AP735 35W TO-263 Power Resistor GRCOL

- Power Dissipation 35 watts with heat sink
- Low inductance
- D²PAK housing
- Electrically isolated from backplate
- TCR Options ±100 ppm/°C
- RoHS Compliant



Characteristics

Tolerance (Code): \pm 1% (F), \pm 5% (J)

Value range: R02 to 130K (with standard resistance values)

Power rating: 35W at 25°C case temperature

Temperature coefficient: ±100ppm/°C
Thermal resistance: 3.7°C/W

Inductance: 0.1µH maximum

Operating voltage: $\sqrt{P*R}$ with a maximum of 250V

Dielectric strength: 2kVac Insulation resistance: $10G\Omega$

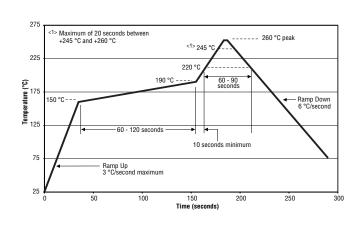
Operating temperature: -55°C to 155°C

Electrical Specifications

| Parameter | Specification |
|--|---------------|
| Short term overload (2x Pr for R < 2Ω , 1.6 x Pr for R $\geq 2\Omega$, V < 1.5x operating voltage) | ΔR ±0.25% |
| Load life (1000 hours at rated power) | ΔR ±1.0% |
| Thermal shock (-55°C to 155°C, 5 cycles) | ΔR ±0.5% |
| Resistance to soldering heat (10 sec at 270°C) | ΔR ±0.5% |
| Vibration (20 G 10 - 2000Hz .06" D.A) | ΔR ±0.25% |
| Moisture sensitivity level | 1 |

Soldering Profile

Power dissipation is 3.5W at an ambient temperature of 25°C when mounted on a double sided copper using FR4, $70\mu m$ of copper 39x30x1.6mm



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The information contained herein does not form part of a contract and is subject to change without notice. ARCOL operate a policy of continual product development, therefore, specifications may change.

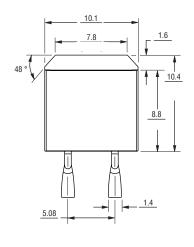
It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

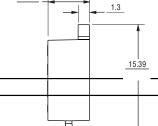
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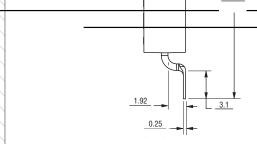
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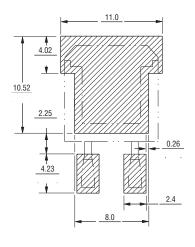
Dimensions (mm)



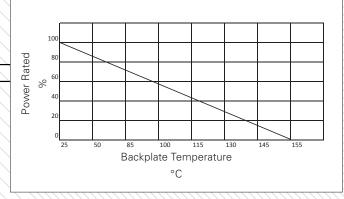




Recommended pad layout



Derating Curve



Ordering Procedure

Standard Resistor: Series, Resistance Value, Tolerance, Packaging options T&R - TR or Tubes - blank

e.g. AP735 8R2 J TR / AP735 2R F

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