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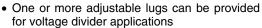


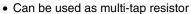
Wirewound Resistors, Industrial Power, Adjustable Tapped Tubular



FEATURES

- · Adjustable resistor or voltage divider
- · High temperature silicon coating
- Can be used to quickly obtain odd resistance values









COMPLIANT

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

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

Note

MATERIAL SPECIFICATIONS

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

depending on resistance range

Core: Ceramic, steatite

Coating: Special high temperature silicone

Standard Terminals: Model "Z" terminals are tinned steel

Terminal Bands: Steel

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

code

GLOBAL PART NUMBER INFORMATION New Global Part Numbering: HLA22507Z200R0JJ (preferred part number format) Н L 2 5 0 Ζ 0 0 R 0 TERMINAL DESIGNATION TERMINAL RESISTANCE GLOBAL **TOLERANCE** PACKAGING CODE **SPECIAL** MODEL **FINISH** VALUE **E** = Lead (Pb)-free skin pack **HLA225** 02 05 06 07 14 15 E = Lead R = Decimal J = 5.0 %(Dash Number) (up to 2 digits) J* = Skin pack (J01) **K** = Thousand K = 10.0 %(See "Standard (Pb)-free From 1 - 99 **10R00** = 10.0 Ω Electrical **Z** = Tin/lead * Tin/lead for type "Z", lead (Pb)-free for type "N" as applicable Specifications" **1K000** = 1 kΩ N = Nickel table above for additional P/N's) Historical Part Number Example: HLA-225-07Z 200 Ω 5 % J01 (will continue to be accepted) HLA-225 J01 07Z **200** Ω 5 % HISTORICAL MODEL TERMINAL/FINISH RESISTANCE VALUE **TOLERANCE PACKAGING**

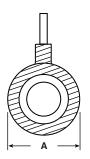
⁽¹⁾ Short Time Overload is rated without adjustable lug attached.



Wirewound Resistors, Industrial Power, Adjustable Tapped Tubular

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DIMENSIONS

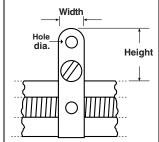


(Includes Coating and Terminal Band)

•		DIMENSIONS in inches [millimeters]									
GLOBAL MODEL	A	CORE DIMENSIONS			TERMINAL SETBACK	DISTANCE BETWEEN	TERMINAL DESIGNATION		ADJ.	MOUNTING HARDWARE	
		(max.)	LENGTH ± 0.063 [1.59]	O.D.	I.D. ± 0.031 [0.79]	± 0.031 [0.79]	TERMINALS (REF.)	STANDARD	OPTIONAL	SLIDER	OPTIONS
Н	LA012	0.406 [10.32]	1.750 [44.45]	0.313 [7.94]	0.188 [4.76]	0.094 [2.38]	1.187	05Z	14 N	70	101, 204, 301
Н	LA020	0.563 [14.29]	2.000 [50.80]	0.438 [11.11]	0.313 [7.94]	0.094 [2.38]	1.437	02Z	14 N	71	101, 203, 301
Н	LA025	0.688 [17.46]	2.000 [50.80]	0.563 [14.29]	0.313 [7.94]	0.094 [2.38]	1.312	06Z	15 N	72	101, 203, 301
Н	LA026	0.563 [14.29]	3.000 [76.20]	0.438 [11.11]	0.313 [7.94]	0.094 [2.38]	2.437	02Z	14 N	71	101, 203, 301
Н	LA050	0.688 [17.46]	4.000 [101.60]	0.563 [14.29]	0.313 [7.94]	0.094 [2.38]	3.312	06Z	15 N	72	101, 203, 301
Н	LA051	0.906 [23.02]	3.500 [88.90]	0.750 [19.05]	0.500 [12.70]	0.125 [2.38]	2.75	06Z	15 N	73	102, 206, 303
Н	LA060	0.906 [23.02]	4.000 [101.60]	0.750 [19.05]	0.500 [12.70]	0.125 [2.38]	3.250	06Z	15 N	73	102, 206, 303
Н	LA065	0.906 [23.02]	4.500 [114.30]	0.750 [19.05]	0.500 [12.70]	0.125 [2.38]	3.750	06Z	15 N	73	102, 206, 303
Н	LA080	1.313 [33.34]	4.000 [101.60]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	2.812	07Z	15 N	74	103, 205, 303
Н	LA100	0.906 [23.02]	6.500 [165.10]	0.750 [19.05]	0.500 [12.70]	0.125 [2.38]	5.750	06Z	15 N	73	102, 206, 303
Н	LA120	1.313 [33.34]	6.000 [152.40]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	4.812	07Z	15 N	74	103, 205, 303
Н	LA130	1.313 [33.34]	6.500 [165.10]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	5.312	07Z	15 N	74	103, 205, 303
Н	LA160	1.313 [33.34]	8.000 [203.20]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	6.812	07Z	15 N	74	103, 205, 303
Н	LA175	1.313 [33.34]	215.90 [8.500]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	7.312	07Z	15 N	74	103, 205, 303
Н	LA225	1.313 [33.34]	10.500 [266.70]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	9.312	07Z	15 N	74	103, 205, 303

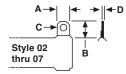
Moving Adjustable Lugs: The coating protects the resistance wire from shifting and shorting to other turns during adjustment. However, the following three steps should always be taken whenever adjustments are made:

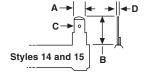
(1) Turn off power to avoid possible operator injury and damage to the unit. (2) Loosen adjustable lug until it will slide completely free, without touching the exposed wire. (3) When adjustment point has been selected, retighten lug only enough to assure a firm contact, do not tighten beyond this point.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



SLIDER MODEL NUMBER	WIDTH	HEIGHT	HOLE DIAMETER	
70	0.188 [4.76]	0.516 [13.10]	0.125 [3.18]	
71	0.250 [6.35]	0.594 [15.08]	0.156 [3.96]	
72	0.250 [6.35]	0.719 [18.26]	0.141 [3.58]	
73	0.250 [6.35]	0.781 [19.84]	0.141 [3.58]	
74	0.313 [7.94]	0.781 [19.84]	0.170 [4.32]	

TERMINAL DIMENSIONS





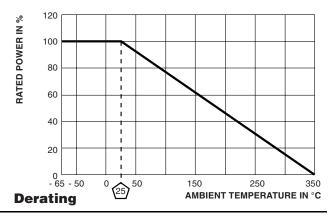
DIMENSION	TERMINAL TYPE							
DIMENSION	02	05	06	07	14	15		
Α	0.188	0.188	0.250	0.375	0.188	0.250		
A	[4.76]	[4.76]	[6.35]	[9.53]	[4.76]	[6.35]		
В	0.406	0.438	0.563	0.625	0.563	0.594		
	[10.32]	[11.118]	[14.29]	[15.88]	[14.29]	[15.08]		
С	0.093	0.104	0.166	0.173	0.050	0.065		
	[2.36]	[2.64]	[4.22]	[4.39]	[1.27]	[1.65]		
D	0.020	0.020	0.020	0.020	0.020	0.031		
0	[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

HLA resistors use same mounting hardware as standard HL resistors, see HL data sheet for mounting hardware dimensions.



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