

Wirewound Resistors, Commercial Power, Aluminum Housed, Chassis Mount


FEATURES

- High volume product suitable for commercial applications
- 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: www.vishay.com/doc?0201
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


**RoHS
COMPLIANT**

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	POWER RATING WITH STANDARD HEATSINK $P_{25\text{ }^\circ\text{C}}$ W	POWER RATING WITHOUT STANDARD HEATSINK $P_{25\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE Ω $\pm 5\% ; \pm 10\%$	RESISTANCE RANGE Ω $\pm 1\%$	RESISTANCE RANGE (-NI) Ω $\pm 5\% ; \pm 10\%$	RESISTANCE RANGE (-NI) Ω $\pm 1\%$	WEIGHT (typical) g
AH075	75	45	0.1 to 50K	10 to 10K	5 to 100	10 to 100	80
AH100	100	50	0.1 to 100K	10 to 10K	5 to 200	10 to 200	110
AH150	150	55	0.1 to 100K	10 to 10K	5 to 500	10 to 500	166
AH200	200	50	0.1 to 50K	10 to 10K	5 to 500	10 to 500	435
AH250	250	60	0.1 to 65K	10 to 10K	5 to 500	10 to 500	500
AH300	300	75	0.1 to 80K	10 to 10K	5 to 500	10 to 500	615

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	AH RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/ $^\circ\text{C}$	Typical values: ± 100 std. for $1\ \Omega$ to $1\ \text{k}\Omega$; 25 std. for $> 1\ \text{k}\Omega$
Insulation Resistance	Ω	$> 10\ 000\ \text{M}\Omega$
Operating Temperature Range	$^\circ\text{C}$	-25 to +250

GLOBAL PART NUMBER INFORMATION													
Global Part Numbering example: AH0754R125JE66													
A	H	0	7	5	4	R	1	2	5	J	E	6	6
GLOBAL MODEL			RESISTANCE VALUE			TOLERANCE CODE			PACKAGING		SPECIAL		
AH075 (see Standard Electrical Specifications Global Model column for options)			R = decimal K = thousand 1R500 = 1.5 Ω 1K500 = 1.5 k Ω			F = 1.0 % J = 5.0 % K = 10.0%			E66 = lead (Pb)-free, cardboard separator pack		NI = non-inductive (dash number) from 1 to 999 as applicable		

DIMENSIONS in inches [millimeters]


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.	H MAX.	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]	0.14 [3.5]
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]	0.14 [3.5]
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]	0.14 [3.5]
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]	0.27 [6.75]
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]	0.27 [6.75]
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]	0.27 [6.75]

GLOBAL MODEL	LIMITING ELEMENT VOLTAGE (DC/AC _{RMS})	DIELECTRIC STRENGTH (AC _{PK})	STANDARD HEATSINK ⁽¹⁾		TERMINAL TYPE
			AREA (cm ²)	THICKNESS (mm)	
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

⁽¹⁾ 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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