AP101 100W TO-247 High Power Resistors FRCOL

- 100 watts at 25°C case temperature heat sink mounted
- TO-247 style power package
- Single screw mounting to heat sink
- Moulded case for protection
- Electrically isolated case
- Non-Inductive design
- RoHS Compliant

Characteristics

± 1% (F), ± 5% (J), ± 10% (K)
-65°C to +175°C
\pm 50ppm/°C to \pm 300ppm/°C (re to ohmic values), referenced to 25°C, Δ R taken at +105°C
700V max
1800Vac 60 seconds, $\Delta R\pm 0.15\%$
10G min
0.9 Nm
25°C, rated at 3.5W
$\Delta R \pm 1.0\%$, Rated power, 2,000 hours
90% min. coverage, 245±5°C for 3 seconds
$\Delta R\pm0.5\%$,1.5 times rated power and V (dc) \leq 1.5VMax. for 5 seconds
ΔR±0.5%, -10°C - +65°C, RH>90%, cycle 240 hours
ΔR±0.5%, -65°C - 150°C, 100 cycles
$\Delta R\pm0.2\%$, (Pull Test) 2.4N
$\Delta R \pm 0.4\%$, 20g peak

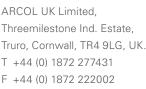
Ordering Procedure

Standard Resistor: Series, Resistance Value, Tolerance Code, TCR

eg: AP101 10K J 50ppm

Electrical Specifications

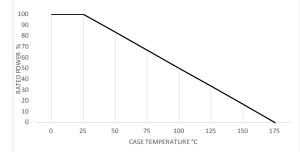
Value Range	Tolerance Pref. Value Range	TCR (ppm/°C)
R05 - 1R	± 1% (F)	Not specified
> 1R - 3R	E12, E24, E96	± 300ppm/°C
> 3R - 10R	± 5% (J)	± 100ppm/°C, ± 200ppm/°C
> 10R - 100K	E12, E24 ± 10% (K) E12	± 50ppm/°C, ± 100ppm/°C, ± 200ppm/°C



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Derating Curve



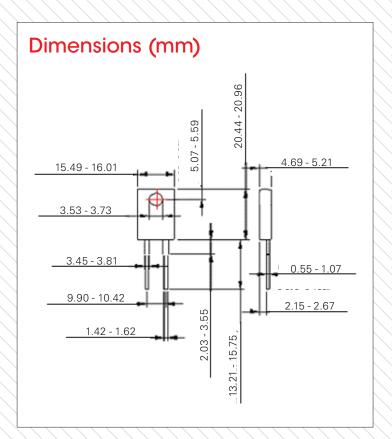
The case temperature is to be used for the definition of the applied power limit The case temperature measurement must be made with a thermocouple contacting the centre of the component mounted on the designed heat sink Thermal grease should be applied properly

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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 M8340107K1152FGD03
 M8340107K2701GCD03
 M8340107M2002GCD03
 M8340108K1000GCD03
 M8340108K5601GCD03

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 M8340109K1002JCD03
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 M8340109K5101GGD03
 FHV05010M0FKRB
 MOX-2

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 MP850-3.00-1%
 MS220-1K-1%
 hte24511kf
 SM-SP093
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 M8340105K3002GGD03

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 M8340107K2001GGD03
 M8340107K5101GGD03
 M8340107K5600GGD03
 M8340108K4990FGD03

 M8340108K49R9FGD03
 M83401008M10R0GGD03
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 M8340109K5601GCD03
 MOX-SP020

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 M8340102M4701GBD04
 M8340102K1002GAD04
 M8340102K1002GAD04

 M8340109K2002GGD03
 M8340107K1003GGD03
 M8340107M5100GGD03
 OE1305
 WMHP100-R22J
 M8340104K39R2FCD03

 M8340106MA012JHD03
 M8340107K1003GGD03
 MS126-9.09K-0.1%
 MS126-249K-0.1%
 MS-221-82R5