

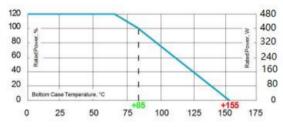
Series SUPT400 High Power Resistor

For variable speed drives, Power supplies, control devices, robotics, motor control and other power designs, the easy mounting fixture assures a pressure of the cooling plate of about 300N.

- ■400W operating power
- ■Non-Inductive design
- ■ROHS compliant
- ■High insulation & partial discharge performance
- ■Materials in accordance with UL 94 V-0

Product Detail:



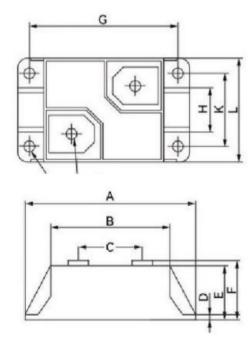


Derating (thermal resist.) SUPT400: 5.65W/K (0.18 K/W)

Power rating: 400 W at 85°C bottom case temperature

This value is only applicable when using a thermal conduction to the heat sink Rth-cs<0.025K/W. This value can be obtained by using a thermal transfer compound with a heat conductivity of at least 1 W/mK. The flatness of the cooling plate must be better than 0.05 mm overall. Surface roughness should not exceed $6.4 \mu m$.

2. Dimensions in millimeters



	Min(mm)	Max (mm)
A	65. 5	66. 5
В	45. 2	46.8
С	24. 5	25. 5
D	1. 95	2. 10
Е	20. 5	21. 5
F	21.0	23. 0
G	56. 2	57.8
Н	16. 7	17. 0
K	19. 5	20. 5
L	39. 5	41.0
M	4. 1	4. 3



3. Specifications

Resistance ranges: $0.5 \Omega \le 1 \text{M} \Omega$

Resistance Tolerance: $\pm 5\%$ to $\pm 10\%$

 ± 1 % to ± 2 % on special request for limited ohmic values with the reduction of the max. power /

pulse rating (ask for details)

Temperature Coefficient: ±150PPM/°C lower TCR on special request for limited ohmic values

Power rating:400 W at 85°C bottom case temperature

Short time overload: 480 W at 70°C for 10sec., $\Delta R = 0.4\%$ max.

Maximum operating voltage: 5,000 V DC = 3.500 V AC RMS (50 Hz)

higher voltage on request, not exceeding max. power

Electric strength voltage: 7 kVrms / 50 Hz / 500 VA, test time 1 min

between terminal und case (up to 12 kVrms on request)

voltages above 10 kVrms are tested at DC equivalent to avoid pre

damage of component

Insulation resistance: $> 10 \text{ G}\Omega$ at 1,000 V

Single shot voltage: up to 12 kV norm wave (1.5/50 μsec)

Inductance: ≤80 nH (typical), measuring frequency 10 kHz

Capacity/mass: ≤110 pF (typical), measuring frequency 10 kHz

Capacity/parallel: ≤40 pF (typical), measuring frequency 10 kHz

Operating temperature: -55°C to +155°C

Mounting - torque for contacts: 1.8 Nm to 2 Nm

Mounting - torque: 1.6 Nm to 1.8 Nm M4 screws

Weight: ~49.5g

4. Ordering Information

Type ohmic Value TOL

SUPT400 30K 5%