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

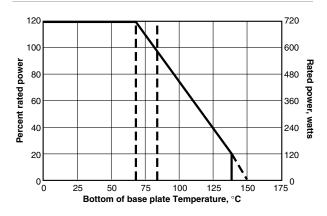
- Dielectric Strength up to 12KV
- Special Design for Low Inductance and Capacitance Values
- · Contacts allow for easy load connection with M5 screws (not included) available with M4 as special request. Thread depth 7mm
- Encapsulated with a special resin filled epoxy casing with a large creepage distance 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	Humidi
	exceeding max. power	Hamila
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
	must be better than 0.05mm overall. The roughness of the surface should not exceed 6.4µm.	Terminal of
Dielectric Strength Voltage	7K 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.	100
Air Distance	14mm min.	Percent rated power
Inductance	≤80nH	60 ated
Capacitance/Mass	≤110pF	tre o
Capacitance/Parallel	≤40pF	40
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.)	8.33W/°C (0.12°C/W) element to case	

Test	Method	Typical Results - ΔR
Short Time Overload	1000 W/10 Sec. @ 70°C	0.4%
Humidity Steady State	56 Days/40°C/ 95°C	0.25%
Temp. Cycling	-55/+125/5 Cycles	0.20%
Shock	40g/4,000 Times	0.25%
Vibrations	2 - 500Hz/10g	0.25%
•	Pn 30 min. ON/30 min. OFF	0.40%
Terminal Strength of Contacts	200N	0.05%

Derating



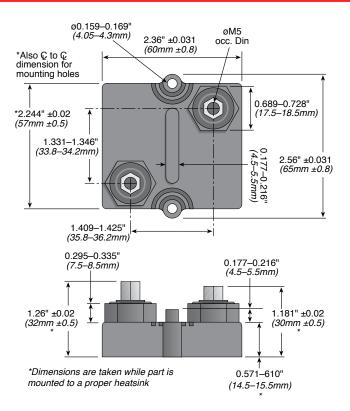
(continued)

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DIMENSIONS

(iin./mm)



ORDERING INFORMATION



TA P 6 0 0 K 5 R 0 E

Style Tolerance J = 5% Resistance 1 Ohm = 180

K = 10%, Std.

L = 20%

10 Ohm = 10R

1000 Ohm = 1K0

Standard Values
10% tol.

TAP600KR25E TAP TAP600KR33E TAP TAP600KR50E TAP TAP600K100E TAP TAP600K10KE TAP TAP600K10KE TAP TAP600K1K0E TAP TAP600K1R0E TAP

TAP600K4R0E
TAP600K40RE
TAP600K20RE
TAP600K20RE
TAP600K22RE
TAP600K2R0E
TAP600K2R0E
TAP600K30RE
TAP600K50RE
TAP600K50RE

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 (https://www.ohmite.com/cp4-series-chillplate/) is an example of properly designed heat sink.



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LPS0300HR300JB 20-100RP HVR10D2K0F HVR20C11MF HVR10D3M0J HVR30B82MF HVR10D25MK HVR30B500KF

BDS2A10033RK TAP800K68RE BB326610R0KE TGHHV15R0FE TL88J136C BA416775R0KE TL122KU221RE TGHDV100RJE

TL71F9K40C LPS0300HR560JB FPA100 47K J LPSA300H4R70JB LPSA300H10R0JB LPSA300H47R0JB LPSA300H1R00JB

LPSA800H1R00JB LPSA800H1000JB LPSA800H47R0JB LPSA300H1000JB LPSA800H10R0JB LPSA800H4R70JB 504AS252KDG2

TGHHV100RJE TGHHV33R0JE TGHHV500RJE TGHHV5K00JE TGHHV5R00JE TGHHV680RJE TGHLV100RJE TGHLV150RJE

TGHLV500RJE TGHLV5K00JE HTS-14-12-40-3/4.8 HTS-14-24-40-3/4.8 HTS-15-230-100-1 HTS-15-230-100-3/4.8 HTS-15-230-100-3/6.3 FPA100 100R J FPA100 22R J FPA100 2R0 J FPA100 330R J