

HIGH HEAT TRANSFER CORES

From 1.5 to 4 times higher power ratings than conventional resistors of equivalent size.

FEATURES:

Miniature size Maximum power to size ratio Higher stability Optimum heat dissipation High temperature silicone protected Noninductive windings available

VARIATIONS:

Special tolerance Special TC on request Lead length and diameter Weldable leads Molded types available

GENERAL SPECIFICATIONS:

Standard tolerances: ± 0.05 to 5% Dielectric strength: 500 VAC TG-1, TG-2, TG-3 1000 VAC all others Insulation resistance: 1000 megohms minimum Temperature coefficients: 10Ω and above: $\pm 20 ppm$ 1Ω to 9.9 Ω : ±50ppm Below 1Ω: ±90ppm Short time overload: 5 sec. at 5x rated power Terminal strength: 5lb. pull test TG-1, TG-2, TG-3 10lb. pull test all others Standard terminals: Tinned copper weld Beryllium oxide or high purity alumina Core: Winding: Copper-nickel or nickel-chrome alloy as required by resistance Sealant: High-temperature silicone

Power rating: Based on;

(1) Characteristic U

(a) full power operation at 25°C (b) 0.5% maximum Δ R in 2000 hour load life

(c) maximum hotspot 275°C

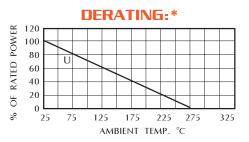
TYPE "TG" SILICONE PROTECTED

HIGH HEAT TRANSFER CORES

DERATING:

Operation in ambients above 25°C require derating in accordance with the Derating Curve.

Note: The use of high purity cores permits "TG" types to be operated at significantly higher wattages than conventional types using regular steatite or alumina. The outstanding thermal conductivity of TG cores, coupled with TEPRO time-proven, high-temperature silicone protection results in outstanding performance and optimum power to size ratio.



STANDARD CONFIGURATIONS AND ELECTRICAL SPECIFICATIONS:

	TEPRO	POWER RATINGS	RESISTANCE RANGE	DIMENSIC	В	С	D	E
	TYPE			±.031	±.031	±.002	±.031	MIN.
		(Watts)	(Ohms)	(±.787)	(±.787)	(±.050)	(±.787)	
	TG 1	1	0.1-3.5K	0.235	0.083	0.020	0.300	1.250
				(5.969)	(2.108)	(0.508)	(7.620)	(31.750)
	TG 2	2	0.1-5.0K	0.235	0.083	0.020	0.300	1.250
				(5.969)	(2.108)	(0.508)	(7.620)	(31.750)
/pe.	TG 3	3	0.1-10.0K	0.406	0.093	0.025	0.500	1.250
				(10.312)	(2.362)	(0.635)	(12.700)	(31.750)
tion	TG 5	5	0.1-20.0K	0.525	0.187	0.032	0.625	1.250
				(13.335)	(4.750)	(0.813)	(15.875)	(31.750)
e	TG 6	6	0.1-40.0K	0.600	0.220	0.032	0.675	1.250
-				(15.240)	(5.588)	(0.813)	(17.145)	(31.750)

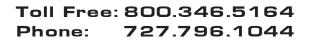
Notes:

For non-inductive windings add "NI" to typ

Maximum resistance 1/3 that shown. * Characteristic U 275°C hotspot. ** Metric dimensions in (mm) for informatic

only. 1"=25.4mm. D dimensions is clean-lead to clean-lead.

All data and dimensions subject to change without notice.





TYPE "TG"