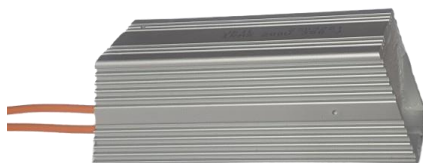


# IRHS series (100W ~250W)

## Metal Clad Wire Wound Resistors for Automobile



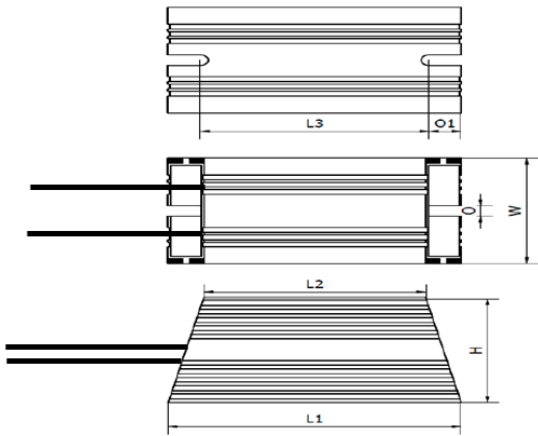
**Automotive Grade  
AEC-Q200**

- Small Size Perfect Capacity
- Excellent Stability
- Impact Resistance
- Good Heat Dissipation
- Easy Installation
- Custom Leads Available
- Power Ratings from 100W to 250 Watts
- Tolerances of 1%, 5%, or 10%
- Compact Packaging

### ■ SPECIFICATIONS

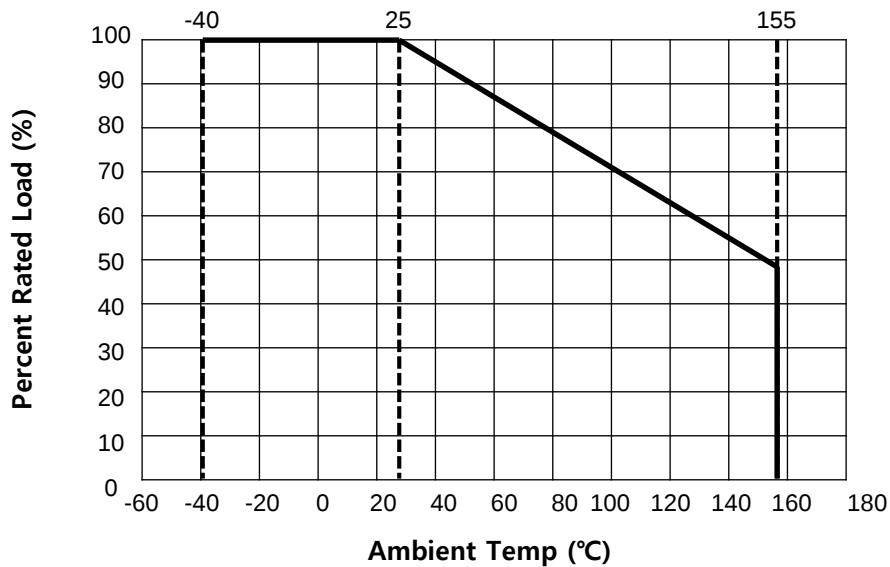
| ITEM                  | SPECIFICATION |                                               |
|-----------------------|---------------|-----------------------------------------------|
| Temperature Range     |               | - 55 ~ 155°C                                  |
| Power Rating          |               | 100W~250W                                     |
| Resistance Range      |               | 5Ω ~ 200Ω                                     |
| TCR                   |               | Max ± 220ppm/°C                               |
| Operating Voltage     |               | ≥1,000V                                       |
| Insulation Resistance |               | 1MΩ                                           |
| Dielectric Strength   |               | 2,500VAC                                      |
| Maximum Current       |               | 15A                                           |
| Short Time Overload   | ±(2%+0.05Ω)   | 10 x for 5sec                                 |
| Mechanical Vibration  | ±(1%+0.05Ω)   | 100G ,6ms Half Sine, 3Time /Axis, Total 6Axis |
| Short Duration        | ±(2%+0.05Ω)   | 200ms. @15A                                   |
| Shot Circuit          | ±(2%+0.05Ω)   | Pulse Duration : 200ms . Cycle Time : 2sec    |
|                       |               | 1 Time : 5Cycles . Total : 5 Times            |
| Load Life             | ±(3%+0.05Ω)   | 200,000 cycles                                |
| Terminations          |               | Wire length 200±10mm . High Voltage Cable     |

## ■ DIMENSIONS



| TYPE | DIMENSIONS(mm) |      |      |       |       |       |        | Weight(g) |
|------|----------------|------|------|-------|-------|-------|--------|-----------|
|      | L1±1           | L2±1 | L3±1 | W±0.3 | H±0.3 | O±0.2 | O1±0.5 |           |
| 100W | 82             | 62   | 64   | 44    | 44    | 4.3   | 9      | 260       |
| 120W | 91             | 71   | 73   | 44    | 44    | 4.3   | 9      | 290       |
| 150W | 102            | 82   | 84   | 44    | 44    | 4.3   | 9      | 350       |
| 200W | 123            | 103  | 105  | 44    | 44    | 4.3   | 9      | 420       |
| 250W | 145            | 125  | 127  | 44    | 44    | 4.3   | 9      | 460       |

## ■ POWER DERATING CURVE



## ■ HOW TO ORDER

|      |              |            |                         |
|------|--------------|------------|-------------------------|
| IRHS | 100W         | 100Ω       | J                       |
| TYPE | POWER RATING | RESISTANCE | TOLERANCE<br>±1%<br>±5% |

[www.resistors.co.kr](http://www.resistors.co.kr)

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