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.



Resistance values 0.25Ω to $1M\Omega$ (others upon request).

max lead length.

voltage not exceeding max. power

Short time overload 1,000 W at 70°C for 10sec., delta-R = 0.4% max.

Temperature coefficient ±150 ppm/°C (others upon request)

Resistance tolerance $\pm 5\%$ to $\pm 10\%$

Maximum working

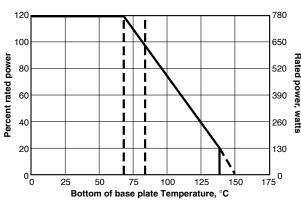
Values below 1 ohm are measured at

5,000VDC, higher voltage upon request,

CHARACTERISTICS

Power650W at 85°C bottom case temp. (Please ask for detailed
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.





	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 spe- cial 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 condi- tions	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)

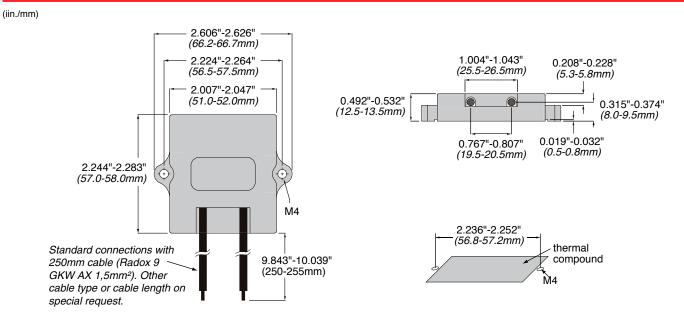
Test	Method	Typical results
Short time overload	1,000W/10sec	0.4%
Humidity steady state	56 days/40°C/95%	0.25%
Temp. cycling	-55°/+125°/5 cycles	0.20%
Shock	40g/4,000 times	0.25%
Vibrations	2-500Hz/10g	0.25%
Load life	3,000cyl; Pn 30 min. on / 30 min off	0.40%

(continued)

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DIMENSIONS



ORDERING INFORMATION

	IS compliant	Standard pa	rt numb
TA P Style	Compliant version vailable I Resistance 1 Ohm = 1R0 10 Ohm = 10R 1000 Ohm = 1K0	TAP650JR25E TAP650JR50E TAP650J1R0E TAP650J10RE TAP650J27RE TAP650J27RE TAP650J36RE TAP650J50RE TAP650J75RE	TAP650 TAP650 TAP650 TAP650 TAP650 TAP650 TAP650 TAP650

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AP650JR25E AP650JR50E AP650J1R0E AP650J1R0E AP650J10RE AP650J27RE AP650J27RE	TAP650J100E TAP650J270E TAP650J500E TAP650J1K0E TAP650J2K5E TAP650J2K5E
AP650J36RE	TAP650J7K5E
AP650J50RE	TAP650J10KE
AP650J75RE	

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.



rev 9/17-2

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