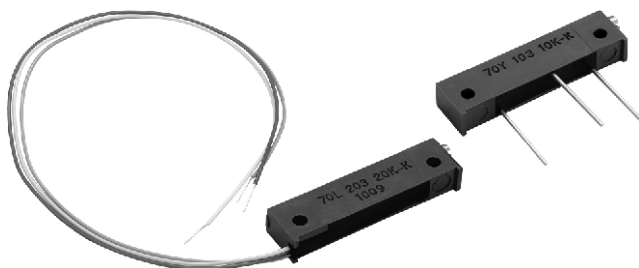


# 1 1/4" Rectangular Multi-Turn Cermet Trimmer



## FEATURES

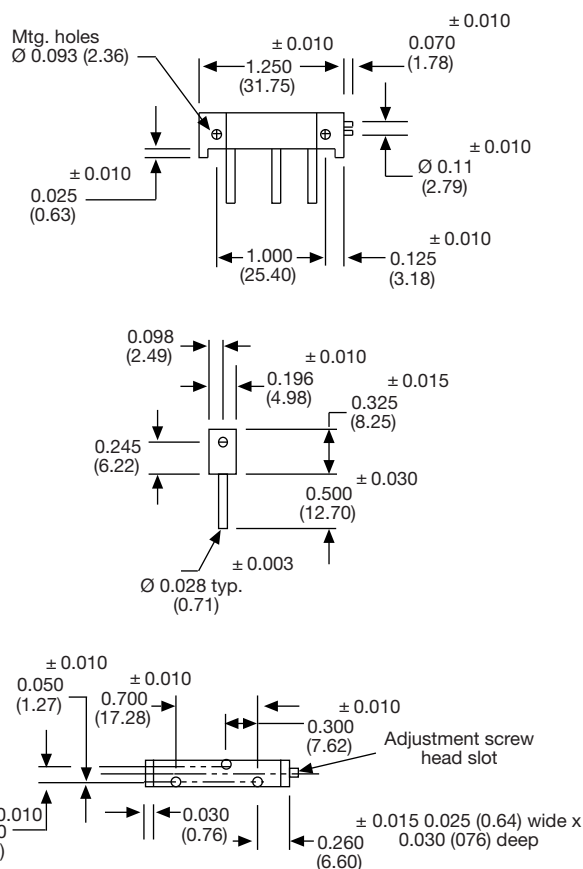
- 0.5 W at 70 °C
- Unique "T" slider block design
- Wire leads available
- CRV of 3 % or 3  $\Omega$
- RT tolerance  $\pm 10$  % STD ( $\pm 5$  % available)
- Tests according to CECC 41000 or IEC 60393-1
- Compliant to RoHS Directive 2002/95/EC



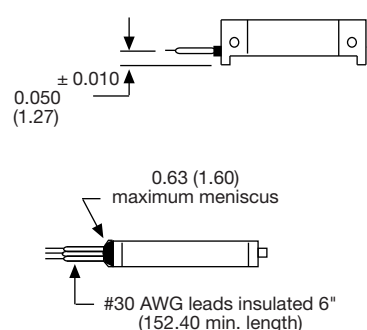
**RoHS**  
COMPLIANT

## DIMENSIONS in inches (millimeters) $\pm 0.02$ " ( $\pm 0.5$ mm)

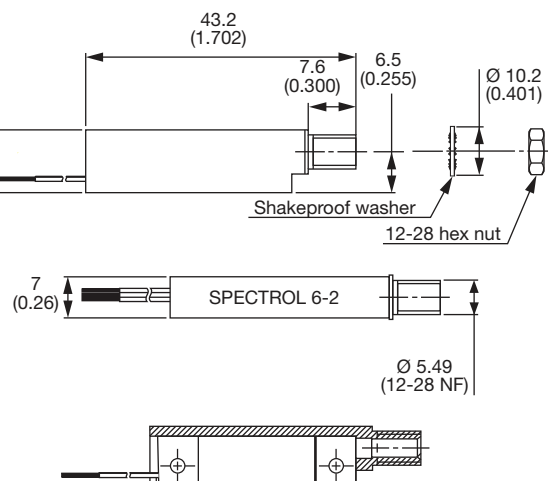
### 70Y



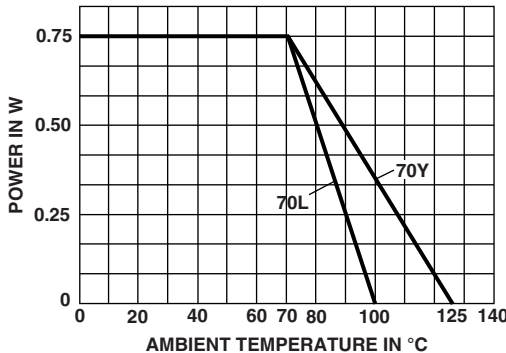
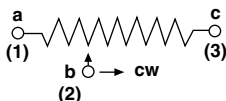
### 70L



### T 601



**ELECTRICAL SPECIFICATIONS**

Resistance range	10 $\Omega$ thru 2 M $\Omega$
Standard resistance tolerance	10 %
End resistance	2 % maximum
Actual effective electrical travel	20 turns nominal
Contact resistance variation	3 % or 3 $\Omega$ , whichever is greater
Dielectric withstanding voltage	1000 V <sub>AC</sub> at sea level, 350 V <sub>AC</sub> at 80 000 feet (24 400 meters)
Insulation resistance	1000 M $\Omega$
Power rating	
Circuit diagram	
Limiting element voltage	350 V
Temperature coefficient of resistance (typical)	$\pm 100$ ppm/ $^{\circ}$ 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
Terminals	Pure Sn (code e3)

**ENVIRONMENTAL SPECIFICATIONS**

Operating temperature range	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C (100 $^{\circ}$ C for leadwire style)
Terminal strength	2 lbs (9 N) minimum push/pull
Sealed	All units sealed to permit cleaning in common solvents immersion

**PERFORMANCES**

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)
Thermal shock	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C, 5 cycles (100 $^{\circ}$ C for leadwire style)	1 %	1 %
Shock	50 g at 11 ms, 3 successive shocks in 3 directions	1 %	1 %
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g for 6 h	1 %	1 %
Load life	1000 h at rated power 90'/30'	1 %	5 %
High temperature exposure	+ 125 $^{\circ}$ C (100 $^{\circ}$ C for leadwire style)	1 %	5 %
Resistance to solder heat	350 $^{\circ}$ C for 3 s	1 %	-



1 1/4" Rectangular Multi-Turn Cermet  
Trimmer

Vishay Spectrol

MARKING

- SPECTROL
- Model
- Ohmic value
- Tolerance
- Circuit diagram
- Manufacturing date

PACKAGING

In box of 50 pieces code B25 (BO50)

ORDERING INFORMATION (Part Number)

M	7	0	L	1	0	3	K	B	2	5				
MODEL	STYLE			OHMIC VALUE			TOLERANCE	PACKAGING CODE			SPECIAL NUMBER			
M70	L = Leadwire Y = Printed circuit pins			From 10 $\Omega$ to 2 M $\Omega$ 103 = 10K			K = 10 % On request: J = 5 %	B25 = Box 50 pieces			(If applicable) Given by Vishay for custom design			

DESCRIPTION (for information only)

70	L	10K	10 %		BO50	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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