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HLA

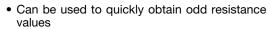
Vishay Dale

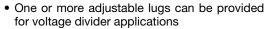
Wirewound Resistors, Industrial Power, Adjustable Tapped Tubular

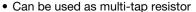


FEATURES

- · Adjustable resistor or voltage divider
- High temperature silicon coating







 Material categorization: for definitions of compliance please see www.vishav.com/doc?99912









(5-2008) Available

Note

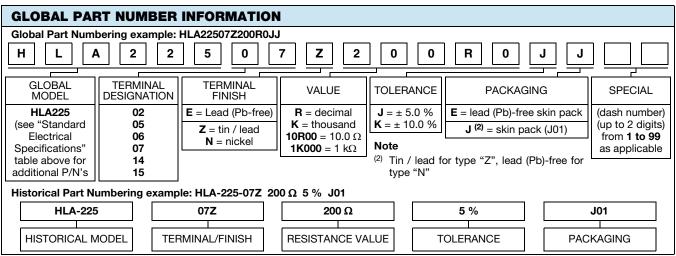
This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.

STANDARD ELECTRICAL SPECIFICATIONS										
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	WEIGHT (typical) g					
HLA012	HLA-12	12	1.0 to 10K	5	6.69					
HLA020	HLA-20	20	1.0 to 18K	5	12.57					
HLA025	HLA-25	25	1.0 to 23K	5	20.72					
HLA026	HLA-26	26	1.0 to 31K	5	15.34					
HLA050	HLA-50	50	1.0 to 57K	5	42.08					
HLA051	HLA-51	51	1.0 to 95K	5	51.96					
HLA060	HLA-60	60	1.0 to 74K	5	65.64					
HLA065	HLA-65	65	1.0 to 130K	5	64.82					
HLA080	HLA-80	80	1.0 to 111K	5	121.58					
HLA100	HLA-100	100	1.0 to 132K	5	91.37					
HLA120	HLA-120	120	1.0 to 180K	5	183.82					
HLA130	HLA-130	130	1.0 to 192K	5	192.36					
HLA160	HLA-160	160	1.0 to 249K	5	245.86					
HLA175	HLA-175	175	1.0 to 398K	5	250.80					
HLA225	HLA-225	225	1.0 to 337K	5	309.97					

TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT	HLA RESISTOR CHARACTERISTICS					
Temperature Coefficient	ppm/°C	\pm 30 for 10 Ω and above; \pm 50 for 1 Ω to 9.9 Ω ; \pm 90 for 0.1 Ω to 0.99 Ω					
Short Time Overload (1)	-	10 x rated power for 5 s					
Maximum Working Voltage	V	$(P \times R)^{1/2}$					
Operating Temperature Range	°C	-55 to +350					

Note

⁽¹⁾ Short time overload is rated without adjustable lug attached.



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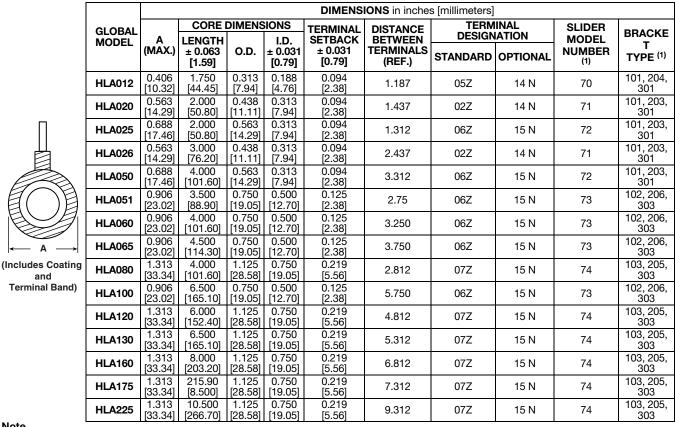




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DIMENSIONS



Note

and

Terminal Band)

(1) Brackets and sliders are available for mounting HLA series resistors - see Mounting Hardware.

ADJUSTABLE LUGS

The coating protects the resistance wire from shifting and shorting to other turns during adjustment. However, the following three steps should always be taken whenever adjustments are made:

- 1. Turn off power to avoid possible operator injury and damage to the unit.
- 2. Loosen adjustable lug until it will slide completely free, without touching the exposed wire.
- 3. When adjustment point has been selected, retighten lug only enough to assure a firm contact, do not tighten beyond this point. Failure to follow these three steps in order can result in damage to the resistor.

TERMINAL DIMENSIONS



DIMENSION	TERMINAL STYLE						
DIMENSION	02	05	06	07	14	15	
А	0.188	0.188	0.250	0.375	0.188	0.250	
	[4.76]	[4.76]	[6.35]	[9.53]	[4.76]	[6.35]	
В	0.406	0.438	0.563	0.625	0.563	0.594	
	[10.32]	[11.118]	[14.29]	[15.88]	[14.29]	[15.08]	
С	0.093	0.104	0.166	0.173	0.050	0.065	
	[2.36]	[2.64]	[4.22]	[4.39]	[1.27]	[1.65]	
D	0.020	0.020	0.020	0.020	0.020	0.031	
	[0.51]	[0.51]	[0.51]	[0.51]	[0.51]	[0.79]	

TERMINAL FINISH

"E" Finish - 100 % Sn coated steel. "Z" Finish - 60/40 Sn/Pb coated steel. "N" Finish - Nickel coated steel. Finish for terminal style 14 and 15 is limited to nickel plated steel (N).

MOUNTING HARDWARE

Mounting Hardware is available for HLA resistors, see "HL Brackets and Sliders" datasheet for more information: www.vishay.com/doc?30279

MATERIAL SPECIFICATIONS

Element: copper-nickel alloy or nickel-chrome depending on resistance range

Core: ceramic, steatite

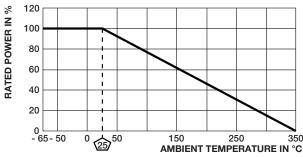
Coating: special high temperature silicone

Standard Terminals: model "E" terminals are tinned steel

Terminal Bands: steel

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

DERATING



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