

20/11/20

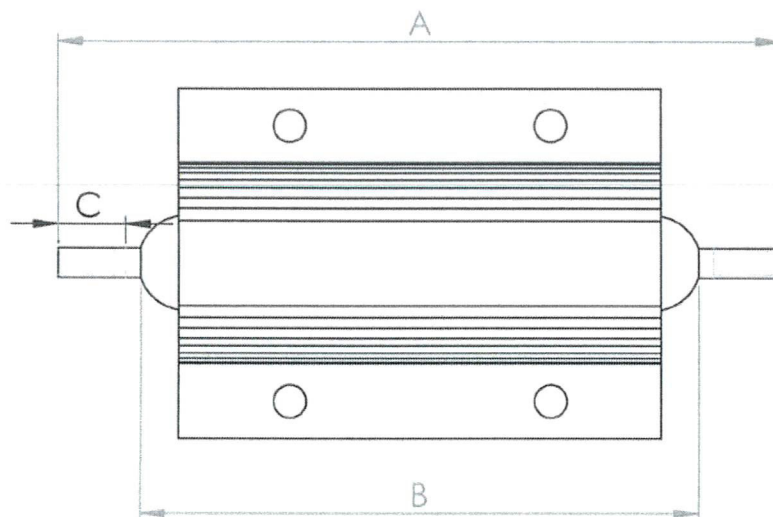
Product Change Notice – E4 Change

To whom it may concern,

ARCOL UK Limited are notifying their customers that a dimensional difference is being made to the ARCOL products being manufactured using E4 pins – These being the HS75 E4, HS100 E4 and HS150 E4 product families.

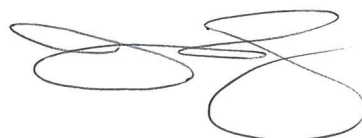
The changes are being made to bring the E4 dimension A in line with the E6 product family. This also impacts Dimension C. – See table below for details.

This change has already been communicated out to our current customers of E4 product, with no issues raised. This PCN is a formal notice of the changes already agreed.



Product	DIM A MAX	DIM B MAX	DIM C +/-0.20
HS75 E4 prior to change	82.50	61.0	10.00
HS100 E4 prior to change	99.20	77.5	10.00
HS150 E4 prior to change	132.00	110.0	10.00
HS75 E4 post change	92.50	61.0	14.00
HS100 E4 post change	109.20	77.5	14.00
HS150 E4 post change	142.00	110.0	14.00

Jayne Thorley
 EHS & Quality Manager



AP101 100W TO-247 High Power Resistors **ARCOL**

- 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

Tolerance (Code):	± 1% (F), ± 5% (J), ± 10% (K)
Operating temperature:	-65°C to +175°C
Temperature coefficient:	± 50ppm/°C to ± 300ppm/°C (re to ohmic values), referenced to 25°C, ΔR taken at +105°C
Operating voltage:	700V max
Dielectric strength:	1800Vac 60 seconds, ΔR±0.15%
Insulation resistance:	10G min
Maximum torque:	0.9 Nm
Free air:	25°C, rated at 3.5W
Load Life	ΔR±1.0%, Rated power, 2,000 hours
Solderability	90% min. coverage, 245±5°C for 3 seconds
Momentary Overload	ΔR±0.5%, 1.5 times rated power and V (dc) ≤ 1.5VMax. for 5 seconds
Moisture resistance	ΔR±0.5%, -10°C - +65°C, RH>90%, cycle 240 hours
Thermal Shock	ΔR±0.5%, -65°C - 150°C, 100 cycles
Terminal Strength	ΔR±0.2%, (Pull Test) 2.4N
Vibration, High Frequency	ΔR±0.4%, 20g peak

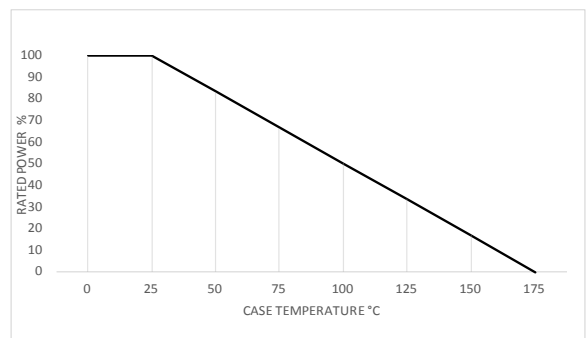
Ordering Procedure

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) E12, E24	± 100ppm/°C, ± 200ppm/°C
> 10R - 100K	± 10% (K) E12	± 50ppm/°C, ± 100ppm/°C, ± 200ppm/°C

