Vishay Huntington

## Wirewound Resistors, Commercial Power, Aluminum Housed, Chassis Mount



### FEATURES

 High volume product suitable for commercial applications



ROHS COMPLIANT

- Molded construction for total environmental protection
- Complete welded construction
- Available in non-inductive styles (special "NI") with Ayrton-Perry winding for lowest reactive components
- · Mounts on chassis to utilize heat-sink effect
- For industrial applications, please see RH/NH datasheet: <u>www.vishay.com/doc?30201</u>
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL	POWER RATING WITH STANDARD HEATSINK P <sub>25 °C</sub> W	POWER RATING WITHOUT STANDARD HEATSINK P <sub>25 °C</sub> W	RESISTANCE   RANGE   Ω   ± 5 %; ± 10 %	RESISTANCE   RANGE   (-NI)   Ω   ± 5 %; ± 10 %	WEIGHT (typical) g				
AH075	75	45	0.1 to 50K	5 to 100	80				
AH100	100	50	0.1 to 100K	5 to 200	110				
AH150	150	55	0.1 to 100K	5 to 500	166				
AH200	200	50	0.1 to 50K	5 to 500	435				
AH250	250	60	0.1 to 65K	5 to 500	500				
AH300	300	75	0.1 to 80K	5 to 500	615				

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	AH RESISTOR CHARACTERISTICS			
Temperature Coefficient	ppm/°C	Typical values: ± 100 std. for 1 $\Omega$ to 1 kΩ; 25 std. for > 1 kΩ			
Insulation Resistance	Ω	> 10 000 MΩ			
Operating Temperature Range	°C	-25 to +250			



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

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AH



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### **DIMENSIONS** in inches [millimeters]

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GLOBAL MODEL	DIMENSIONS in inches [millimeters]								
	A MAX.	B MAX.	C MAX.	D ± 0.012 [0.3]	E ± 0.012 [0.3]	F ± 0.012 [0.3]	G MAX.	Н МАХ.	I MAX.
AH075	1.97 [50]	2.8 [71]	1.89 [48]	1.14 [29]	1.46 [37]	0.17 [4.4]	0.46 [11.8]	1.02 [26]	0.16 [4.0]
AH100	2.6 [66]	3.54 [90]	1.89 [48]	1.38 [35]	1.46 [37]	0.17 [4.4]	0.46 [11.8]	1.02 [26]	0.16 [4.0]
AH150	3.86 [98]	4.92 [125]	1.89 [48]	2.28 [58]	1.46 [37]	0.17 [4.4]	0.46 [11.8]	1.02 [26]	0.16 [4.0]
AH200	3.54 [90]	5.71 [145]	2.87 [73]	1.38 [35]	2.25 [57.2]	0.21 [5.3]	0.81 [20.5]	1.77 [45]	0.22 [5.5]
AH250	4.33 [110]	6.5 [165]	2.87 [73]	1.75 [44.5]	2.25 [57.2]	0.21 [5.3]	0.81 [20.5]	1.77 [45]	0.22 [5.5]
AH300	5.12 [130]	7.09 [180]	2.87 [73]	2.05 [52]	2.25 [57.2]	0.26 [6.6]	0.81 [20.5]	1.77 [45]	0.22 [5.5]

GLOBAL MODEL	LIMITING ELEMENT		STANDARD		
	VOLTAGE (DC/AC <sub>RMS</sub> )	(AC <sub>PK</sub> )	AREA (cm²)	THICKNESS (mm)	TERMINAL TYPE
AH075	1400	5000	1000	3	Lugged
AH100	1900	5000	1000	3	Lugged
AH150	2500	5000	1000	3	Lugged
AH200	1900	5000	3750	3	Threaded
AH250	2200	5000	4800	3	Threaded
AH300	2500	5000	5800	3	Threaded

#### Note

<sup>(1)</sup> It is recommended that a heatsink compound be applied between the resistor and heatsink surface

#### **TEMPERATURE VS. POWER**



## DERATING



Note

• Typical at 25°C

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