

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]

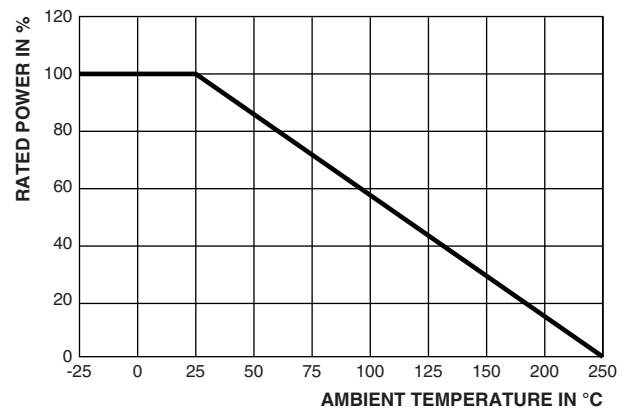

| GLOBAL MODEL | DIMENSIONS in inches [millimeters] | | | | | | | | |
|--------------|------------------------------------|------------|-----------|-----------------|-----------------|-----------------|-------------|-----------|-------------|
| | A MAX. | B MAX. | C MAX. | D ± 0.012 [0.3] | E ± 0.012 [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



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А