AP725 20W TO-263 Power Resistor

- Power Dissipation 20 watts with h/s
- Low inductance
- D²PAK housing
- Electrically isolated from backplate
- TCR Options ±100 ppm/°C
- RoHS Compliant

Characteristics

| Tolerance (Code): | ± 1% (F), ± 5% (J) |
|--------------------------|---|
| Value range: | R02 to 130K (with standard resistance values) |
| Power rating: | 20W at 25°C case temperature |
| Temperature coefficient: | ±100ppm/°C |
| Thermal resistance: | 6.5°C/W |
| Inductance: | 0.1µH maximum |
| Operating voltage: | $\sqrt{P*R}$ with a maximum of 250V |
| Dielectric strength: | 2kVac |
| Insulation resistance: | 10GΩ |
| Operating temperature: | -55°C to 155°C |

Electrical Specifications

| Parameter | Specification |
|---|---------------|
| Short term overload (2x Pr for R < 2 Ω , 1.6 x Pr for R ≥ 2 Ω , 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 2.8W at an ambient temperature of 25°C when mounted on a double sided copper using FR4, 70 μ m of copper 39x30x1.6mm



For more information and ordering, please consult www.arcolresistors.com



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Standard part numbers

| AP725R1F | AP7255RF | AP72525RF | AP72575RF |
|-----------|-----------|-----------|------------|
| AP725R5F | AP72510RF | AP72530RF | AP725100RF |
| AP7251RF | AP72512RF | AP72533RF | AP725150RF |
| AP7251R5F | AP72515RF | AP72547RF | AP725200RF |
| AP7251R5F | AP72515RF | AP72547RF | AP725200RF |
| AP7252RF | AP72520RF | AP72568RF | AP7251KF |
| | | | |

Recommended pad layout

Derating Curve



Ordering Procedure

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

<u>e.g.</u> AP725 8R2 J TR / AP725 2R F

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