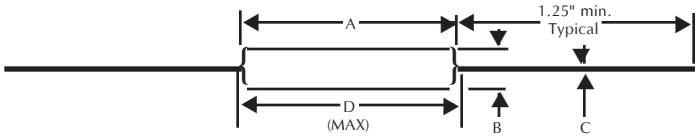
TYPE "TS"

PRECISION POWER RESISTORS
INDUSTRIAL STYLES

TYPE "TS" SILICONE PROTECTED



FEATURES:

Miniature size
Continuous full power operation
Higher ambients
High-temperature silicone protected
Shock and moisture resistant
High stability

GENERAL SPECIFICATIONS:

Standard tolerances:
0.05 to 5%
Dielectric strength:
500 VAC TS.125 to TS3
1000 VAC all others
Insulation resistance:
1000 megohms minimum
Temperature coefficients:
10Ω and above: ±20ppm
1Ω to 9.9Ω: ±50ppm
Below 1Ω: ±90ppm
Short time overload:
5 sec. @ 5x rated power 3 watts and below
5 sec. @ 10x rated power all others
Terminal strength:
5lb. pull test 1 watt and below
10lb. pull test all others
Standard terminals:
Tinned copper weld
Core: Steatite or alumina
Windings: Copper-nickel or nickel-chrome alloy as required by resistance
Sealant: High-temperature silicone
Power ratings:
Based on;
(1) Characteristic U
(a) maximum hotspot 275°C
(b) 0.5% maximum Δ R in 2000hr. load life

STANDARD CONFIGURATIONS AND ELECTRICAL SPECIFICATIONS: **

TEPRO TYPE	POWER RATINGS (Watts)	RESISTANCE RANGE MIN. MAX.	MAXIMUM WEIGHT (GRAMS)	DIMENSIONS: Inches A ±.031 (±.787)	B ±.031 (±.787)	C ±.002 (±.050)	D ±.031 (±.787)	E MIN.
TS .125	0.125	0.01 - 3K	0.200	0.220 (5.588)	0.083 (2.108)	0.020 (0.508)	0.300 (7.620)	1.250 (31.750)
TS .25	0.250	0.01 - 6K	0.250	0.220 (5.588)	0.083 (2.108)	0.020 (0.508)	0.300 (7.620)	1.250 (31.750)
TS .5	0.500	0.01 - 10K	0.350	0.406 (10.312)	0.093 (2.362)	0.025 (0.635)	0.500 (12.700)	1.250 (31.750)
TS1A	1.000	0.01 - 10K	0.350	0.406 (10.312)	0.093 (2.362)	0.025 (0.635)	0.500 (12.700)	1.250 (31.750)
TSA1	1.000	0.01 - 20K	0.500	0.496 (12.598)	0.118 (2.997)	0.032 (0.813)	0.590 (14.986)	1.250 (31.750)
TS1	1.000	0.01 - 20K	0.800	0.421 (10.693)	0.142 (3.606)	0.032 (0.813)	0.590 (14.986)	1.250 (31.750)
TS2B/TS2C	3.000	0.01 - 32K	1.000	0.496 (12.598)	0.181 (4.597)	0.032 (0.813)	0.590 (14.986)	1.250 (31.750)
TS2B/TS2C	3.000	0.01 - 32K	1.000	0.496 (12.598)	0.181 (4.597)	0.025 (0.635)	0.590 (14.986)	1.250 (31.750)
TS2D	3.000	0.01 - 32K	1.000	0.650 (16.510)	0.220 (5.588)	0.040 (1.016)	0.750 (19.083)	1.250 (31.750)
TS2	3.000	0.01 - 32K	1.000	0.575 (14.605)	0.181 (4.597)	0.032 (0.813)	0.660 (16.764)	1.250 (31.750)
TS3	3.000	0.01 - 42K	1.200	0.575 (14.605)	0.181 (4.597)	0.032 (0.813)	0.660 (16.764)	1.250 (31.750)
TS5	5.000	0.01 - 90K	4.200	0.933 (23.700)	0.315 (8.001)	0.040 (1.016)	1.063 (27.000)	1.250 (31.750)
TS10	10.000	0.01 - 275K	9.000	1.730 (43.950)	0.299 (7.600)	0.040 (1.016)	1.870 (47.498)	1.250 (31.750)

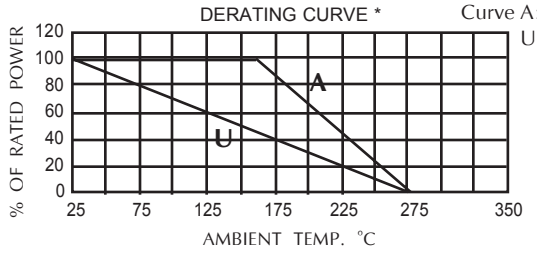
Notes:
For non-inductive windings add "NI" to type.
Maximum resistance 1/3 that shown.
* Characteristic U 275°C hotspot.
D dimensions is clean-lead to clean-lead.
The assembly description is ceramic size only.
The dimensions on table are with cap and leads and outside dimensions.
** Metric dimensions in (mm) for information only. 1"=25.4mm. All data and dimensions subject to change without notice.

VARIATIONS:

Special TC on request (TC's to +5ppm)
Lead length and diameter
Tolerances to 0.01% on most types
Molded types available
Noninductive (Ayrton-Perry) windings
Lead material and finish
Body and lead configuration

DERATING:

TS.5 to TS 2 types may be operated at full power in ambients to 170°C without derating. When used in higher ambients, all types require de-rating in accordance with the Derating Curve.



Curve A: TS.5 to TS2 types
U: 275°C hotspot