

Aluminum Case High Power Wire-Wound Resistors

Performance Specification

| | |
|---------------------------------|---|
| Temperature Coefficient | ±350PPM/°C |
| Short Time Overload | ±(5.0% + 0.05Ω) Max, with no evidence of mechanical damage. |
| Dielectric Withstanding Voltage | No evidence of mechanical damage, arcing or insulation breakdown. |
| Temperature Cycling | ±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage. |
| Humidity (Steady State) | ±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage. |
| Load Life in Humidity | ±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage. |
| Load Life | ±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage. |

Ordering Procedure: Ex.: HAWR, 220W,+/-10%, 180Ω

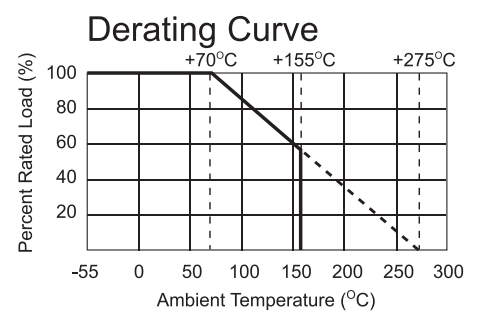
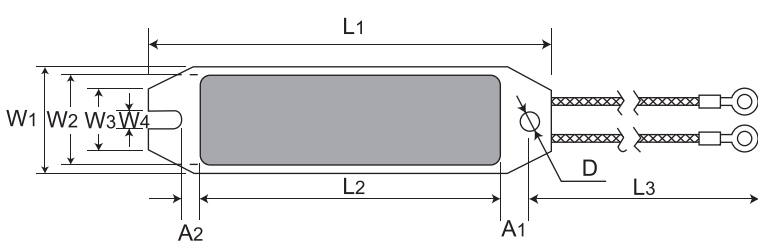
| | | | | | | | | | | | | | |
|----------------------|----------|----------|----------|---|----------|---|----------|----------|--|----------|----------|----------|----------|
| H | A | W | R | B | 0 | K | 0 | 1 | 8 | 1 | 2 | 2 | 0 |
| Type: HAWR = HAWR | | | | Connector style: A0 = Terminal type B0 = Cable type | | Resistance Value: • E-24 series: 1 st digit is "0" 2 nd & 3 rd digits are the significant figures of the resistance 4 th indicates the number of zeros: "J" ~ 0.1, "K" ~ 0.01 Ex.: 4.7Ω ~ 47J, 4.7KΩ ~ 472 | | | Wattage: 060 = 60W 080 = 80W 100 = 100W 120 = 120W 220 = 220W | | | | |
| | | | | | | Tolerance: K = ±10% | | | | | | | |

Features

- Safety flameproof construction
- Excellent Surge characteristics to resist large current without damage.
- Consistent reliability performance



HAWR Type



| Type | L1±1 | L2±1 | L3±2 | A1±0.5 | A2±0.5 | W1±0.5 | W2±0.2 | W3±0.2 | W4±0.2 | D±0.2 | Resistance Range |
|-----------|------|------|------|--------|--------|--------|--------|--------|--------|-------|------------------|
| HAWR 60W | 100 | 80 | 300 | 5 | 5 | 30 | 28 | 14 | 4.5 | 4.5 | 1Ω ~ 2KΩ |
| HAWR 80W | 150 | 123 | 300 | 8 | 6 | 34 | 30 | 16 | 4.5 | 4.5 | 1Ω ~ 3KΩ |
| HAWR 100W | 150 | 127 | 300 | 6.5 | 6.5 | 34 | 32 | 16 | 4.5 | 4.5 | 1Ω ~ 3KΩ |
| HAWR 120W | 182 | 166 | 300 | 6 | 6 | 42 | 40 | 20 | 4.5 | 4.5 | 1Ω ~ 13KΩ |
| HAWR 220W | 230 | 191 | 400 | 14.5 | 14.5 | 64 | 56 | 47 | 4.5 | 4.5 | 1Ω ~ 20KΩ |



