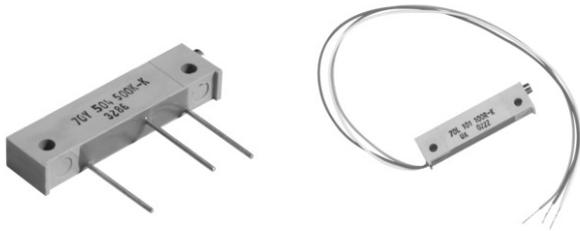


1 1/4" Rectangular Multi-Turn Cermet

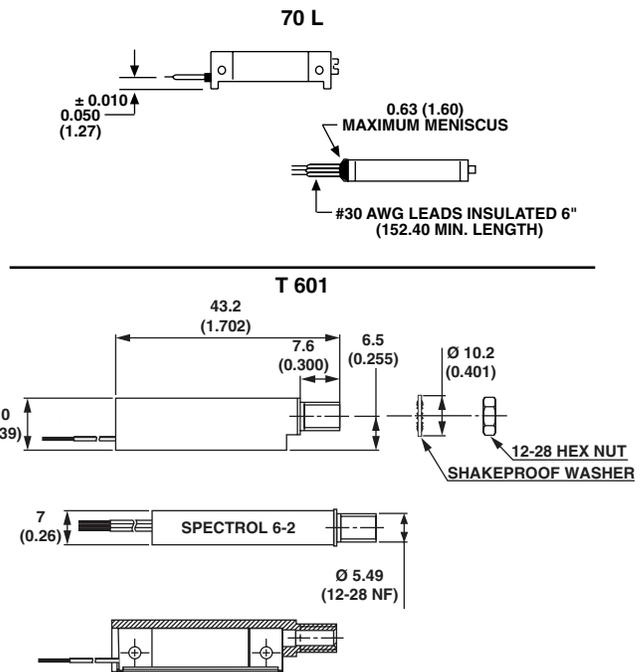
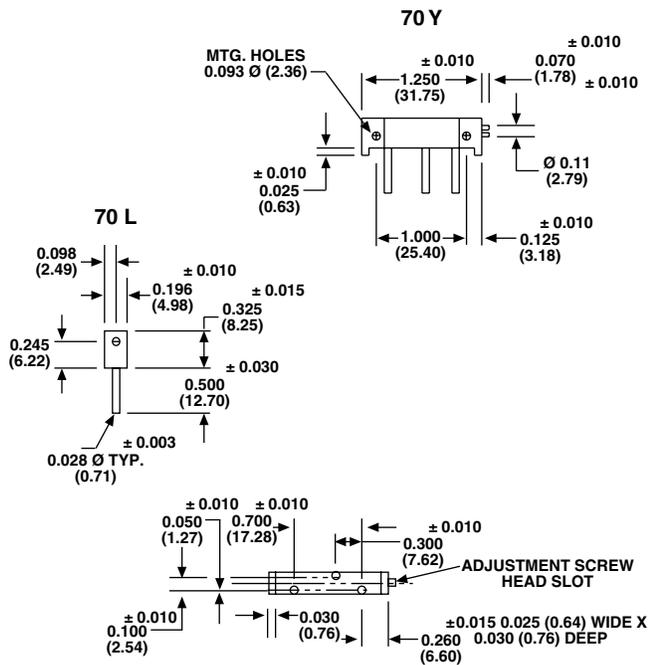


FEATURES

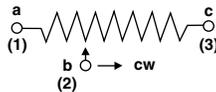
- 0.5 W at 70 °C
- Unique "T" slider block design
- CRV of 3 % or 3 Ω
- RT tolerance ± 10 % STD (± 5 % available)
- Tests according to CECC 41 000



DIMENSIONS in inches (millimeters)



CIRCUIT DIAGRAM



Tolerances unless otherwise specified ± 0.5 mm

ELECTRICAL SPECIFICATIONS	
Resistance Range	10 Ω thru 2 MΩ
Standard Resistance Tolerance	10 %
End Resistance	2 % maximum
Actual Effective Electrical Travel	20 turns nominal
Contact Resistance Variation	3 % or 3 Ω, whichever is greater
Dielectric Withstanding Voltage	1000 VAC at sea level, 350 VAC at 80 000 feet (24.400 meters)
Insulation Resistance	1000 MΩ
Power Rating	0.5 W at 70 °C derated linearly to zero watts at 125 °C (100 °C for leadwire style) maximum voltage not to exceed 350 V
Temperature Coefficient of Resistance (Typical)	± 100 ppm/°C



MECHANICAL SPECIFICATIONS	
Operating Torque	5 oz. in (3.60 Ncm) maximum
Rotational Life	200 cycles with loaded circuit, maximum change in resistance 2 % or 500 cycles without discontinuity unloaded
Weight	0.116 oz. (3.3 g) maximum

ENVIRONMENTAL SPECIFICATIONS			
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta RT/RT$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)
Operating Temperature Range	- 55 °C to + 125 °C (100 °C for leadwire style)	-	-
Terminal Strength	2 lbs (9 N) minimum push/pull	-	-
Sealed	All units sealed to permit cleaning in common solvents immersion	-	-
Thermal Shock	- 55 °C to + 125 °C, 5 cycles (100 °C for leadwire style)	1 %	1 %
Shock	50 g at 11 ms, 3 successive shocks in 3 directions	1 %	1 %
Vibration	10 - 55 Hz 0.75 mm or 10 g for 6 h	1 %	1 %
Load Life	1000 h at rater power 90°/30°	1 %	5 %
High Temperature Exposure	+ 125 °C (100 °C for leadwire style)	1 %	5 %
Resistance to Solder Heat	350 °C for 3 s	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 (Part Number 15 digits)														
M	7	0	L	1	0	3	K	B	2	5				
MODEL		STYLE		OHMIC VALUE		TOLERANCE		PACKAGING CODE		SPECIAL NUMBER				
		L = Leadwire Y = Printed circuit pins		From 10 Ω to 2 M Ω 103 = 10K		K = 10 % On request: J = 5 %		B25 = Box 50 pieces		(If applicable) Given by VISHAY for custom designer				

PART NUMBER DESCRIPTION (for information only)						
70	L	10K	10 %		BO50	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD (Pb)-FREE



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All product specifications and data are subject to change without notice.

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