

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 protection 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: | ΔR ±0.3%, 2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds |
| Load life: | ΔR ±1.0%, 2000 hours at rated power |
| Damp heat with load: | ΔR ±0.5%, 40 ±2°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 ±5°C for 3 seconds |
| Thermal shock: | ΔR ±0.3%, -65°C - 150°C, 100 cycles |
| Terminal strength: | ΔR ±0.2%, 2.4 N |
| Vibration and high frequency: | ΔR ±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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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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Dimensions (mm)



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