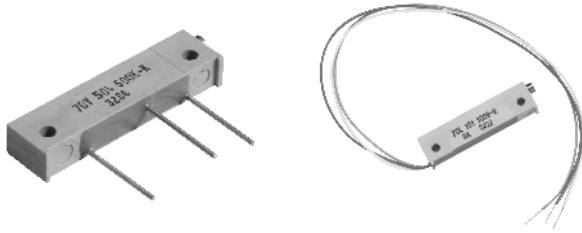


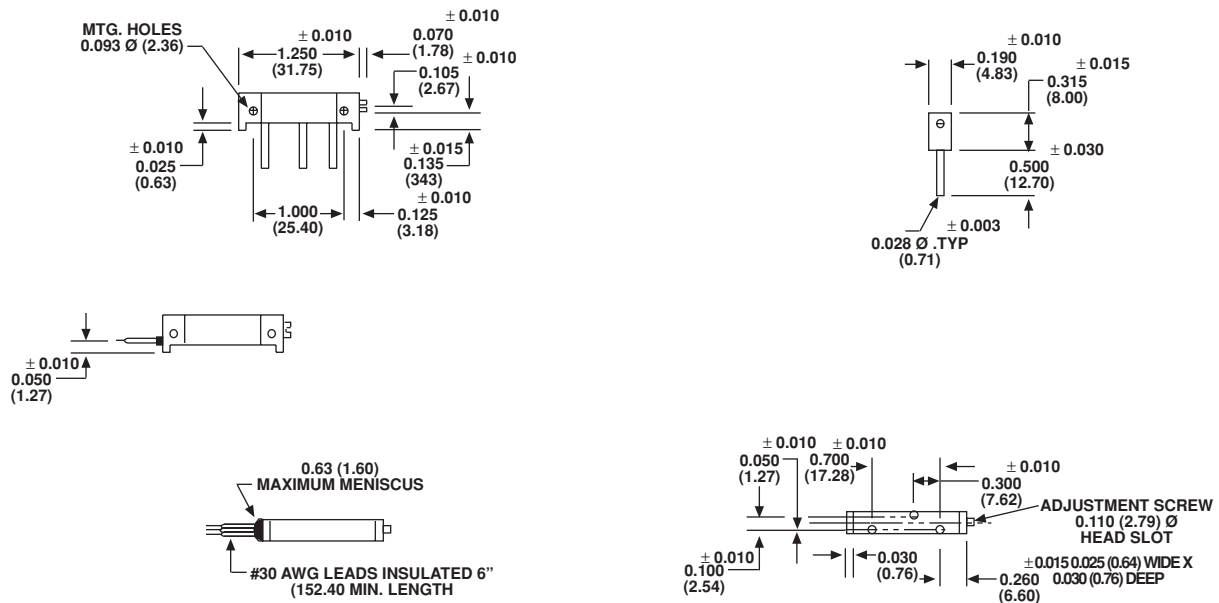
## 1 - 1/4" Rectangular Multi-Turn Cermet

### FEATURES

- Improved Wiper
- Unique "T" Slider Block Design Assure Excellent Setability and Stability
- CRV of 3% or 3 $\Omega$
- Temperature coefficient of 100 ppm/ $^{\circ}$ C
- RT Tolerance  $\pm$  10% STD ( $\pm$  5% Available)



### DIMENSIONS in inches (millimeters)



ELECTRICAL SPECIFICATIONS	
Resistance Range	10 $\Omega$ thru 2M $\Omega$
Standard Resistance Tolerance	10% (para. 3.7.1)
End Resistance	2% maximum (para. 3.7.2)
Actual Effective Electrical Travel	20 turns nominal (para. 3.8)
Contact Resistance Variation	3% or 3 $\Omega$ , whichever is greater (para. 3.9)
Dielectric Withstanding Voltage	1000 VAC at sea level, 350 VAC at 80,000 feet (para. 3.10) 24.400 meters)
Insulation Resistance	1000M $\Omega$ (para. 3.11)
Power Rating	1.0 watt at 85 $^{\circ}$ C derated linearly to zero watts at 150 $^{\circ}$ C (para. 3.5) maximum voltage not to exceed 400 volts
Temperature coefficient of resistance	$\pm$ 100ppm/ $^{\circ}$ C 100 $\Omega$ to 2M $\Omega$ - 100 to 200ppm/ $^{\circ}$ C 10 $\Omega$ , 20 $\Omega$ and 50 $\Omega$



MECHANICAL SPECIFICATIONS	
Stops	Wiper idles against stops (para. 3.4.7.1)
Operating Torque	5 oz-in (360 gm-cm) maximum (para. 3.12.1)
Rotational Life	200 cycles minimum with loaded circuit, maximum change in resistance 2% (para 3.23) or 500 cycles minimum without discontinuity unloaded
Weight	0.116 oz (3.3 grams) maximum

ENVIRONMENTAL SPECIFICATIONS			
		MAXIMUM TOTAL RESISTANCE	CHANGE SETTING
Operating Temperature Range	- 55°C to + 150°C	-	-
Salt Spray	96 hours (para. 3.18)	-	-
Terminal Strength	2lbs (900gms) minimum push/pull (para. 3.24)	-	-
Sealed	All units sealed to permit cleaning in common solvents immersion	-	-
Thermal Shock	- 65°C to + 125°C (para. 3.13)	2%	1%
Shock	100g's 6ms (para 3.16)	1%	1%
Vibration	30g's 10 to 2000Hz (para. 3.17)	1%	1%
Load Life	1000 hours (para. 3.20)	3%	1%
Low Temperature Operation	- 55°C (para. 3.21)	2%	2%
High Temperature Exposure	+ 150°C (para. 3.22)	3%	2%
Resistance to Solder Heat	350°C for 3 seconds (para. 3.19)	1%	-

**MARKING**

Unit Identification: Manufacturer's name and part number including EIA resistance code, date code, circuit diagram and military style designation as applicable

ORDERING INFORMATION			
70 MODEL	L TERMINAL STYLE	103 EIA RESISTANCE CODE	T000 SPECIAL (omit if standard)
	L = Leadwire Y = Printed circuit pins		T601 Panel mount added to terminal style L

SAP PART NUMBERING GUIDELINES														
M	7	0	L	1	0	3	K	B	4	0	□	□	□	□
MODEL			STYLE	OHMIC VALUE			TOL	PACKAGING CODE			SPECIAL (IF APPLICABLE)			
See the end of this data book for conversion tables														