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

Pb-free

RoHS COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	POWER RATING WITH STANDARD HEATSINK $P_{25\,°C}$ W	POWER RATING WITHOUT STANDARD HEATSINK $P_{25\,°C}$ W	RESISTANCE RANGE Ω ± 5 %; ± 10 %	RESISTANCE RANGE Ω ± 1 %	RESISTANCE RANGE (-NI) Ω ± 5 %; ± 10 %	RESISTANCE RANGE (-NI) Ω ± 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/°C	Typical values: ± 100 std. for 1 Ω to 1 kΩ; 25 std. for > 1 kΩ
Insulation Resistance	Ω	> 10 000 MΩ
Operating Temperature Range	°C	-25 to +250

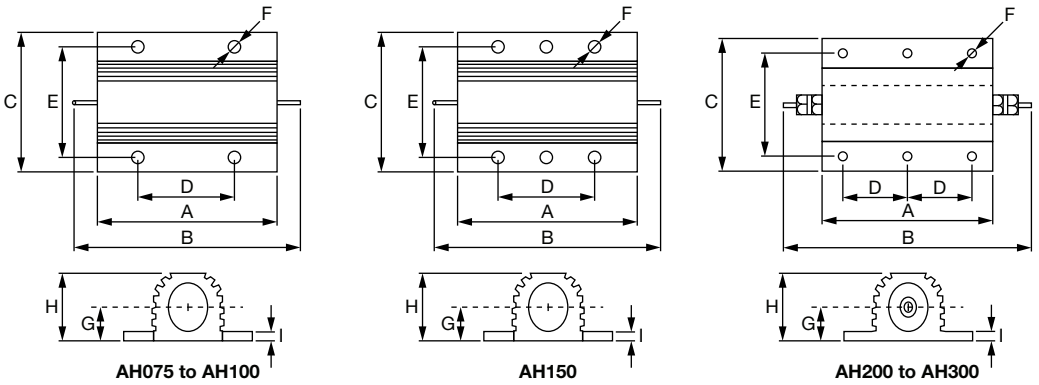
GLOBAL PART NUMBER INFORMATION

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 kΩ	**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]



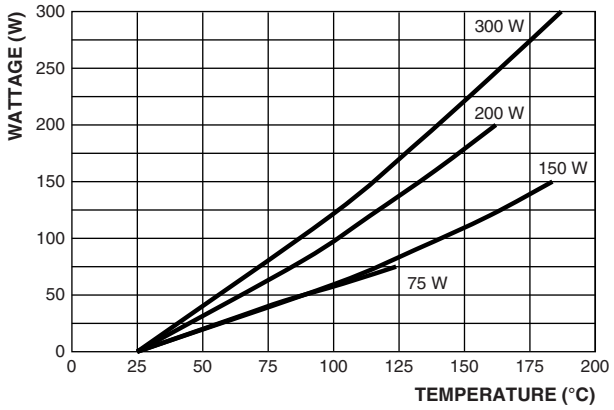
GLOBAL MODEL	DIMENSIONS in inches [millimeters]								
	A MAX.	B MAX.	C MAX.	D ± 0.012 [0.3]	E ± 0.012 [0.3]	F ± 0.012 [0.3]	G MAX.	H MAX.	I MAX.
AH075	1.97 [50]	2.8 [71]	1.89 [48]	1.14 [29]	1.46 [37]	0.17 [4.4]	0.46 [11.8]	1.02 [26]	0.14 [3.5]
AH100	2.6 [66]	3.54 [90]	1.89 [48]	1.38 [35]	1.46 [37]	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

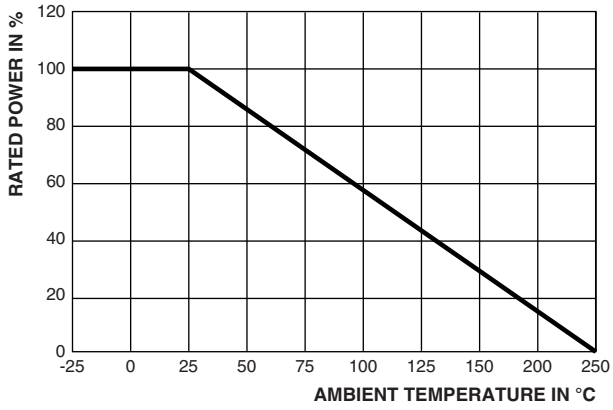
Note

(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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