## AP735 35W TO-263 Power Resistor GRCCL

- Power Dissipation 35 watts with heat sink
- Low inductance
- D<sup>2</sup>PAK 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:  $\pm 100 \text{ppm/}^{\circ}\text{C}$ Thermal resistance:  $3.7^{\circ}\text{C/W}$ 

Inductance: 0.1µH maximum

Operating voltage: √P\*R with a maximum of 250V

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

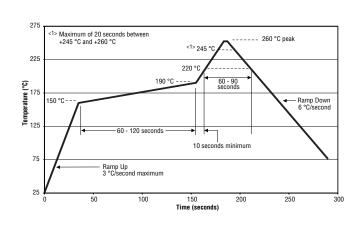
Operating temperature: -55°C to 155°C

#### **Electrical Specifications**

Parameter	Specification
Short term overload (2x Pr for R < $2\Omega$ , 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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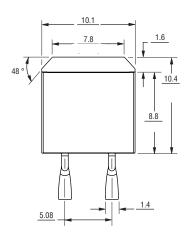
It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

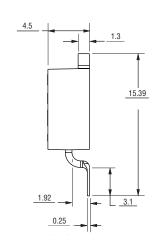
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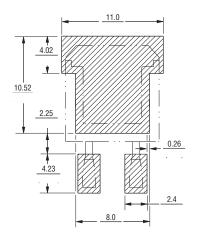


### Dimensions (mm)

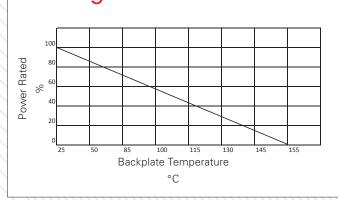




### Recommended pad layout



### **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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