PR100 SERIES 14



PR100-101 Thick film power resistors PR102-103



## *TEATURES*

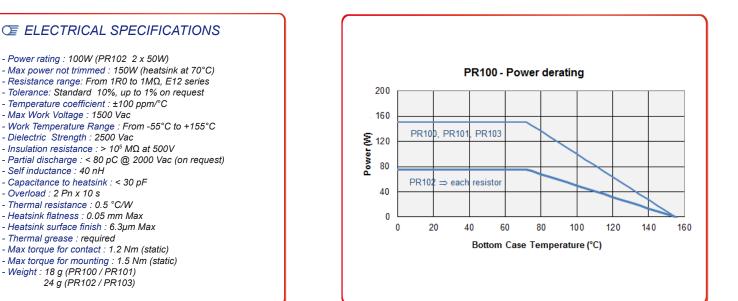
- Self inductance : 40 nH

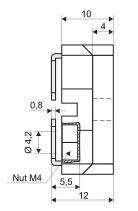
- Overload : 2 Pn x 10 s

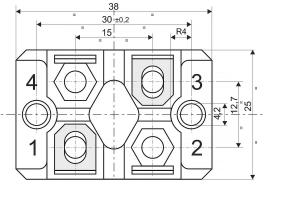
- Thermal grease : required

Very good ratio Power / Volume. Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One model for power up to 150W. Suited to UL94-V0 application. SOT227 configuration.









- 3 **PR100** PR101 2 R 2 PR102 R 3 PR103 3

#### Connection and mounting screws supplied with the resistor













## PR250 SERIES

Thick film power resistors

PR250 PR250T

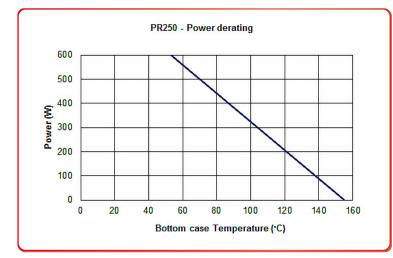
15

### THICK FILM POWER RESISTORS PR250

## **GE FEATURES**

Very good ratio Power / Volume Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One models for power applications up to 500W. Suited to ULV94-V0 application.





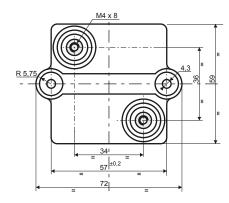
## **CE ELECTRICAL SPECIFICATIONS**

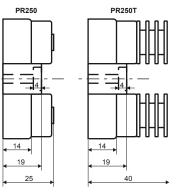
-Power rating: 250W (heatsink at 100°C) -Resistance range: From 1R0 to 1MΩ, É12 series -Tolerance: Standard 10%, up to 1% on request -Temperature coefficient: ±100 ppm/°C -Max Work. Voltage: 5000 Vac -Work Temp. Range: From -55°C to +155°C -Dielectric Strength: 7000 Vac (12000 Vac x PR250T) -Insulation resistance: > 10<sup>5</sup> MΩ at 500V -Creep distance: 42 mm (65 mm x PR250T) -Air gap distance: 16 mm (29mm x PR250T) -Partial discharge: < 10 pC @ 5000 Vac -Self inductance: 80 nH -Parallel capacitance: 40 pF -Capacitance to heatsink: < 120 pF -Overload : 4 Pn x 10 s -Thermal resistance: 0.15 °C/W -Heatsink flatness: 0.05 mm Max -Heatsink surface finish: 6.3 µm Max -Thermal grease: Required N> 1W/mk -Max torque for contacts: 2Nm (static)

- -Max torque for mounting: 2Nm (static)
- -Weight: 100 g (130 gr for PR250T)

-Options: For values R039 <R< 1R0 is available Metal Foil type PR500M







"Connection and mounting screws are supplied with the resistor All dimensions are in mm"





PR254



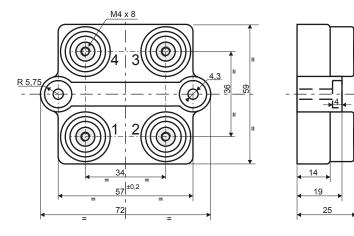
## **GE FEATURES**

Very good ratio Power / Volume

Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One models for power applications up to 500W. Suited to ULV94-V0 application.



