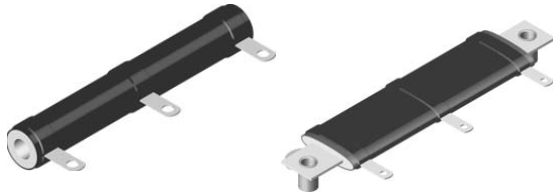


## Wirewound Resistors, Industrial Power, Tapped Tubular



### FEATURES

- Fixed taps for voltage dividers
- High temperature silicon coating
- Complete welded construction
- Excellent stability in operation (< 3 % change in resistance)
- Can be used as multi-tap resistor



**RoHS\***  
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25^\circ\text{C}}$ W	RESISTANCE RANGE TOTAL RESISTANCE WITH ONE TAP $\Omega \pm 10\%$	WEIGHT (typical) g
HLT015	HLT-15	15	0.1 - 18K	8.64
HLT020	HLT-20	20	0.1 - 31K	12.57
HLT025	HLT-25	25	0.1 - 34K	20.72
HLT026	HLT-26	26	0.1 - 59K	15.34
HLT050	HLT-50	50	0.1 - 104K	42.08
HLT051	HLT-51	51	0.1 - 112K	51.96
HLT055	HLT-55	55	0.1 - 49K	60.48
HLT060	HLT-60	60	0.1 - 136K	65.64
HLT065	HLT-65	65	0.1 - 159K	64.82
HLT070	HLT-70	70	0.1 - 72K	60.48
HLT080	HLT-80	80	0.1 - 164K	121.58
HLT095	HLT-95	95	0.1 - 96K	76.51
HLT100	HLT-100	100	0.1 - 253K	91.37
HLT120	HLT-120	120	0.1 - 305K	183.82
HLT130	HLT-130	130	0.1 - 358K	192.36
HLT160	HLT-160	160	0.1 - 446K	245.86
HLT175	HLT-175	175	0.1 - 481K	250.80
HLT225	HLT-225	225	0.1 - 622K	309.97

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	HLT RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	$\pm 90$ for 0.1 $\Omega$ to 0.99 $\Omega$ , $\pm 50$ for 1.0 $\Omega$ to 9.9 $\Omega$ , $\pm 30$ for 10 $\Omega$ and above
Dielectric Withstanding Voltage	$V_{AC}$	1000, from terminal to mounting hardware
Short Time Overload	-	10 x rated power for 5 s
Maximum Working Voltage	V	$(P \times R)^{1/2}$
Insulation Resistance	$\Omega$	1000 M $\Omega$ minimum dry, 100 M $\Omega$ minimum after moisture test
Operating Temperature Range	°C	- 55 to + 350

### GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: HLT12007Z150R0KJ (preferred part numbering format)

H	L	T	1	2	0	0	7	Z	1	5	0	R	0	K	J		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--

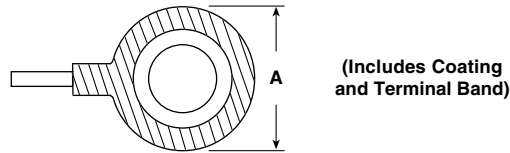
GLOBAL MODEL	TERMINAL DESIGNATION	TERMINAL FINISH	RESISTANCE VALUE	TOLERANCE	PACKAGING CODE	SPECIAL
HLT120 (See "Standard Electrical Specifications" table above for additional P/N's)	02 06 07 09 14 15 16	E = Lead (Pb)-free Z = Tin/lead N = Nickel	R = Decimal K = Thousand 10R00 = 10.0 $\Omega$ 1K000 = 1 k $\Omega$	K = $\pm 10.0\%$	E = Lead (Pb)-free skin pack J* = Skin pack (J01)	(Dash Number) (up to 2 digits) From 1 - 99 as applicable

\* Tin/lead for type "Z", lead (Pb)-free for type "N"

**Historical Part Number Example: HLT-120-07Z 150  $\Omega$  10% J01 (will continue to be accepted)**

HLT-120	07Z	150 $\Omega$	10 %	J01
HISTORICAL MODEL	TERMINAL/FINISH	RESISTANCE VALUE	TOLERANCE	PACKAGING

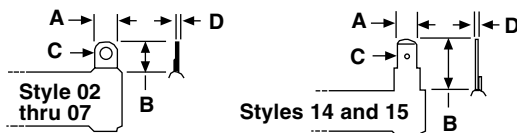
\* Pb containing terminations are not RoHS compliant, exemptions may apply

