ω 1K500 = 1.5 k Ω	J = \pm 5 % K = \pm 10 %	E = E01 = Lead (Pb)-free skin pack	(Dash number) From 1 to 99 as applicable 91 = 100 style BKT 92 = 200 style BKT 93 = 300 style BKT

Historical Part Number example: **AVT-25-25-5 %**

AVT-25	25 Ω	5 %	
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE	SPECIAL

DIMENSIONS in inches [millimeters]


MODEL	DIMENSIONS in inches [millimeters]									
	A (MAX.)	CORE DIMENSIONS			TERMINAL SETBACK ± 0.031 (0.79)	DISTANCE BETWEEN TERMINALS (REF.)	TERMINAL DESIGNATION		SLIDER MODEL NUMBER	BRACKET TYPES
		LENGTH ± 0.062 (1.59)	O.D.	I.D. ± 0.031 (0.79)			STANDARD	OPTIONAL (QUICK CONNECT)		
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				
	20	05	06	14	15
A	0.375 [9.53]	0.188 [4.76]	0.250 [6.35]	0.188 [4.76]	0.250 [6.35]
B	0.625 [15.88]	0.438 [11.11]	0.563 [14.29]	0.563 [14.29]	0.594 [15.08]
C (HOLE DIAMETER)	0.196 [4.98]	0.104 [2.64]	0.166 [4.22]	0.050 [1.27]	0.065 [1.65]
D	0.020 [0.51]	0.020 [0.51]	0.020 [0.51]	0.020 [0.51]	0.031 [0.79]



TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	AVT RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 260 for 20 Ω and above, ± 400 for 1 Ω to 19.99 Ω, 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	$(P \times R)^{1/2}$
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

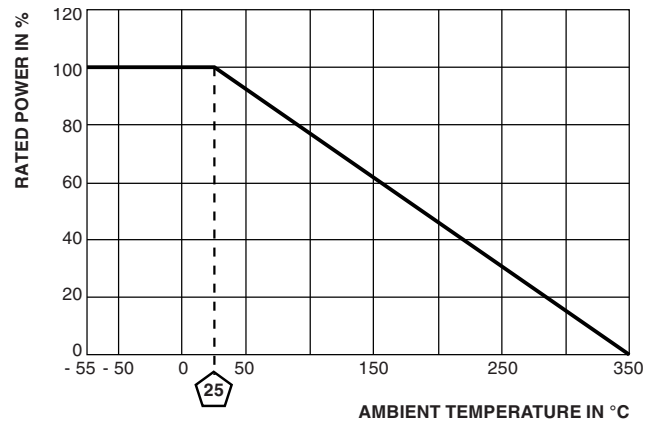
Standard Terminals: Tinned alloy 42

Optional Terminal (Quick Connect): Alloy 42

Terminal Bands: Alloy 42

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

DERATING





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