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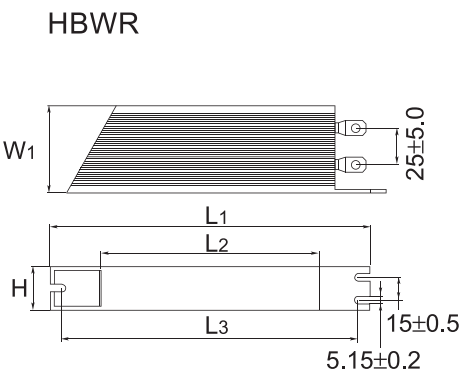
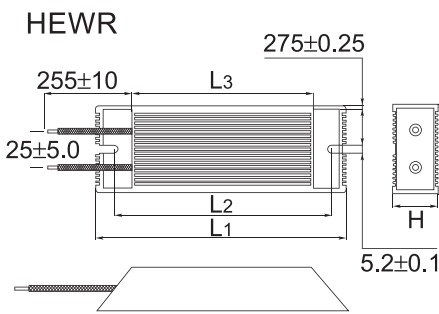
| | |
|---------------------------------|---|
| Temperature Coefficient | ±350PPM/°C |
| Short Time Overload | ±(2%+0.05Ω) Max, with no evidence of mechanical damage. |
| Dielectric Withstanding Voltage | No evidence of mechanical damage. |
| Temperature Cycling | ±(2%+0.05Ω) Max, with no evidence of mechanical damage. |
| Humidity (Steady State) | ±(5%+0.05Ω) Max, with no evidence of mechanical damage. |
| Load Life in Humidity | ±(5%+0.05Ω) Max, with no evidence of mechanical damage. |
| Load Life | ±(5%+0.05Ω) Max, with no evidence of mechanical damage. |

Ordering Procedure: Ex.: HEWR, 200W, +/- 5%, 180Ω

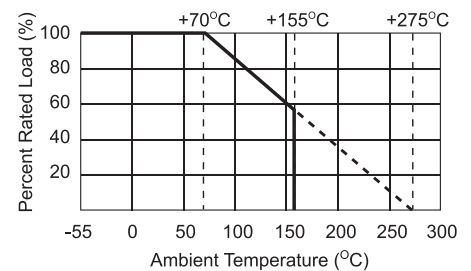
| | | | |
|--|--|--|--|
| <p>H E W R B 0 J 0 1 8 1 2 0 0</p> <p>Type: HEWR = HEWR HBWR = HBWR</p> | <p>Connector style: A0 = Terminal type B0 = Cable type</p> | <p>Resistance Value: • E-24 series: 1st digit is "0" 2nd & 3rd digits are the significant figures of the resistance 4th indicate the number of zeros: "J" ~ 0.1, "K" ~ 0.01 Ex.: 4.7Ω ~ 47J, 4.7KΩ ~ 472</p> | <p>Wattage: 200 = 200W 300 = 300W 400 = 400W 500 = 500W 600 = 600W A00 = 1000W</p> |
| <p>Tolerance: J = ±5% K = ±10%</p> | | | |

Features

- High Power and Excellent Load Life Stability
- Strongly resistance to moisture solvent and insulation
- High Surge resistance item available
- Application: Breaking resistor, Elevator



Derating Curve



| Type | L1±2 | | L2±2 | | L3±2 | | W1±2 | | H±2 | | Resistance Range |
|-------|------|------|------|------|------|------|------|------|------|------|------------------|
| | HEWR | HBWR | HEWR | HBWR | HEWR | HBWR | HEWR | HBWR | HEWR | HBWR | |
| 200W | 165 | 190 | 150 | 160 | 125 | 165 | 60 | 30 | 30 | 60 | 1Ω ~ 7KΩ |
| 300W | 215 | 240 | 200 | 210 | 175 | 215 | 60 | 30 | 30 | 60 | 1Ω ~ 8KΩ |
| 400W | 265 | 290 | 250 | 260 | 225 | 265 | 60 | 30 | 30 | 60 | 0.5Ω ~ 10KΩ |
| 500W | 335 | 360 | 270 | 330 | 295 | 335 | 60 | 30 | 30 | 60 | 0.5Ω ~ 12KΩ |
| 600W | 335 | 360 | 270 | 330 | 295 | 335 | 60 | 30 | 30 | 60 | 0.5Ω ~ 12KΩ |
| 1000W | 400 | - | 385 | - | 340 | - | 100 | - | 50 | - | 0.5Ω ~ 15KΩ |



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