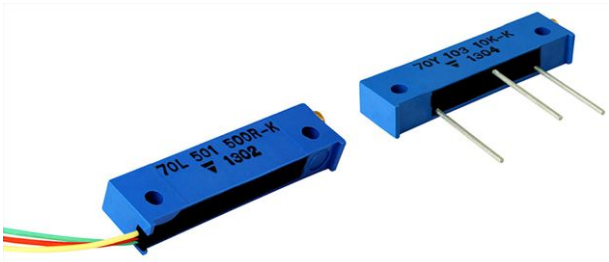
1 1/4" Rectangular Multi-Turn Cermet Trimmer



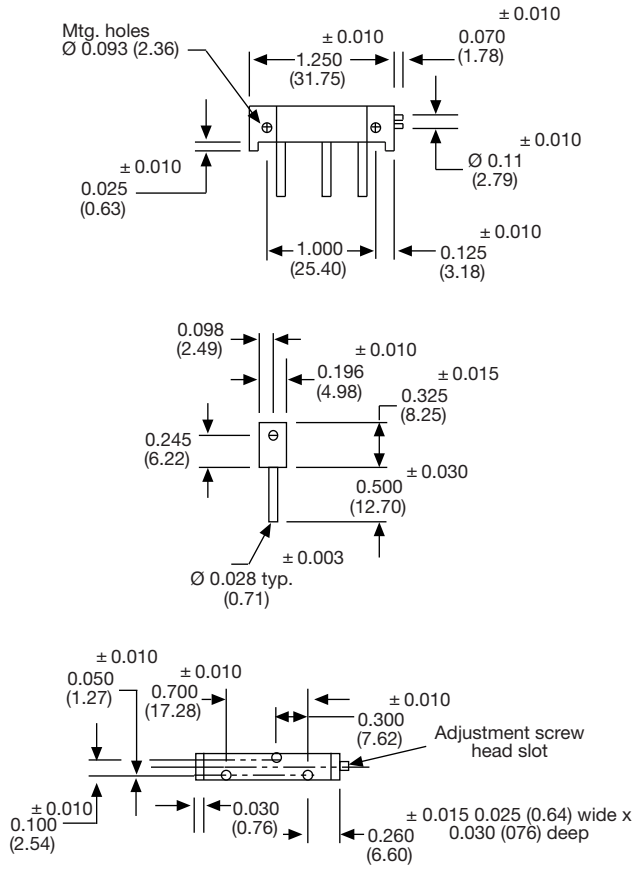
FEATURES

- 0.5 W at 70 °C
- Unique “T” slider block design
- Wire leads available
- CRV of 3 % or 3 Ω
- RT tolerance ± 10 % STD (± 5 % available)
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

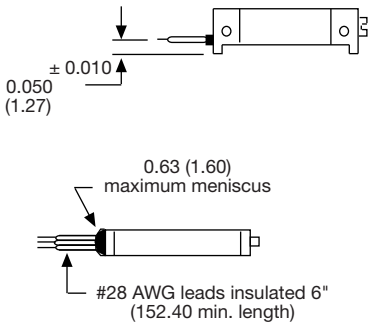
RoHS COMPLIANT

DIMENSIONS in inches (millimeters) ± 0.02" (± 0.5 mm)

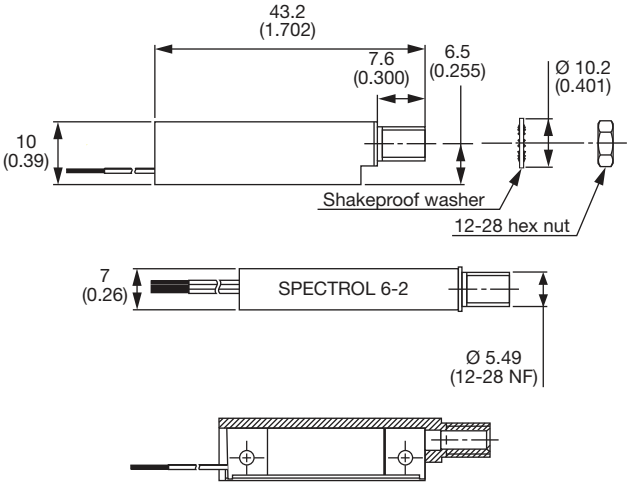
70Y

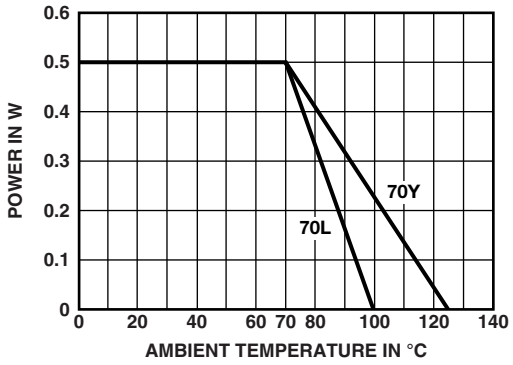
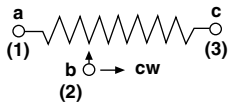


70L



T 601



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 V_{AC} at sea level, 350 V_{AC} at 80 000 feet (24 400 meters)
Insulation resistance	1000 MΩ
Power rating	0.5 W at 70 °C 
Circuit diagram	
Limiting element voltage	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
Terminals	Pure Sn (code e3)

ENVIRONMENTAL SPECIFICATIONS	
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
Climatic category	M70Y: 55/125/21 M70L: 55/100/21

PERFORMANCES			
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta R_T/R_T$ (%)	$\Delta R_{1\text{-}2}/R_{1\text{-}2}$ (%)
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 Hz to 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

- 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 Ω to 2 MΩ **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 (Pb)-FREE

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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.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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