AP836 35 Watts TO-220 High Power Resistors

A high power TO-220 style resistor package designed for high frequency emitter circuits in switching power supplies. Also used in voltage regulation and low energy pulse loading.

- 35 Watts at 25°C case temperature on heat sink
- Single screw mounting to heat sink
- Moulded case for proctection and easy to mount
- Non-inductive design
- · Electrically isolated case
- RoHS Compliant



Characteristics

Power rating: 2.50 Watts in free air

 Operating voltage:
 350V max

 Dielectric strength:
 1800Vac

 Insulation resistance:
 10GΩ min

 Working temperature:
 -65°C to 150°C

Temperature coefficient: As specified, referenced to 25°C, ΔR taken at +105°C

Short time overload: $\Delta R \pm 0.3\%$, 2 times rated power with applied voltage not to exceed 1.5 times maximum continuous

operating voltage for 5 seconds

Load life: $\Delta R \pm 1.0\%$, 2000 hours at rated power

Damp heat with load: $\Delta R \pm 0.5\%$, $40 \pm 2^{\circ}C$, 90 - 95% R.H max working voltage for 1000 hours with 1.5 hours "ON" and

0.5 hours "OFF"

Solderability: 90% min coverage, 245 \pm 5°C for 3 seconds Thermal shock: $\Delta R \pm 0.3\%$, -65°C - 150°C, 100 cycles

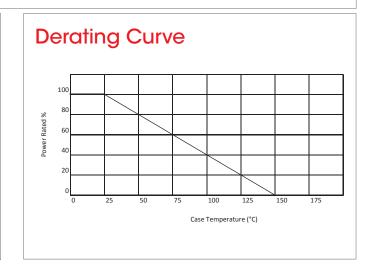
Terminal strength: $\Delta R \pm 0.2\%$, 2.4 N Vibration and high frequency: $\Delta R \pm 0.2\%$, 20g peak

Electrical Specifications

Resistance Value Range	Available Tolerance & Pref. Value Ranges	Available TCR
R05 - 1R	J (±5%) K (±10%)	Not specified
1R02 - 3R	F (±1%) , J (±5%) , K (±10%)	±300ppm/°C
3R01 - 10R		±100ppm/°C (std.) ±200ppm/°C
10R2 - 10K	D (±0.5%) F (±1%) J (±5%) K (±10%)	±50ppm/°C ±100ppm/°C (std.) ±200ppm/°C

Preferred value ranges:

F (±1%) - E96, J (±5%) - E24, K (±10%) - E12



For more information and ordering, please consult

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Page 1 of 2 2/13.18

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Dimensions (mm) 14.50 - 15.00 4.06 - 4.82 9.91 - 10.41 1.20 - 1.40 55-5.85 - 6.35 0.40 - 0.70 1.17 - 1.37 4.83 - 5.33 2.05 - 2.52 0.70 - 0.86

Standard part numbers

AP8361RJ	AP83615RJ	AP836150RJ
AP8362R2J	AP83622RJ	AP836330RJ
AP8363R3J	AP83633RJ	AP836470RJ
AP8364R7J	AP83647RJ	AP8361KJ
AP8365R6J	AP83651RJ	AP8362K4J
AP8367R5J	AP83675RJ	AP8364K7J
AP83610RJ	AP836100RJ	AP83610KJ

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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.

Page 2 of 2 2/13.18

