TAP650 Series

High-power, low profile design



FEATURES

- For variable speed drives, power supplies, control devices, robotics, motor control and other power designs.
- High-purity ceramic metalized with film on bottom for better heat transfer and optimum discharge.
- Encapsulation: Special resin-filled epoxy casing. High insulation resistance (CTI 600), high dielectric strength and partial discharge capability.
- Resistance Element: Special design for low inductance and capacitance values. The element demonstrates stability while covering high wattage and pulse loading.

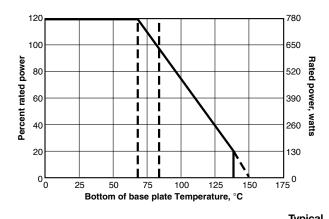


CHARACT

Power 650W at 85°C bottom case temp. (Please ask for detailed rating mounting procedure! This value is only applicable if using thermal conduction to the heat sink Rth-cs<0.117°K/W.

This value can be obtained by using a thermal transfer compound with a heat conductivity of 8.55 W/mK. The flatness of the cooling plate must be better than 0.05mm overall. Surface roughness should not exceed 6.4µm.

Derating



Method	results
1,000W/10sec	0.4%
56 days/40°C/95%	0.25%
-55°/+125°/5 cycles	0.20%
40g/4,000 times	0.25%
2-500Hz/10g	0.25%
3,000cyl; Pn 30 min. on / 30 min off	0.40%
	56 days/40°C/95% -55°/+125°/5 cycles 40g/4,000 times 2-500Hz/10g 3,000cyl; Pn 30 min. on /

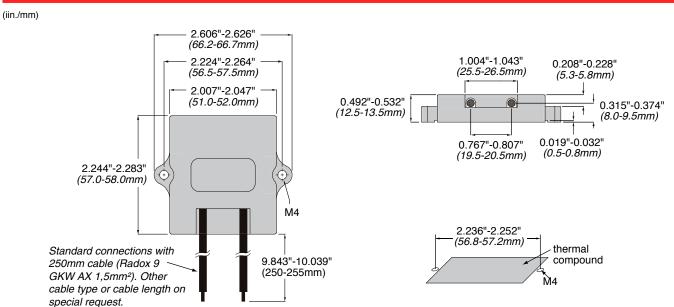
ERISTICS	
Resistance values	0.25Ω to 1M Ω (others upon request). Values below 1 ohm are measured at max lead length.
Resistance tolerance	±5% to ±10%
Temperature coefficient	±150 ppm/°C (others upon request)
Maximum working voltage	5,000VDC, higher voltage upon request, not exceeding max. power
Short time overload	1,000 W at 70°C for 10sec., delta-R = 0.4% max.
Power rating	650W at 85°C bottom case temperature (others upon request)
Peak current	up to 1,500A depending on pulse length and frequency. Please ask for details!
Electric strength voltage	6kVrms, 50 Hz,up to 12 kVrms upon special request.
Single shot voltage	up to 12kV norm wave (1.5/50 µsec)
Partial discharge	4KVrms, <10 pC, up to 7kV upon special request
Insulation resistance	10 GΩ min. at 500V
Inductance	80nH (typical)
Capacity/mass	110 pF
Capacity/parallel	40 pF
Operating temperature	res. body: -55°C to +150°C; std. cables: -40°C to +120°C (other cables upon request)
Mounting max. torque	1.8 Nm, M4 screws
Housing material	According to UL94-V0
Standard storage conditions	0° to 85°C at 80% RH max. for min. 12 months. For different conditions please contact factory
Derating (thermal resist.)	8.55W/°K (0.117°K/W)

(continued)

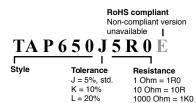
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DIMENSIONS



ORDERING INFORMATION



Standard part numbers

TAP650JR25E TAP650JR50E TAP650J1R0E TAP6600J4R7E TAP650J10RE TAP650J27RE TAP650J36RE TAP650J50RE	TAP650J100E TAP650J270E TAP650J500E TAP650J1K0E TAP650J2K5E TAP650J5K0E TAP650J7K5E TAP650J10KE
TAP650J50RE TAP650J75RE	TAP650J10KE

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