

Ultra-High-Power Resistors

Series UPT 600

600 W Resistor · US Patent-No. 5,355,281

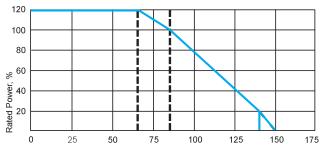
For variable speed drives, power supplies, control devices, robotics, motor control and other power devices, the easy mounting fixture guarantees an auto-calibrated pressure to the cooling plate of about 120 to 160 N. Materials in accordance with UL94-V0

Specifications

- Resistance values: 0.5 Ω to 1 MΩ
- Resistance tolerance: ±5% to ±10%, tighter tolerances are available upon request, with the reduction of the max. power/pulse rating. Please ask your local representative!
- Temperature coefficient: ±150 ppm/°C (others upon request)
- Maximum working voltage: 5,000 V DC, higher voltage upon request, not exceeding max. power
- Short time overload: 1,000 W at 70°C for 10sec., ΔR = 0.4% max. (for conf. 2 and 3)
- Power rating: up to 600 W at 85°C bottom case temperature, see configurations
- Electric strength voltage: 6 kVrms, 50 Hz, up to 12 kVrms or 23 kV DC upon special request.
- Dielectric strength between R1–R2: >5kV DC
- Single shot voltage: up to 12 kV norm wave (1.5/50 μsec)
- Partial discharge: 4 KVrms, <10 pC, up to 7 kV upon special request
- Insulation resistance: 10 GΩ min. at 500 V
- Inductance: –80 nH
- Capacity/mass: -110 pF
- Capacity/parallel: -40 pF
- Operating temperature: -55°C to +150°C
- Mounting max. torque for contacts: 2 Nm
- Mounting max. torque: 1.8 Nm, M4 screws
- For pulse power details, please see datasheet UXP-300, same as UXP-600, valid for configuration 2 and 3.
 For other configurations, please contact EBG.

Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
Α	59.2	60.8	2.331	2.394
В	35.8	36.2	1.409	1.425
С	13.5	14.5	0.531	0.571
D	33.8	34.2	1.331	1.346
E	57.0	58.0	2.244	2.283
F	64.2	65.8	2.527	2.591
G	9.5	10.5	0.374	0.413
Н	4.05	4.3	0.159	0.169
K	24.0	25.0	0.945	0.984
L	14.5	15.5	0.571	0.610
M	25.5	26.5	1.004	1.043
0	56.8	57.2	2.236	2.252





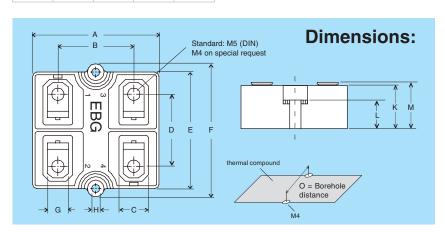
Bottom Case Temperature, °C, Maximum Power Rating see UPT - Configurations

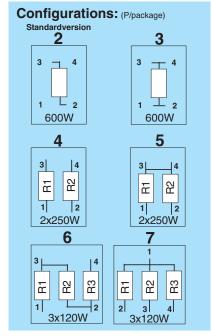
Derating (thermal resist.) UPT 600: 8.33W/°K (0.12°K/W) (for conf. 2 and 3) Power rating: 600W at 85°C bottom case temp.* Please ask for detailed mounting procedure!

* This value is only applicable if using thermal conduction to heat sink Rth-cs<0.025°KW.

This value can be obtained by using a thermal transfer compound with a heat conductivity of 1 W/mK.

The flatness of the cooling plate must be better than 0.05 mm overall. Surface roughness should not exceed 6.4 µm.





The above spec. sheet features our standard products. For further options, please contact our local EBG representative or contact us directly. For updated information, please visit our website!