## Thick film resistors series FPA 600 Data sheet



<100nH measured at 100kHz

1kW - 10 sec.

### ARCOL

600 Watt resistor designed for various applications including power transmission, traction, variable speed drives, power supplies, robotics, motor control and power control devices. Suitable for liquid or air cooled heat sink systems

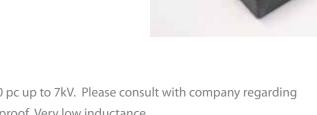
 Power Dissipation 600 watts at max 70°C bottom case temp

 Value Range R5 to 100K Tolerance Options ±5% or ±10% TCR Options ±150ppm/°C 5000Vdc Maximum Voltage • Dielectric Strength 12000Vdc

Partial discharge 4Kvrms <10 pc up to 7kV. Please consult with company regarding Special Features

application areas. Vibration proof. Very low inductance

. RoHS Compliant.



#### Characteristics

Tolerance

600W at 70°C effective ambient Power rating Partial discharge 4kV rms. <10pC R5 to 1M 7kV rms.

Series inductance

Short term overload

Resistance range Voltage proof test

± 100ppm / °C (25°C - 100°C) Parallel capacitance 40pF Temperature coefficient

 $\pm$  1% (F) -  $\pm$  10% (K) -  $\pm$  5% (J) Std

100pF Maximum working voltage 5kV rms Capacitance / mass

Working temperature range -55°C to +150°C 6kV/50Hz test time 10sec. Thermal resistance Rth 0.115°C/W Dielectric strength

Creepage distance 40mm Mounting screw / max. torque M4, normal / 1.8Nm

M5, normal / 2Nm Contacts / max. torque

### **Specifications**

Short time overload 1,000W / 10 sec 0.4%

Humidity 56 days / 40°C / Steady state 95%  $\Delta R \pm 0.25\%$ Temperature -55 / +125 / 5 cycling cycles ΔR ±0.20% Shock 40g / 4,000 times  $\Delta R \pm 0.25\%$ Vibrations 2-500Hz / 10g  $\Delta R \pm 0.25\%$ Load life Pn 30 min. on / 1,000cyl 30 min. off  $\Delta R \pm 0.40\%$ 

Tel.: +41 26 497 50 60 Widap AG eMail: info@widap.ch CH-3185 Schmitten Fax: +41 26 497 50 69 Internet: www.widap.ch Edition 17.01

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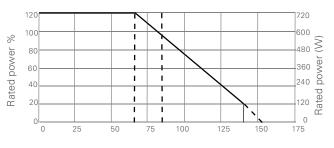
## Data sheet







# **Derating Curve**

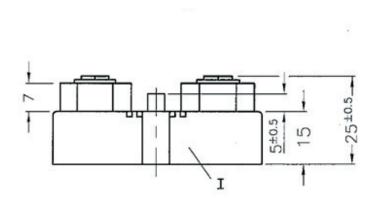


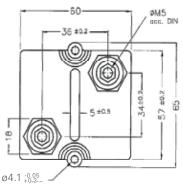
Case temperature (°C)

# **Ordering Procedure**

<u>Standard resistor:</u> Specify series, watts, ohmic value, tolerance code. e.g FPA600 10R J

### Dimensions (mm)





Other terminal dimensions available, contact ARCOL for more information  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($