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.

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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

CHARACTERISTICS



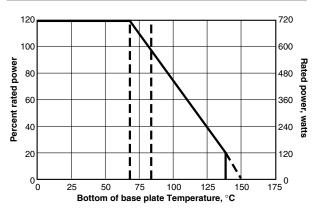
Resistance Values	0.25Ω to 100KΩ				
Resistance Tolerance	±10% Std., 5% available on request.				
Temperature Coefficient	±150ppm/°C (others upon request)				
Maximum Working Voltage	5,000V DC, higher voltage on request, not exceeding max. power				
Power Rating	600W at 70°C heat sink temperature or 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.				
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Dielectric Strength Voltage	6k Vrms, 50Hz, 1min standard; up to 12k Vrms available				
Dielectric Strength Voltage Single Shot Voltage	6k Vrms, 50Hz, 1min standard; up to 12k				
	6k Vrms, 50Hz, 1min standard; up to 12k Vrms available				
Single Shot Voltage	6k Vrms, 50Hz, 1min standard; up to 12k Vrms available Up to 12KV Normwave (1.5/50 µsec)				
Single Shot Voltage Insulation Resistance	6k Vrms, 50Hz, 1min standard; up to 12k Vrms available Up to 12KV Normwave (1.5/50 μsec) 10GΩ min. at 500V				
Single Shot Voltage Insulation Resistance Creeping Distance	6k Vrms, 50Hz, 1min standard; up to 12kVrms availableUp to 12KV Normwave (1.5/50 μsec)10GΩ min. at 500V42mm min.				
Single Shot Voltage Insulation Resistance Creeping Distance Air Distance	6k Vrms, 50Hz, 1min standard; up to 12kVrms availableUp to 12KV Normwave (1.5/50 μsec)10GΩ min. at 500V42mm min.14mm min.				
Single Shot Voltage Insulation Resistance Creeping Distance Air Distance Inductance	6k Vrms, 50Hz, 1min standard; up to 12k Vrms availableUp to 12KV Normwave (1.5/50 µsec)10GΩ min. at 500V42mm min.14mm min.≤80nH				
Single Shot Voltage Insulation Resistance Creeping Distance Air Distance Inductance Capacitance/Mass	6k Vrms, 50Hz, 1min standard; up to 12k Vrms availableUp to 12KV Normwave (1.5/50 µsec)10GΩ min. at 500V42mm min.14mm min.≤80nH≤110pF				
Single Shot Voltage Insulation Resistance Creeping Distance Air Distance Inductance Capacitance/Mass Capacitance/Parallel	6k Vrms, 50Hz, 1min standard; up to 12k Vrms available Up to 12KV Normwave (1.5/50 μsec) 10GΩ min. at 500V 42mm min. 14mm min. ≤80nH ≤110pF ≤40pF				

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

0.050 1. 400/00

Typical Results - AR Test Method Short Time 1000 W/10 Sec. @ 0.4% Overload 70°C Humidity Steady 56 Days/40°C/ 95°C 0.25% State -55/+125/5 Cycles Temp. Cycling 0.20% **Shock** 40g/4,000 Times 0.25% Vibrations 2 - 500Hz/10g 0.25% Load Life 1,000 Pn 30 min. ON/30 0.40% Cycles min. OFF 200N Terminal Strength 0.05% of Contacts



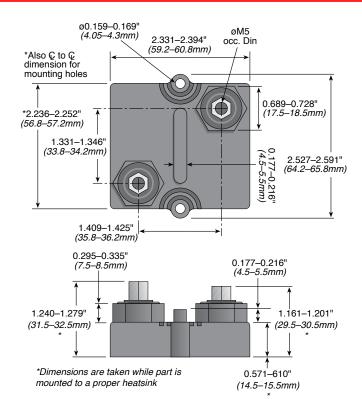


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(iin./mm)

DIMENSIONS



ORDERING INFORMATION

RoHS compliant Non-compliant version unavailable TAP600K5R0E		Standard Values				
		10% tol.			5% tol.	
Style	Tolerance J = 5% K = 10%, Std. L = 20%	Resistance 1 Ohm = 1R0	TAP600KR25E TAP600KR33E TAP600KR50E TAP600K100E TAP600K10RE TAP600K10RE TAP600K1K0E TAP600K1R0E	TAP600K4R0E TAP600K40RE TAP600K20RE TAP600K20RE TAP600K22RE TAP600K2R0E TAP600K3R0E TAP600K50RE	TAP600K5R0E TAP600K7K5E TAP600K7R5E TAP600K75RE TAP600K750E TAP600K30RE TAP600K500E	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.



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LPS0300HR300JB 20-100RP HVR10D2K0F HVR20C11MF HVR10D3M0J HVR30B82MF HVR10D25MK HVR30B500KF BDS2A10033RK TAP800K68RE 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-15-230-100-1 HTS-15-230-100-3/4.8 HTS-15-230-100-3/6.3 HTS-15-230-150-3/6.3 FPA100 100R J FPA100 22R J FPA100 2R0 J FPA100 330R J FPA100 6K8 J FPA100 8R0 J