

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. | ± 0.012 [0.3] D | ± 0.012 [0.3] E | ± 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 _{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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