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

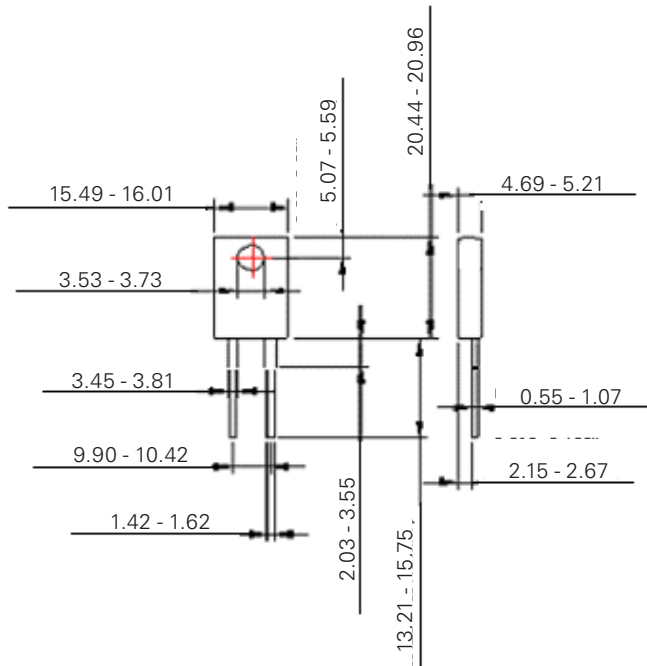
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The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, specifications may change.

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.

Dimensions (mm)



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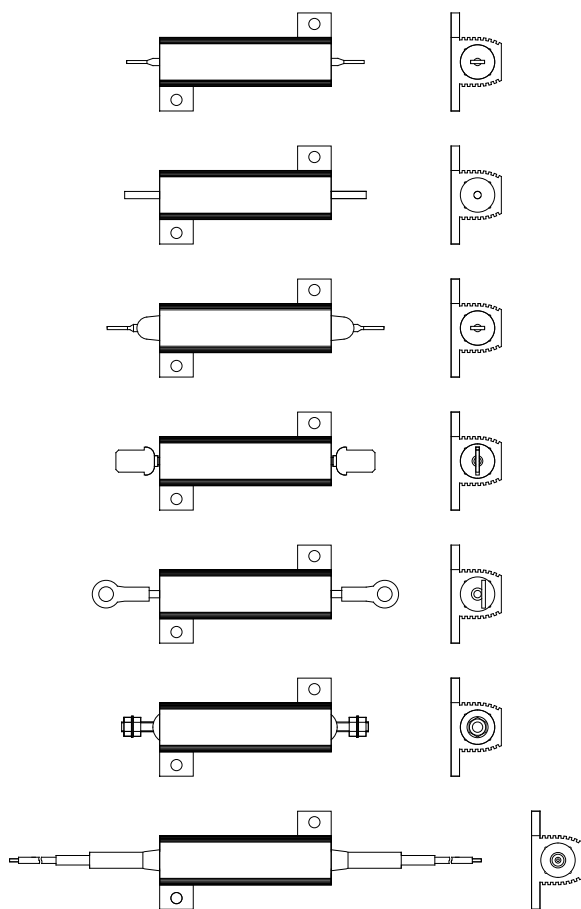
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HS Series Resistor Terminations



The HS Range of Aluminium Housed Resistors has been designed for a variety of solder, cable, threaded and fast on terminations. If you need a special termination design for your application, please contact us for advice.

For electrical and mechanical specifications please refer to HS Series datasheet - Aluminium Housed Power Resistors.

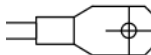


HS ___ - Standard Pressed Termination
Available on HS10-50, 75-150

HS ___ J - Unpressed Termination
Available on HS10-50, 75-150

HS ___ X - Extended Mouldings
To increase creepage and strike distance between terminal and housing. Available on HS10-50, HS75-150
Also available on HS200-300 E6 using stud mounted resin disk

HS ___ M - 6.35mm Spade Termination
Amp style push on connection available on HS75 -150

HS ___ M alternative construction
available on HS10-15, HS25-50 

HS ___ Drawing No. - Attached Termination To Drawing
Available on HS10-50, HS75-150

HS ___ E - Threaded Stud Termination
Available on HS25-50 E3, HS75-150 E4 or E6, HS200-300 E6

HS ___ F - Leaded Termination
Leads fitted and insulated externally after moulding
Available with standard lead lengths on HS10-50 150mm, HS75-150 150mm, HS200-300 300mm
Extra length available on request at extra charge

For other special terminations, high voltage, low inductance windings, water cooled type HSW600 etc. please contact Arcol sales.

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