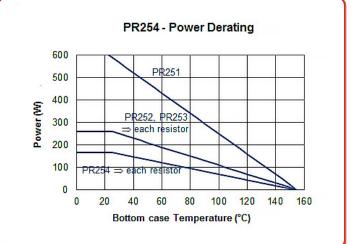
PR254

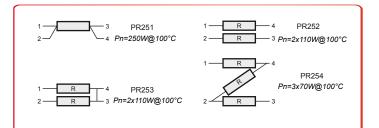


"Connection and mounting screws are supplied with the resistor All dimensions are in mm"

## **CE ELECTRICAL SPECIFICATIONS**

-Power rating: 250W (heatsink at 100°C) -Resistance range: From 1R0 to 1MΩ, E12 series -Tolerance: Standard 10%, up to 1% on request -Temperature coefficient: ±100 ppm/°C -Max Work. Voltage: 5000 Vac -Work Temp. Range: From -55°C to +155°C -Dielectric Strength: 7000 Vac -Insulation resistance: > 10<sup>5</sup> MΩ at 500V -Creep distance: 42 mm -Air gap distance: 16 mm -Partial discharge: < 10 pC @ 5000 Vac -Self inductance: 80 nH -Parallel capacitance: 40 pF -Capacitance to heatsink: < 120 pF -Overload : 4 Pn x 10 s -Thermal resistance: 0.15 °C/W -Heatsink flatness: 0.05 mm Max -Heatsink surface finish: 6.3 µm Max -Thermal grease: Required N> 1W/mk -Max torque for contacts: 2Nm (static) -Max torque for mounting: 2Nm (static) -Weight: 125 g









# PR600 SERIES 17

Thick film power resistors PR600



## **TEATURES**

Very good ratio Power / Volume Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One models for power applications up to 600W. Suited to UL94-V0 application

## **CE ELECTRICAL SPECIFICATIONS**

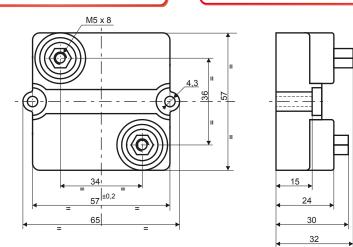
Power rating: 600W @ 85°C Bottom case Temperature For power greater than 600W please consult Technical Dept. Resistance Range: from 1R0 to 1M0 Resistance Values: E12 series For out of range or not std. values please contact ATE Electronics Technical Dept.

Tolerance: Standard ±10%. Available on request up to ±1%

Temperature coefficient: ±150 ppm/°C Work Temperature Range: from -55°C to +155°C Max Working Voltage:  $5kV, \sqrt{P\times R}$ Dielectric strength: 7kVac x 60" Insulation resistance: > 10<sup>5</sup> MΩ at 500V Creep distance: 42mm Air Gap distance: 16mm Partial Discharge: < 10pC @ 5kVac Self Inductance: 80nH Parallel Capacitance: 40pF Capacitance to heatsink: < 110pF Overload: 1kW x 10" Thermal resistance: 0,115°C/W Heatsink flatness: 0,05mm max Heatsink surface finish: 6,3µm max Thermal grease: Required,  $\lambda > 1W/mK$ Max Torque for contacts: 2Nm (static) Max Torque for mounting: 2Nm (static) Weight: 95g







"Connection and mounting screws are supplied with the resistor All dimensions are in mm"







PR800 Thick film power resistors



#### *TEATURES*

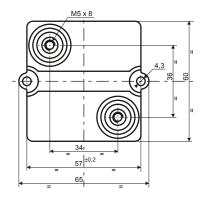
Very good ratio Power / Volume Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. Materials are ULV94-V0 listed

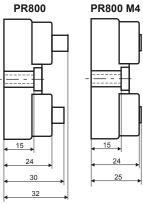
#### **CE** ELECTRICAL SPECIFICATIONS

-Power rating: 800W @ 85°C Bottom case Temperature For power greater than 800W please consult Technical Dept. -Resistance Range: from 1R0 to 1M0--Resistance Values: E12 series For out of range or not std. values, please contact ATE Electronics Technical Dept. -Tolerance: Standard ±10%. -Temperature coefficient: ±150ppm/°C -Work Temperature Range: from -55°C to +155°C -Max Working Voltage: 5,2kV ,  $V = \sqrt{P \times R}$ -Dielectric strength: 7kVac x 60" (12kVac on request) -Insulation resistance: > 10<sup>s</sup> MΩ at 500V -Creep distance: 42mm -Air Gap distance: 16mm -Partial Discharge: < 10pC @ 5kVac -Self Inductance: 80nH (typical) -Parallel Capacitance: 40pF (typical) -Capacitance to heatsink: 150pF (typical) -Overload: 1kW x 10" -Thermal resistance: 0,11°C/W -Heatsink flatness: 0,05mm max -Heatsink surface finish: 6,3µm max -Thermal grease: Required,  $\lambda > 1W/mK$ -Max Torque for contacts: 2Nm (static) -Max Torque for mounting: 2Nm (static) -Weight: 100g









"Connection and mounting screws are supplied with the resistor All dimensions are in mm"

