



VISHAY INTERTECHNOLOGY, INC.



INDUSTRIAL WIREWOUND RESISTORS

Silicone Coated

HLxx








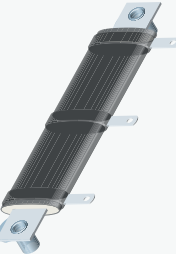

Industrial Wirewound Resistors

Silicone Coated

Key Features

- A wide range of high power ratings (3 W to 375 W)
- A wide resistance range (0.05 Ω to 645 k Ω)
- Low-/high-temperature performance (- 65 $^{\circ}\text{C}$ to + 350 $^{\circ}\text{C}$)
- Complete welded construction
- Excellent overload capability
- High-temperature silicone coating
- Excellent stability in operation
- Non-inductive styles available

Product	Global Model	Historical Model	Wattage	Resistance Range	Tolerance	RTC ppm/ $^{\circ}\text{C}$	Applications
HL (Tubular) 	HL011	HL-11	11	0.1 Ω – 70 k Ω	$\pm 5\%$, $\pm 10\%$	± 90 , ± 50 , ± 30	<ul style="list-style-type: none"> • Grid resistors • DC-DC converter • AC-DC inverters • High-voltage bleeder • Dynamic braking • Bias supply • Motor speed controls • Voltage divider networks • Capacitor charging/discharging regulation • Filament dropping • Voltage dropping • Electrical load • Crow-bar circuit • Current shunt
	HL012	HL-12	12	0.1 Ω – 58 k Ω			
	HL015	HL-15	15	0.1 Ω – 60 k Ω			
	HL020	HL-20	20	0.1 Ω – 95 k Ω			
	HL025	HL-25	25	0.1 Ω – 115 k Ω			
	HL026	HL-26	26	0.1 Ω – 170 k Ω			
	HL050	HL-50	50	0.1 Ω – 112 k Ω			
	HL051	HL-51	51	0.1 Ω – 124 k Ω			
	HL060	HL-60	60	0.1 Ω – 145 k Ω			
	HL065	HL-65	65	0.1 Ω – 170 k Ω			
	HL080	HL-80	80	0.1 Ω – 190 k Ω			
	HL100	HL-100	100	0.1 Ω – 260 k Ω			
	HL120	HL-120	120	0.1 Ω – 330 k Ω			
	HL130	HL-130	130	0.1 Ω – 380 k Ω			
HL160	HL-160	160	0.1 Ω – 470 k Ω				
HL175	HL-175	175	0.1 Ω – 500 k Ω				
HL225	HL-225	225	0.1 Ω – 645 k Ω				
HL (Flat) 	HL024	HL-24	30	0.1 Ω – 11 k Ω	$\pm 5\%$, $\pm 10\%$	± 90 , ± 50 , ± 30	
	HL035	HL-35	40	0.1 Ω – 26 k Ω			
	HL055	HL-55	55	0.1 Ω – 54 k Ω			
	HL070	HL-70	70	0.1 Ω – 77 k Ω			
	HL090	HL-90	95	0.1 Ω – 99.9 k Ω			
HLM (Miniature Flat) 	HLM010	HLM-10	10	0.1 Ω – 15 k Ω	$\pm 5\%$, $\pm 10\%$	± 90 , ± 50 , ± 30	
	HLM015	HLM-15	15	0.1 Ω – 26 k Ω			
	HLM020	HLM-20	20	0.1 Ω – 71 k Ω			
HLW (Leaded) 	HLW03	HLW-3	3	0.1 Ω – 6 k Ω	$\pm 5\%$, $\pm 10\%$	± 90 , ± 50 , ± 30	
	HLW05	HLW-5	5.25	0.1 Ω – 15 k Ω			
	HLW06	HLW-6	8	0.1 Ω – 20.5 k Ω			
	HLW10	HLW-10	10	0.1 Ω – 29 k Ω			
	HLW12	HLW-12	12	0.1 Ω – 58 k Ω			
	HLW15	HLW-15	15	0.1 Ω – 58 k Ω			
	HLW20	HLW-20	20	0.1 Ω – 95 k Ω			