**DIMENSIONS**


MODEL	DIMENSIONS in inches [millimeters]								
	A (max.)	CORE DIMENSIONS			TERMINAL SETBACK ± 0.031 [± 0.79]	DISTANCE BETWEEN TERMINALS (REF.)	TERMINAL DESIGNATION		MOUNTING HARDWARE OPTIONS
		LENGTH ± 0.062 [± 1.59]	O.D.	I.D. ± 0.031 [± 0.79]			STANDARD	OPTIONAL	
HLT015	0.563 [14.29]	1.500 [38.10]	0.438 [11.11]	0.313 [7.94]	0.094 [2.38]	0.937 [23.80]	02Z	14N	101, 203, 301
HLT020	0.563 [14.29]	2.000 [50.80]	0.438 [11.11]	0.313 [7.94]	0.094 [2.38]	1.437 [36.50]	02Z	14N	101, 203, 301
HLT025	0.688 [17.46]	2.000 [50.80]	0.563 [14.29]	0.313 [7.94]	0.094 [2.38]	1.312 [33.32]	06Z	15N	101, 203, 301
HLT026	0.563 [14.29]	3.000 [76.20]	0.438 [11.11]	0.313 [7.94]	0.094 [2.38]	2.437 [61.90]	02Z	14N	101, 203, 301
HLT050	0.688 [17.46]	4.000 [101.60]	0.563 [14.29]	0.313 [7.94]	0.094 [2.38]	3.312 [84.12]	06Z	15N	101, 203, 301
HLT051	0.906 [23.02]	3.500 [88.90]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	2.75 [69.85]	06Z	15N	102, 206, 303
HLT055	(1)	3.500 [88.90]	(1)	(1)	(1)	2.968 [75.39]	09Z	16N	(1)
HLT060	0.906 [23.02]	4.000 [101.60]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	3.250 [82.55]	06Z	15N	102, 206, 303
HLT065	0.906 [23.02]	4.500 [114.30]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	3.750 [95.25]	06Z	15N	102, 206, 303
HLT070	(1)	4.750 [120.65]	(1)	(1)	(1)	4.218 [107.14]	09Z	16N	(1)
HLT080	1.313 [33.34]	4.000 [101.60]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	2.812 [71.42]	07Z	15N	103, 205, 303
HLT095	(1)	6.000 [152.40]	(1)	(1)	(1)	5.468 [138.89]	09Z	16N	(1)
HLT100	0.906 [23.02]	6.500 [165.10]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	5.750 [146.05]	06Z	15N	102, 206, 303
HLT120	1.313 [33.34]	6.000 [152.40]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	4.812 [122.23]	07Z	15N	103, 205, 303
HLT130	1.313 [33.34]	6.500 [165.10]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	5.312 [134.93]	07Z	15N	103, 205, 303
HLT160	1.313 [33.34]	8.000 [203.20]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	6.812 [173.03]	07Z	15N	103, 205, 303
HLT175	1.313 [33.34]	8.500 [215.90]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	7.312 [185.73]	07Z	15N	103, 205, 303
HLT225	1.313 [33.34]	10.500 [266.70]	1.125 [28.58]	0.750 [19.05]	0.219 [5.56]	9.312 [236.53]	07Z	15N	103, 205, 303

**Note**

(1) HLT-55, HLT-70 and HLT-95 are HL Flat style, see HL Flat data sheet for detail dimensions

**TERMINAL DIMENSIONS**


DIMENSION	TERMINAL TYPE						
	02	06	07	09	14	15	16
A	0.188 [4.76]	0.250 [6.35]	0.375 [9.53]	0.188 [4.76]	0.188 [4.76]	0.250 [6.35]	0.188 [4.76]
B	0.406 [10.32]	0.563 [14.29]	0.625 [15.88]	0.500 [12.70]	0.563 [14.29]	0.594 [15.08]	0.563 [14.29]
C	0.093 [2.36]	0.166 [4.22]	0.173 [4.39]	0.104 [2.64]	0.050 [1.27]	0.065 [1.65]	0.050 [1.27]
D	0.020 [0.51]	0.020 [0.51]	0.020 [0.51]	0.020 [0.51]	0.020 [0.51]	0.031 [0.79]	0.020 [0.51]

**MOUNTING HARDWARE**

HLT type resistors use same mounting hardware as standard HL type resistor, see HL data sheet for mounting hardware dimensions.

**MATERIAL SPECIFICATIONS**
**Element:** Copper-nickel alloy or nickel-chrome alloy, depending on resistance value

**Core:** Ceramic, steatite

**Coating:** Special high temperature silicone

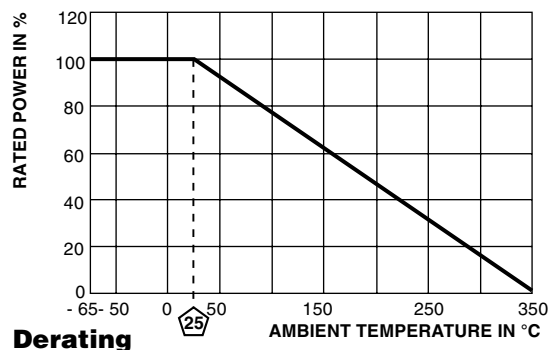
**Standard Terminals:** Model "Z" terminals are tinned steel

**Terminal Bands:** Steel

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

**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).





## Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.