

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TAP600 Series

600 Watt Heat Sinkable Planar



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

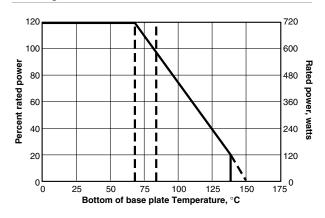
- Dielectric Strength up to 12KV
- Special Design for Low Inductance and Capacitance Values
- · Contacts allow for easy load connection with M5 screws (not included) available with M4 as special request. Thread depth 7mm
- Encapsulated with a special resin filled epoxy casing with a large creepage distance to mass, large air distance between terminals, and a high insulation resistance (CTI 600).
- Materials meet the requirements of UL94-V0



	CHARACTER	ISTICS
Resistance Values	0.25Ω to 100KΩ	
Resistance Tolerance	±10% Std., 5% available on request.	Test
Temperature Coefficient	±150ppm/°C (others upon request)	SI
Maximum Working Voltage	5,000V DC, higher voltage on request, not exceeding max. power	Humidi
Power Rating	600W at 70°C heat sink temperature or	
	85°C bottom case temperature. This value	Temp
	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	Load I
	must be better than 0.05mm overall. The roughness of the surface should not exceed 6.4µm.	Terminal of
Dielectric Strength Voltage	6k Vrms, 50Hz, 1min standard; up to 12k Vrms available	Derating
Single Shot Voltage	Up to 12KV Normwave (1.5/50 μsec)	120
Insulation Resistance	10GΩ min. at 500V	100
Creeping Distance	42mm min.	
Air Distance	14mm min.	Percent rated power
Inductance	≤80nH	60 after 60
Capacitance/Mass	≤110pF	ont re
Capacitance/Parallel	≤40pF	9 40 H
Operation Temperature	-55°C to +150°C	20
Max. Torque for Contacts	2 Nm	
Max. Torque for Mounting	1.8 Nm	00
Derating (thermal resist.)	8.73W/°C (0.115°C/W)	

Method	Typical Results - ΔR
1000 W/10 Sec. @ 70°C	0.4%
56 Days/40°C/ 95°C	0.25%
-55/+125/5 Cycles	0.20%
40g/4,000 Times	0.25%
2 - 500Hz/10g	0.25%
Pn 30 min. ON/30 min. OFF	0.40%
200N	0.05%
	1000 W/10 Sec. @ 70°C 56 Days/40°C/ 95°C -55/+125/5 Cycles 40g/4,000 Times 2 - 500Hz/10g Pn 30 min. ON/30 min. OFF

Derating



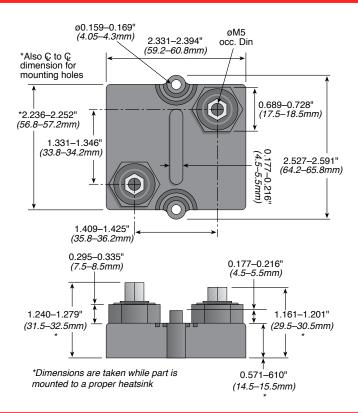
(continued)

TAP600 Series

600 Watt Heat Sinkable Planar

DIMENSIONS

(iin./mm)



ORDERING INFORMATION



TAP600K5 5R0E

J = 5% K = 10%, Std. L = 20%

Resistance 1 Ohm = 1R0 10 Ohm = 10R 1000 Ohm = 1K0

Standard Values

10% tol.

TAP600KR25E
TAP600KR35E
TAP600KR35E
TAP600K100E
TAP600K100E
TAP600K10RE
TAP600K200E
TAP600K10RE
TAP600K20RE
TAP600K20RE
TAP600K2R0E
TAP600K3R0E
TAP600K3R0E
TAP600K3R0E
TAP600K3R0E
TAP600K50RE

TAP600K5R0E TAP600K7K5E TAP600K7R5E TAP600K75RE TAP600K750E TAP600K30RE TAP600K500E 5% tol.

TAP600J1R0E
TAP600J10RE
TAP600J50RE
TAP600J100E
TAP600J500E
TAP600J1K0E

THIS PRODUCT IS DESIGNED FOR USE WITH PROPER HEATSINKING.

Maximum base plate temperature of the resistor must be monitored and kept within specified limits to establish the power rating. Best technique is to attach a thermocouple to the side of the base plate of the resistor. Temperature of plastic housing or heat sink cannot be used to establish rating of the resistor.

The Ohmite CP4 (http://www.ohmite.com/cat/sink_cp4. pdf) is an example of properly designed heat sink.