

#### MOLDED WIREWOUND RESISTORS

### TYPE "TSM" TRANSFER MOLDED

### **FEATURES:**

Ultra low values
Miniature size
Continuous full power operation
Higher ambients
High-temperature molding
Shock and moisture resistant
High stability

# GENERAL SPECIFICATIONS:

Standard tolerances:

0.05 to 5%

Dielectric strength:

1000 VAC

Insulation resistance:

1000 megohms minimum

Temperature coefficients:

 $10\Omega$  and above:  $\pm 20 ppm$   $1\Omega$  to  $9.9\Omega$ :  $\pm 50 ppm$  Below  $1\Omega$ :  $\pm 90 ppm$ 

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: Ceramic 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

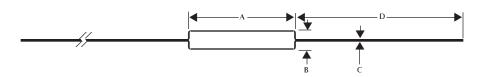
(a) maximum hotspot 275°C

(b) 0.5% maximum  $\Delta$  R in 2000hr. load life

# **VARIATIONS:**

Special TC Lead length and diameter Tolerances to ±.005% Noninductive (Ayrton-Perry) windings Lead material and finish Body and lead configuration





#### STANDARD CONFIGURATIONS AND ELECTRICAL SPECIFICATIONS:

TEPRO	DIMENSIONS (Inches)				POWER	RESISTANCE
ТҮРЕ	A ±.031	B ±.031	C ±.002	D MIN.	(WATTS)	RANGE (OHMS)
TSM.5	.406	0.93	0.025	1.5	0.5	.005 - 10K
TSM1	.420	.110	0.025	1.5	1.0	.001 - 10K
TSM2B	.560	.210	0.032	1.5	3.0	.001 - 20K
TSM3	.609	.250	0.040	1.5	3.0	.001 - 32K
TSM5	.875	.312	0.040	1.5	5.0	.001 - 60K
TSM7	1.218	.312	0.040	1.5	7.0	.001 - 160K
TSM10	1.812	.375	0.040	1.5	10.0	.001 - 225K

**Notes:** For non-inductive windings add "NI" to type. Maximum resistance 1/3 that shown.

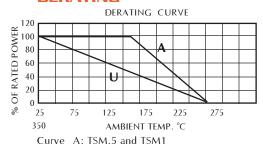
\* Characteristic U 275°C hotspot.

All data and dimensions subject to change without notice.

## **DERATING:**

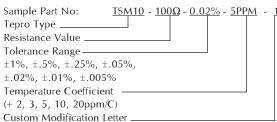
Molded units may be operated at full power in ambients to 170°C without derating. When used in higher ambients, all types require derating in accordance with the Derating Curve.

## **DERATING**



U: 275°C hotspot

## **HOW TO ORDER:**



Toll Free: 800.346.5164 Phone: 727.796.1044

