

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


**FEATURES**

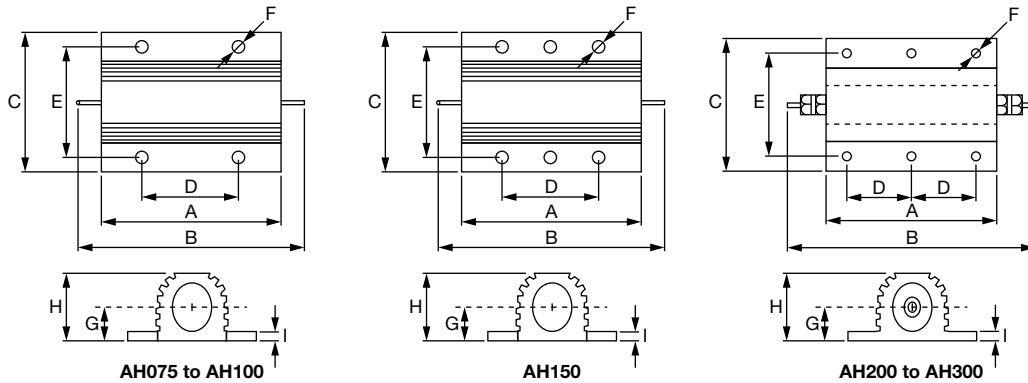
- High volume product suitable for commercial applications
- Molded construction for total environmental protection
- Complete welded construction
- Available in non-inductive styles (special “NI”) with Ayrton-Perry winding for lowest reactive components
- Mounts on chassis to utilize heat-sink effect
- For industrial applications, please see RH/NH datasheet: [www.vishay.com/doc?0201](http://www.vishay.com/doc?0201)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS  
COMPLIANT**

| STANDARD ELECTRICAL SPECIFICATIONS |   |  |  |   |  |   |                       |
|------------------------------------|---|--|--|---|--|---|-----------------------|
| GLOBAL MODEL                       | POWER RATING WITH STANDARD HEATSINK<br>$P_{25\text{ }^\circ\text{C}}$ W | POWER RATING WITHOUT STANDARD HEATSINK<br>$P_{25\text{ }^\circ\text{C}}$ W | RESISTANCE RANGE<br>$\Omega$<br>$\pm 5\% ; \pm 10\%$ | RESISTANCE RANGE<br>$\Omega$<br>$\pm 1\%$ | RESISTANCE RANGE (-NI)<br>$\Omega$<br>$\pm 5\% ; \pm 10\%$ | RESISTANCE RANGE (-NI)<br>$\Omega$<br>$\pm 1\%$ | WEIGHT (typical)<br>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: $\pm 100$ std. for $1\ \Omega$ to $1\ \text{k}\Omega$ ; 25 std. for $> 1\ \text{k}\Omega$ |
| Insulation Resistance       | $\Omega$              | $> 10\ 000\ \text{M}\Omega$   |
| 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   |   |   |
| <b>AH075</b><br>(see Standard Electrical Specifications Global Model column for options) |   |   | <b>R</b> = decimal<br><b>K</b> = thousand<br><b>1R500</b> = 1.5 $\Omega$<br><b>1K500</b> = 1.5 k $\Omega$ |   |   | <b>F</b> = 1.0 %<br><b>J</b> = 5.0 %<br><b>K</b> = 10.0% |   |   | <b>E66</b> = lead (Pb)-free, cardboard separator pack |   | <b>NI</b> = non-inductive (dash number) from <b>1</b> to <b>999</b> as applicable |   |   |

**DIMENSIONS** in inches [millimeters]


| GLOBAL MODEL | DIMENSIONS in inches [millimeters] |            |           |                     |                     |                     |             |           |             |
|--------------|------------------------------------|------------|-----------|---------------------|---------------------|---------------------|-------------|-----------|-------------|
|              | A MAX.                             | B MAX.     | C MAX.    | $\pm 0.012$ [0.3] D | $\pm 0.012$ [0.3] E | $\pm 0.012$ [0.3] F | 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 <sub>RMS</sub> ) | DIELECTRIC STRENGTH (AC <sub>PK</sub> ) | STANDARD HEATSINK <sup>(1)</sup> |                | TERMINAL TYPE |
|--------------|--|---|----------------------------------|----------------|---------------|
|              |  |   | AREA (cm <sup>2</sup> )          | 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**

<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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