

**PRECISION POWER WIREWOUND
ALUMINUM HOUSED,
CHASSIS MOUNT RESISTORS**

FEATURES:

- Chassis mount for heat sink effect
- Epoxy protected windings
- Miniature size
- Noninductive windings
- High stability
- Optimum power to size ratio
- Higher ambients
- Withstand severe environments

VARIATIONS:

- Special TC on request
- Closer tolerances to .01%
- Special terminals
- Flexible leads

GENERAL

SPECIFICATIONS:

- Standard tolerances:
±0.1 to 5%
- Dielectric strength:
1000 VAC TM-5, TM-10, TM-25
2000 VAC TM-50,
3000 VAC TM-100, TM-250
- Insulation resistance:
10000 megohms minimum
- Temperature coefficients:
10Ω and above: ±20ppm
1Ω to 9.9Ω: ±50ppm
Below 1Ω: ±90ppm
- Terminal strength:
5lb. pull test TM-5, TM-10
10lb. pull test all others
- Standard terminals:
Tinned copper, flattened and
pierced TM-5 to TM-50
Threaded on TM-100 and TM-250
- Housing: Anodized aluminum
- Core: Steatite or alumina
- Winding: Copper-nickel or nickel-chrome
alloy as required by resistance
- Sealant: High-temperature silicone
- Power rating: Based on;
(a) full power operation at 25°C
(b) 1% maximum Δ R in
1000 hour load life
(c) maximum hotspot 275°C
(d) mounting on proper heat sink
- Recommended heat sink:
Aluminum chassis;
6 x 4 x 2 x .040 TM-5, TM-10
7 x 5 x 2 x .040 TM-25
12 x 12 x .050 TM-50
12 x 12 x .125 TM-100, TM-250



ENVIRONMENTAL SPECIFICATIONS:

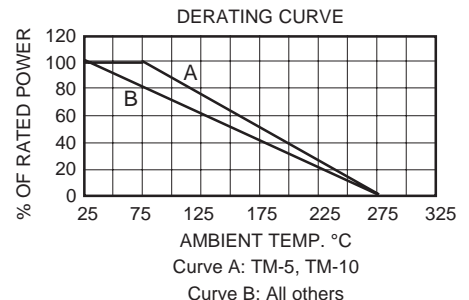
TEST	MIL-R-18546
Load life	± (1% + 0.05Ω) Δ R
Moisture resistance	± (1% + 0.05Ω) Δ R
Resistance temperature Characteristic	±50ppm to 2000Ω ±30ppm over 2000Ω
Thermal shock	± (.5% + 0.05Ω) Δ R
Momentary overload	± (.5% + 0.05Ω) Δ R
Dielectric	± (.2% + 0.05Ω) Δ R
High temperature storage	± (.5% + 0.05Ω) Δ R
Shock	± (.2% + 0.05Ω) Δ R
Vibration	± (.2% + 0.05Ω) Δ R
Terminal strength	± (.2% + 0.05Ω) Δ R

TEPRO TYPE	POWER RATINGS/WATTS		RESISTANCE RANGE OHMS	
	TEPRO MIL.		TEPRO MIN.	TYPE MAX.
TM 5	7.5	5	0.005	20K
TM 10	12.5	10	0.005	40K
TM 25	25.0	20	0.005	90K
TM 50	50.0	30	0.005	250K
TM 100	100.0	75	0.010	500K
TM 250	250.0	120	0.010	700K

Notes:
For noninductive windings
add "NI" to type. Maximum
resistance 1/3 that shown.
All data and dimensions
subject to change without
notice.

DERATING:

Operation in high ambients or on reduced
chassis areas requires derating in accordance
with the accompanying curve. TM-5 and
TM-10 types may be operated in ambients
to 75°C without derating. (Curve A)



