Vishay Spectrol

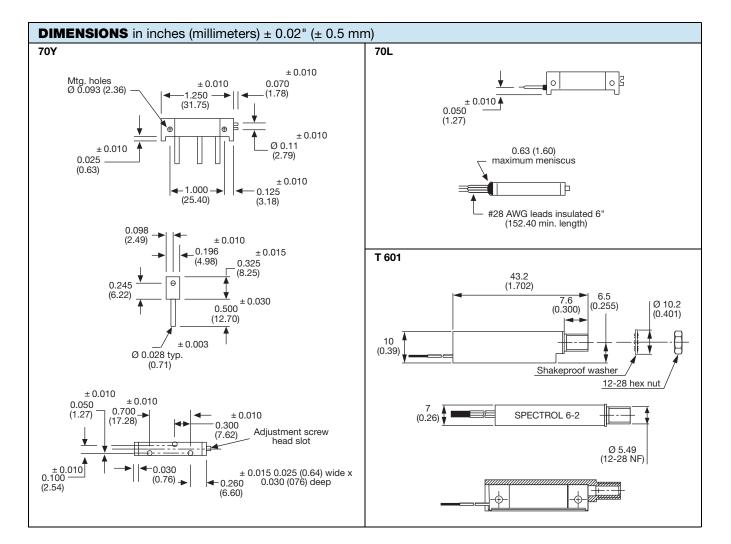


1 1/4" Rectangular Multi-Turn Cermet Trimmer



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 <u>www.vishay.com/doc?99912</u>





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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)		
nsulation resistance	1000 ΜΩ		
Power rating	0.5 W at 70 °C		
Circuit diagram	$ \begin{array}{c} a \\ \circ \\ (1) \\ b \\ \circ \\ c \\ (3) \\ (3) \\ (2) \\ \end{array} $		
Limiting element voltage	350 V		
Temperature coefficient of resistance (typical)	± 100 ppm/°C		

Operating torque	5 oz. in (3.60 Ncm) maximum	
Rotational life 200 cycles with loaded circuit, maximum change in resistance 2 % 500 cycles without discontinuity unloaded		
Weight	0.116 oz. (3.3 g) maximum	
Terminals	Pure Sn (code e3)	

Note

• Nothing stated herein shall be construed as a guarantee of quality or durability.

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	
12313	CONDITIONS	∆ R_T/R_T (%)	∆ R₁₋₂/R₁₋₂ (%)
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 <i>g</i> 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 %	-

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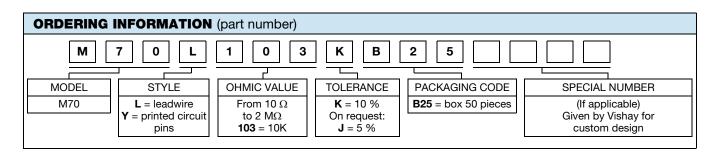
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MARKING

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

PACKAGING

In box of 50 pieces code B25 (BO50)



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

RELATED DOCUMENTS		
APPLICATION NOTES		
Potentiometers and Trimmers	www.vishay.com/doc?51001	
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029	
Selector guide	www.vishay.com/doc?49286	

ACCESSORIES	
Screwdrivers (to order separately)	www.vishay.com/doc?57015

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