Vishay Huntington

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



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



ASE

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

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °C} W	RESISTANCE RANGE Ω ±5%	RESISTANCE RANGE Ω ± 10 %	WEIGHT (typical) g	
ASE0050	ASE-50	50	1.0 to 3.8	1.0 to 3.8	18	
ASE0100	ASE-100	100	1.0 to 6.1	0.15 to 6.1	41	
ASE0110	ASE-110	110	1.0 to 7.4	0.20 to 7.4	49	
ASE0120	ASE-120	120	1.0 to 8.6	0.1 to 8.6	54	
ASE0155	ASE-155	155	1.0 to 12.5	0.1 to 12.5	129	
ASE0240	ASE-240	240	1.0 to 18	0.1 to 18	186	
ASE0300	ASE-300	300	1.0 to 25	0.15 to 25	236	
ASE0375	ASE-375	375	1.0 to 32	0.20 to 32	286	
ASE0420	ASE-420	420	1.0 to 35.8	0.25 to 35.8	320	
ASE0500	ASE-500	500	0.30 to 46.2	0.30 to 46.2	381	
ASE0750	ASE-750	750	0.35 to 81.3	0.35 to 81.3	654	
ASE1000	ASE-1000	1000	0.40 to 101.6	0.40 to 101.6	817	
ASE1500	ASE-1500	1500	0.45 to 135.5	0.45 to 135.5	1090	

GLOBAL PART NUMBER INFORMATION							
Global Part Numbering example: ASE030020E15R0JE92 (visit www.vishay.net SAP parts manual for all options)							
A S E	0 3	0 0	2 0	E 1	5 R () J	E 9 2
GLOBAL MODEL (7 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (4 digits)	TOLERANCE (1 digit)	PACKAGING (1 digit)		SPECIAL (up to 2 digits)
(See Standard Electrical	06 15	E = Lead (Pb)-free	R = Decimal 1R50 = 1.5 Ω	J = ± 5 % K = ± 10 %	E = E01 = L (Pb)-free skin		(Dash number) From 1 to 99 as
Specifications Global Model column for options) Historical Part Nur	20 21 22 mber example: A	SE-300-15-10%	6-BKTS				applicable 91 = 100 style horizontal thru-bolt bracket 92 = 200 style push-in bracket 93 = 300 style vertical thru-bolt bracket
ASE-300 15 Ω			Ω	10 %		BKTS	
HISTORICAL MODEL RESISTANCE			CE VALUE	TOLER	ANCE		SPECIAL
Revision: 09-Aug-13			1			Γ	Document Number: 31851

Revision: 09-Aug-13

1 For technical questions, contact: <u>ww2dresistors@vishay.com</u>

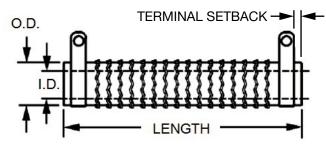


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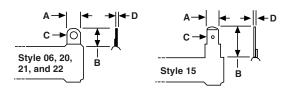
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DIMENSIONS in inches [millimeters]



	DIMENSIONS in inches [millimeters]							
	CO	RE DIMENSIO	NS	TERMINAL SETBACK	DISTANCE	TERMINAL DESIGNATION		
MODEL	LENGTH ± 0.062 [± 1.57]	O.D.	I.D. ± 0.031 [± 0.79]		BETWEEN TERMINALS (REF.)	STANDARD	OPTIONAL (QUICK CONNECT)	BRACKET TYPES
ASE0050	2.000 [50.8]	0.750 [19.05]	0.500 [12.70]	0.086 [2.18]	1.328 [33.73]	06	15	101, 203, 301
ASE0100	3.500 [88.90]	0.750 [14.30]	0.500 [7.95]	0.079 [2.39]	2.842 [72.19]	06	15	102, 206, 303
ASE0110	4.000 [101.6]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	3.250 [82.55]	06	15	102, 206, 303
ASE0120	4.500 [114.3]	0.750 [19.05]	0.547 [13.89]	0.125 [3.18]	3.750 [95.25]	06	15	102, 206, 303
ASE0155	4.500 [114.3]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	3.436 [87.27]	20	15	103, 205, 303
ASE0240	6.500 [165.1]	1.125 [28.58]	0.750 [19.05]	0.250 [6.35]	5.376 [136.6]	20	15	103, 205, 303
ASE0300	8.500 [215.9]	1.125 [28.58]	0.750 [19.05]	0.267 [6.78]	7.342 [186.5]	20	15	103, 205, 303
ASE0375	10.500 [266.7]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	9.344 [237.3]	20	15	103, 205, 303
ASE0420	11.375 [288.9]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	10.219 [259.6]	20	15	103, 205, 303
ASE0500	10.500 [266.7]	1.625 [41.28]	1.125 [28.58]	0.266 [6.76]	8.968 [227.8]	21	-	-
ASE0750	12.000 [304.8]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	3.436 [87.27]	22	-	-
ASE1000	15.000 [381.0]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	5.376 [136.6]	22	-	-
ASE1500	20.000 [508.0]	2.500 [63.50]	1.750 [44.45]	0.508 [12.90]	7.342 [186.5]	22	-	-

TERMINAL DIMENSIONS



DIMENSIONS	TERMINAL STYLE						
DIMENSIONS	06	15	20	21	22		
Α	0.250	0.250	0.375	0.500	0.500		
	[6.35]	[6.35]	[9.53]	[12.70]	[12.70]		
В	0.563	0.594	0.625	1.250	0.625		
	[14.29]	[15.08]	[15.88]	[31.75]	[15.88]		
C	0.166	0.065	0.196	0.190	0.190		
(HOLE DIAMETER)	[4.22]	[1.65]	[4.98]	[4.82]	[4.82]		
D	0.020	0.031	0.020	0.025	0.025		
	[0.51]	[0.79]	[0.51]	[0.64]	[0.64]		

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www.vishay.com

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	ASE 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

Coating: Special high temperature silicone

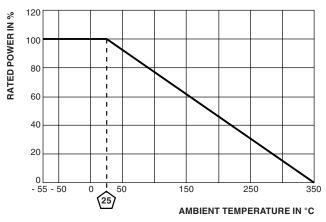
Standard Terminals: Tinned alloy 42

Optional Terminals (Quick Connect): Alloy 42

Terminal Bands: Alloy 42

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

DERATING





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