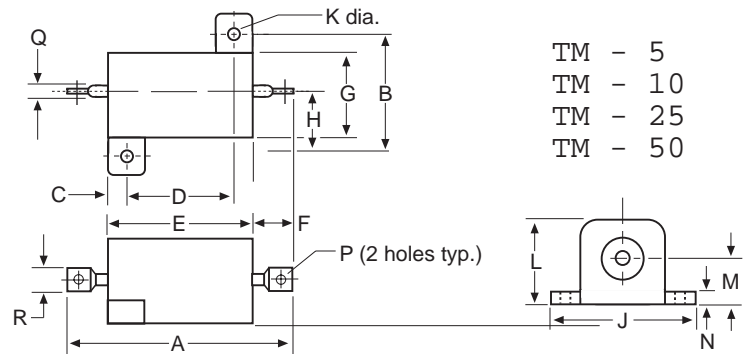
TYPE "TM"

TEPRO

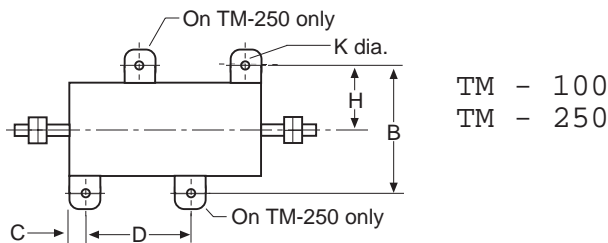


TEPRO TYPE	DIMENSIONS Inches (mm)																
	A ±.062	B ±.010	C ±.031	D ±.010	E ±.062	F ±.062	G ±.062	H ±.031	J ±.031	K ±.005	L ±.031	M ±.062	N ±.031	P ±.005	Q .AWG.	R MIN.	S ±.010
TM 5	1.12 (28.5)	.490 (12.4)	.078 (1.98)	.444 (11.2)	.600 (15.2)	.266 (6.76)	.334 (8.48)	.245 (6.22)	.646 (16.4)	.093 (2.36)	.320 (8.13)	.133 (3.38)	.065 (1.65)	.050 (1.27)	16	.085 (2.16)	
TM 10	1.37 (34.9)	.625 (15.8)	.094 (2.3)	.562 (14.2)	.750 (19.0)	.312 (7.92)	.438 (11.1)	.312 (7.92)	.812 (20.6)	.094 (2.39)	.406 (10.3)	.203 (5.16)	.094 (2.39)	.085 (2.16)	12	.140 (3.56)	
TM 25	1.94 (49.2)	.781 (19.8)	.172 (4.37)	.719 (18.2)	1.062 (26.9)	.438 (11.1)	.531 (13.4)	.391 (9.93)	1.094 (27.7)	.125 (3.18)	.562 (14.2)	.281 (7.14)	.094 (2.39)	.085 (2.16)	12	.140 (3.56)	
TM 50	2.78 (70.6)	.844 (21.4)	.188 (4.78)	1.562 (39.6)	1.938 (49.2)	.438 (11.1)	.594 (15.0)	.422 (10.7)	1.156 (29.3)	.125 (3.18)	.625 (15.8)	.312 (7.92)	.094 (2.39)	.085 (2.16)	12	.140 (3.56)	
TM 100	5.48 (139.1)	2.25 (57.1)	.375 (9.53)		3.50 (88.9)	.989 (25.1)	1.812 (46.0)	1.125 (28.5)	2.812 (71.4)	.188 (4.78)	1.75 (44.4)	.770 (19.5)	.188 (4.78)	12-24 UNC-2A			2.75 (69.8)
TM 250	7.00 (177.8)	2.50 (63.5)	.312 (7.93)	3.00 (76.2)	4.50 (114.3)	1.25 (31.7)	2.125 (53.9)	1.250 (31.7)	3.00 (76.2)	.188 (4.78)	2.188 (55.5)	1.00 (25.5)	.250 (6.35)	1/4-20 UNC-2A		.875 (22.2)	3.875 (98.4)

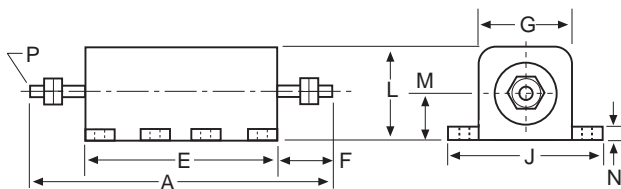
Note: Metric dimensions in (mm) for information only. 1" = 25.4 mm



- TM - 5
- TM - 10
- TM - 25
- TM - 50



- TM - 100
- TM - 250



TEPRO

P.O. BOX 1260 • CLEARWATER, FL 33757