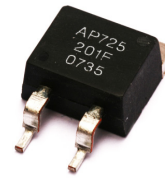


AP725 20W TO-263 Power Resistor

- Power Dissipation 20 watts with h/s
- Low inductance
- D²PAK housing
- Electrically isolated from backplate
- TCR Options ± 100 ppm/ $^{\circ}\text{C}$
- RoHS Compliant



Characteristics

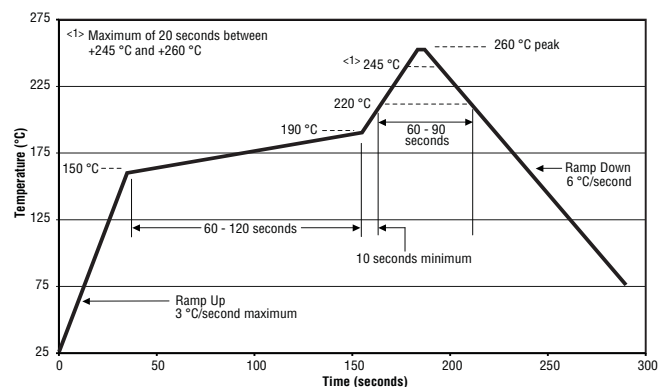
Tolerance (Code):	$\pm 1\%$ (F), $\pm 5\%$ (J)
Value range:	R02 to 130K (with standard resistance values)
Power rating:	20W at 25°C case temperature
Temperature coefficient:	± 100 ppm/ $^{\circ}\text{C}$
Thermal resistance:	6.5°C/W
Inductance:	0.1 μH maximum
Operating voltage:	$\sqrt{P \cdot R}$ with a maximum of 250V
Dielectric strength:	2kVac
Insulation resistance:	10G Ω
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 $\geq$ 2 Ω , V < 1.5x operating voltage)	$\Delta R \pm 0.25\%$
Load life (1000 hours at rated power)	$\Delta R \pm 1.0\%$
Thermal shock (-55°C to 155°C , 5 cycles)	$\Delta R \pm 0.5\%$
Resistance to soldering heat (10 sec at 270°C)	$\Delta R \pm 0.5\%$
Vibration (20 G 10 - 2000Hz .06" D.A)	$\Delta R \pm 0.25\%$
Moisture sensitivity level	1

Soldering Profile

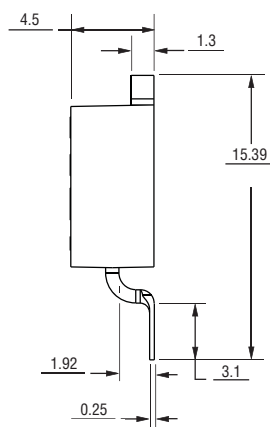
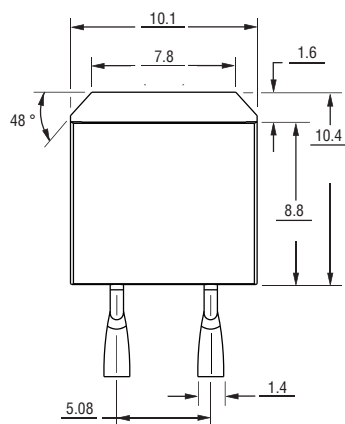
Power dissipation is 2.8W at an ambient temperature of 25°C when mounted on a double sided copper using FR4, 70 μm of copper 39x30x1.6mm



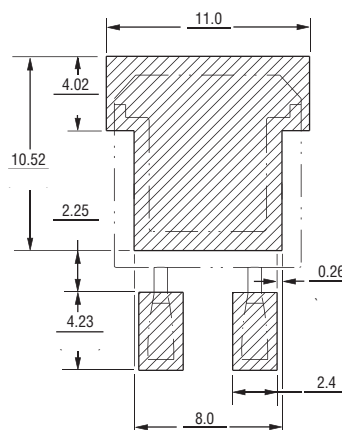
For more information and ordering, please consult
www.arcolresistors.com

AP725 20W TO-263 Power Resistor

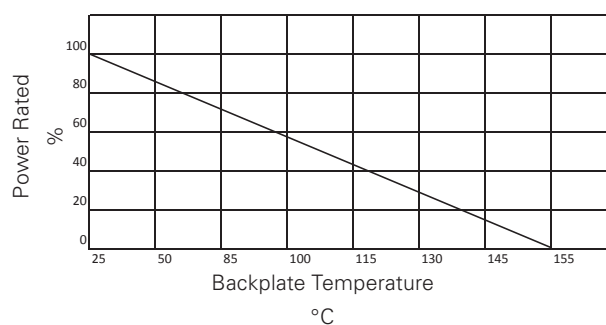
Dimensions (mm $\pm$ 0.38)



Recommended pad layout



Derating Curve



Ordering Procedure

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

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

Standard part numbers

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

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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.