Product	Global Model	Historical Model	Wattage	Resistance Range	Tolerance	RTC ppm/°C	Applications
HLZ (Ribbed) 	HLZ033	HLZ-33	35	0.05 Ω – 1.9 Ω	± 5 %, ± 10 %	± 90, ± 50, ± 30	<ul style="list-style-type: none"> • Grid resistors • DC-DC converter • AC-DC inverters
	HLZ090	HLZ-90	90	0.10 Ω – 5.7 Ω			
	HLZ099	HLZ-99	100	0.15 Ω – 6.1 Ω			
	HLZ105	HLZ-105	105	0.20 Ω – 7.4 Ω			
	HLZ110	HLZ-110	110	0.20 Ω – 8.6 Ω			
	HLZ140	HLZ-140	140	0.08 Ω – 9.0 Ω			
	HLZ165	HLZ-165	165	0.35 Ω – 13 Ω			
	HLZ220	HLZ-220	220	0.10 Ω – 16 Ω			
	HLZ240	HLZ-240	240	0.10 Ω – 18 Ω			
	HLZ275	HLZ-275	275	0.15 Ω – 23 Ω			
	HLZ300	HLZ-300	300	0.15 Ω – 25 Ω			
	HLZ375	HLZ-375	375	0.20 Ω – 32 Ω			
	HLT (Tapped) 	HLT015	HLT-15	15			
HLT020		HLT-20	20	0.1 Ω – 31 kΩ			
HLT025		HLT-25	25	0.1 Ω – 34 kΩ			
HLT026		HLT-26	26	0.1 Ω – 59 kΩ			
HLT050		HLT-50	50	0.1 Ω – 104 kΩ			
HLT051		HLT-51	51	0.1 Ω – 112 kΩ			
HLT055		HLT-55	55	0.1 Ω – 49 kΩ			
HLT060		HLT-60	60	0.1 Ω – 136 kΩ			
HLT065		HLT-65	65	0.1 Ω – 159 kΩ			
HLT070		HLT-70	70	0.1 Ω – 72 kΩ			
HLT080		HLT-80	80	0.1 Ω – 164 kΩ			
HLT090		HLT-90	95	0.1 Ω – 96 kΩ			
HLT100		HLT-100	100	0.1 Ω – 253 kΩ			
HLT120		HLT-120	120	0.1 Ω – 305 kΩ			
HLT130		HLT-130	130	0.1 Ω – 358 kΩ			
HLT160		HLT-160	160	0.1 Ω – 446 kΩ			
HLT175		HLT-175	175	0.1 Ω – 481 kΩ			
HLT225	HLT-225	225	0.1 Ω – 622 kΩ				
HLA (Adjustable) 	HLA012	HLA-12	12	1 Ω – 10 kΩ	± 5 %	± 90, ± 50, ± 30	
	HLA020	HLA-20	20	1 Ω – 18 kΩ			
	HLA025	HLA-25	25	1 Ω – 23 kΩ			
	HLA026	HLA-26	26	1 Ω – 31 kΩ			
	HLA050	HLA-50	50	1 Ω – 57 kΩ			
	HLA051	HLA-51	51	1 Ω – 95 kΩ			
	HLA060	HLA-60	60	1 Ω – 74 kΩ			
	HLA065	HLA-65	65	1 Ω – 130 kΩ			
	HLA080	HLA-80	80	1 Ω – 111 kΩ			
	HLA100	HLA-100	100	1 Ω – 132 kΩ			
	HLA120	HLA-120	120	1 Ω – 180 kΩ			
	HLA130	HLA-130	130	1 Ω – 192 kΩ			
	HLA160	HLA-160	160	1 Ω – 249 kΩ			
	HLA175	HLA-175	175	1 Ω – 398 kΩ			
	HLA225	HLA-225	225	1 Ω – 337 kΩ			



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