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: $10G\Omega$ 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

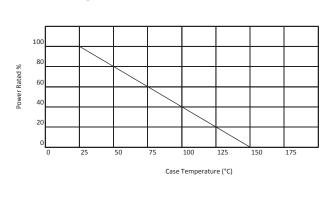
Electrical Specifications

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 ±200ppm/°C
10R2 - 10K	D (±0.5%) F (±1%) J (±5%) K (±10%)	±50ppm/°C ±100ppm/°C ±200ppm/°C

Preferred value ranges:

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

Derating Curve



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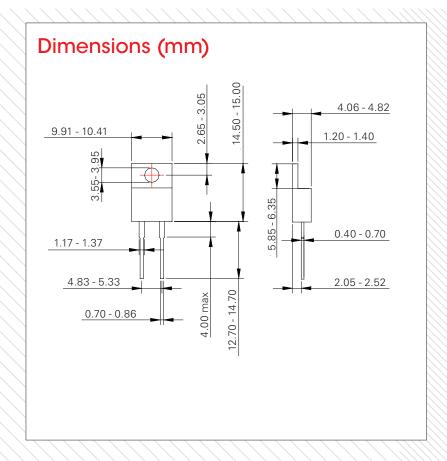
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It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

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Mouser Electronics

Authorized Distributor

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Ohmite:

AP836 5R6 J 100PPM AP836 5K6 J 100PPM AP836 5R J 100PPM AP836 1K5 J 100PPM AP836 4R7 J 100PPM AP836 180R F 50PPM AP836 82R F 50PPM AP836 50R F 50PPM AP836 3K9 J 100PPM AP836 1K2 J 100PPM AP836 150R J 100PPM AP836 5R6 F 100PPM AP836 470R F 50PPM AP836 2R5 J AP836 18R J 100PPM AP836 R8 J AP836 1R5 F AP836 15R J 100PPM AP836 2R2 F AP836 680R F 50PPM AP836 1R F AP836 R5 J AP836 3R3 J 100PPM AP836 4K7 F 50PPM AP836 R06 J AP836 6R8 J 100PPM AP836 4R7 F 100PPM AP836 12R F 50PPM AP836 25R J 100PPM AP836 390R J 100PPM AP836 1R8 J AP836 560R F 50PPM AP836 470R J 100PPM AP836 180R J 100PPM AP836 2K7 J 100PPM AP836 820R F 50PPM AP836 18R F 50PPM AP836 50R J 100PPM AP836 6K8 J 100PPM AP836 1R8 F AP836 4K7 J 100PPM AP836 3K3 F 50PPM AP836 2R5 F AP836 R05 J AP836 22R J 100PPM AP836 390R F 50PPM AP836 1K J 100PPM AP836 27R F 50PPM AP836 270R J 100PPM AP836 6K8 F 50PPM AP836 3R3 F 100PPM AP836 2K2 F 50PPM AP836 3K9 F 50PPM AP836 2K7 F 50PPM AP836 10K F 50PPM AP836 R7 J AP836 R1 J AP836 3R9 J 100PPM AP836 2K2 J 100PPM AP836 39R J 100PPM AP836 47R F 50PPM AP836 10R J 100PPM AP836 2R7 J AP836 150R F 50PPM AP836 5K F 50PPM AP836 6R8 F 100PPM AP836 R3 J AP836 8R2 F 100PPM AP836 10R F 100PPM AP836 1K5 F 50PPM AP836 R2 J AP836 8R2 J 100PPM AP836 330R J 100PPM AP836 1K8 F 50PPM AP836 8K2 F 50PPM AP836 47R J 100PPM AP836 100R F 50PPM AP836 5K6 F 50PPM AP836 680R J 100PPM AP836 R07 J AP836 100R J 100PPM AP836 8K2 J 100PPM AP836 22R F 50PPM AP836 220R J 100PPM AP836 33R J 100PPM AP836 120R F 50PPM AP836 12R J 100PPM AP836 1K F 50PPM AP836 68R F 50PPM AP836 27R J 100PPM AP836 R08 J AP836 2R7 F AP836 220R F 50PPM AP836 56R J 100PPM AP836 39R F 50PPM AP836 330R F 50PPM AP836 1K8 J 100PPM AP836 270R F 50PPM AP836 3R9 F 100PPM AP836 120R J 100PPM