Ohmite's TAP600 delivers 600 watts of reliable power to a variety of power conditioning, power transmission, and power control applications. These resistors can be designed for liquid or air cooled heat sink systems. Applications include variable speed drives, power supplies, robotics, motor control, and other control devices.

FEATURES

- Dielectric Strength up to 12KV
- Special Design for Low Inductance and Capacitance Values
- Contacts allow for easy load connection with M5 screws (not included) available with M4 as special request.
- Encapsulated with a special resin filled epoxy casing with a large creepage distance to mass, large air distance between terminals, and a high insulation resistance (CTI 600).
- Materials meet the requirements of UL94-V0
- High current version available: 0.1 to 0.2 ohms; 10% tol.

SPECIFICATIONS

Electrical

Resistance Values: 0.25Ω to 100K Ω (0.1Ω to < 0.25Ω avail. in HC version only)

Resistance Tolerance: ±10% Std., 5% available on request.

Temperature Coefficient:

±150ppm/°C (others upon request)

Maximum Working Voltage:

5,000V DC, higher voltage on request, not exceeding max.

Power Rating: 600W at 70°C heat sink temperature or 85°C bottom case temperature. This value is only valid by using a thermal conduction to the heat sink Rth -cs<0.025°C/W.

The value can be reached by using thermal transfer compound with a heat conductivity of 1w/mk. The flatness of the cooling plate must be better than 0.05mm overall. The roughness of the surface should not exceed 6.4µm.

Dielectric Strength Voltage:

6k Vrms, 50Hz, 1min standard; up to 12k Vrms available

Single Shot Voltage: Up to 12KV Normwave (1.5/50 µsec)

Insulation Resistance: 10GΩ

min. at 500V Creeping Distance: 42mm min.

Air Distance: 14mm min.

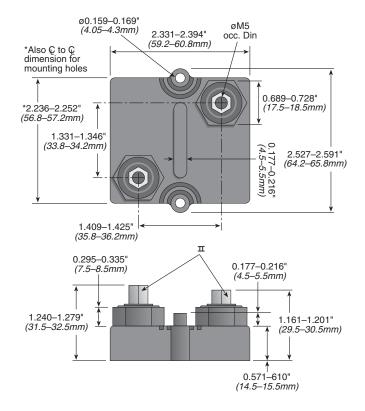
Inductance: ≤80nH Capacitance/Mass: ≤110pF

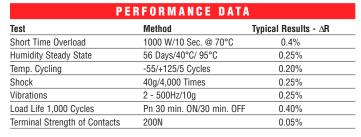
Capacitance/Mass: ≤110pr Capacitance/Parallel: ≤40pF Operation Temperature:

-55°C to +150°C Max. Torque for Contacts: 2 Nm Max. Torque for Mounting: 1.8

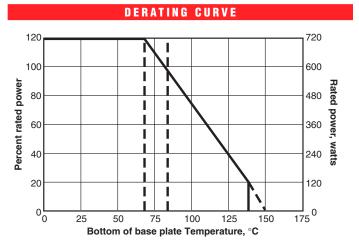
Derating (thermal resist.): 8.73W/°C (0.115°C/W)











STANDARD	VALUES	FOR	TAP600	SERIES
0.10*	1.0	15	500	
0.20*	2.0	30	1000	
0.25	3.0	50	2500	
0.33	4.0	75	3000	
0.50	5.0	100	5000	
	10	300	10,000	

*available only in HC version