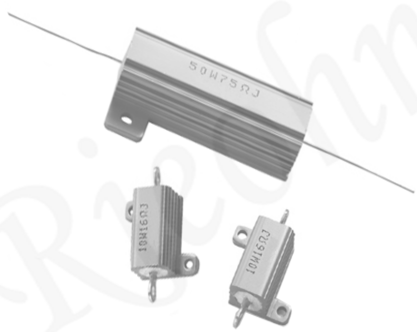
# Aluminum Housed Resistors




## FEATURES

| | |
|---|---|
| Power Rating | 5W, 10W, 25W, 50W, 80W, 100W, 250W |
| Resistance to lerance | ±0.25%, ±0.5%, ±1%, ±5%, ±10% |
| T.C.R. | ±200ppm/°C |

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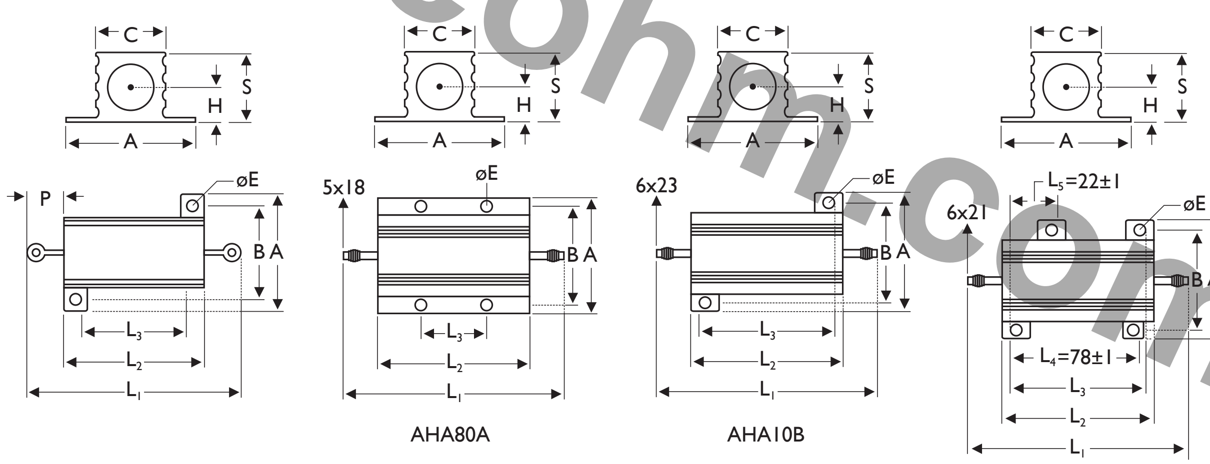
## DIMENSIONS

Unit: mm




AHA500 / AHP500
AHA10A / AHP10A
AHA25A / AHP25A
AHA50A / AHP50A

AHA80A

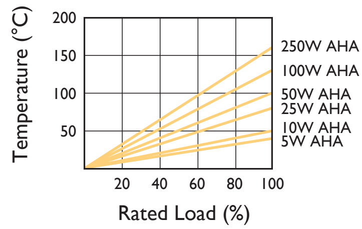
AHA10B

AHA25B

### DIMENSION

| Normal | $L_1$ | $L_2$ | $L_3$ | A | B | C | øE | S | H | P |
|---|---|---|---|---|---|---|---|---|---|---|
| AHA500 | 25±2 | 15±1 | 10±1 | 16.5±1 | 12.5±1 | 8.5±1 | 2±0.3 | 8±1 | 4±0.5 | 5±2 |
| AHA10A | 32±2 | 19±1 | 14±1 | 20±1 | 15.5±1 | 10.5±1 | 2±0.3 | 10±1 | 5±0.5 | 6±2 |
| AHA25A | 47±2 | 27±1 | 18±1 | 27±1 | 19±1 | 15±1 | 3.2±0.3 | 15.5±1 | 7±0.5 | 10±2 |
| AHA50A | 70±2 | 50±1 | 39±1 | 29±1 | 21±1 | 15±1 | 3.2±0.3 | 15.5±1 | 7±0.5 | 10±2 |
| AHA80A | 102±2 | 66±1 | 35±1 | 47±1 | 37±1 | 28±1 | 4.5±0.3 | 25±1 | 12±0.5 | - |
| AHA10B | 135±2 | 89±1 | 69±1 | 70±1 | 48±1 | 46±1 | 5±0.3 | 44.5±1 | 19.5±0.5 | - |
| AHA25B | 155±2 | 114±1 | 98±1 | 77±1 | 64±1 | 53±1 | 5±0.3 | 55.5±1 | 25±0.5 | - |

## TEMPERATURE RISE




## ELECTRICAL CHARACTERISTICS

| STYLE | AHA500 | AHA10A | AHA25A | AHA50A | AHA80A | AHA10B | AHA25B |
|---|---|---|---|---|---|---|---|
| Power Rating at 70°C | 5W | 10W | 25W | 50W | 80W | 100W | 250W |
| Dielectric Withsanding Voltage | 1,000V | | | 2,000V | | 4,500V | |
| Resistance Range | 0.1 Ω - 100 Ω | | | | 0.1 Ω - 3K Ω | | |
| Operating Temp. Range | -55°C to +275°C | | | | | | |
| Temperature Coefficient | ±200ppm/°C | | | | | | |

Note: Special value is available on request.

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## ENVIRONMENTAL CHARACTERISTIC

| PERFORMANCE TEST | TEST METHOD | | APPRAISE |
|---|---|---|---|
| Short Time Overload | JIS-C-5202 5.5 | 2.5 times RCWV for 5 Sec. | ±0.5%+0.05 Ω |
| Dielectric Withstanding Voltage | JIS-C-5202 5.7 | in V-Block for 60 Sec. | By type |
| Temperature Coefficient | JIS-C-5202 5.2 | -55°C to +275°C | By type |
| Insulation Resistance | JIS-C-5202 5.6 | in V-Block | >100M Ω |
| Solderability | JIS-C-5202 6.5 | 260±5°C for 5±0.5 Sec. | 95% Min. coverage |
| Resistance to Solvent | JIS-C-5202 6.9 | IPA for 1 Min. with ultrasonic | No deterioration of coatings and markings |
| Terminal Strength | JIS-C-5202 6.1.2 | Pull test (30 Sec. Min.): 5W: 1kg, 10W: 2.3kg, 25 - 50W: 4.5kg<br>Torque test (5 - 15 Sec.): 100W: 2.7N, 250W: 3.7N | ±0.2%+0.05 Ω |
| Load Life in Humidity | JIS-C-5202 7.9 | 40±2°C, 90 - 95% RH at 1/10 × Power Rating for 1,000 Hr.<br>(1.5 Hr. on, 0.5 Hr. off) | ±0.5%+0.05 Ω |
| Load Life | JIS-C-5202 7.10 | 25°C at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off) | ±1.5%+0.05 Ω |
| Temperature Cycling | JIS-C-5202 7.4 | -55°C ⇨ Room Temp. ⇨ +155°C ⇨ Room Temp. (5 cycles) | ±1.0%+0.05 Ω |
| Resistance to Soldering Heat | JIS-C-5202 6.4 | 350±10°C for 3±0.5 Sec. | ±1.0%+0.05 Ω |

Note: Rated Continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$