

A Miba Group Company

Ultra-High-Power Resistors

Series UPT 600

600 W Resistor · US Patent-No. 5.355.281

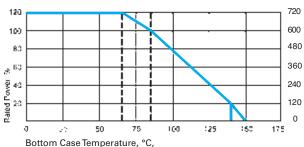
For variable speed drives, power supplies, control devices, robotics, motor control and other power devices, the easy mounting fixture guarantees an auto-calibrated pressure to the cooling plate of about 120 to 160 N.

Specifications

- Resistance values: 0.5 Ω to 1 M Ω
- 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 confiqurations
- 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 (for conf. 4)
- 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 (typical)
- Capacity/mass: 110 pF (typical)
- Capacity/parallel: 40 pF (typical)
- Operating temperature: -55°C to +150°C
- Mounting max. torque for contacts: 2 Nm
- Mounting max. torque: 1.8 Nm, M4 screws
- Housing material acc. to UL94-V0
- Standard storage conditions: 0 to 85°C at 80% RH max. for min. 12 months. For different conditions please contact your local EBG representative!
- Pulse load rating: please see our website (www.ebg-at.com/...) for sample pulse load information. For details please contact your local EBG representative!

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





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.*

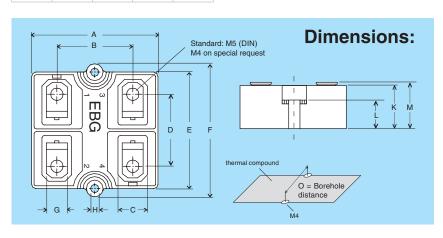
Please ask for detailed mounting procedure!

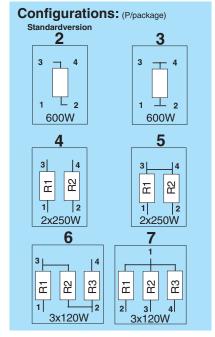
*This value is only applicable if using thermal conduction to heat sink Rth-cs<0.025°KW.

This value as only applicable it using triefmal conduction to feat sink kith-65<0.025 kWi.

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!