Vishay Spectrol

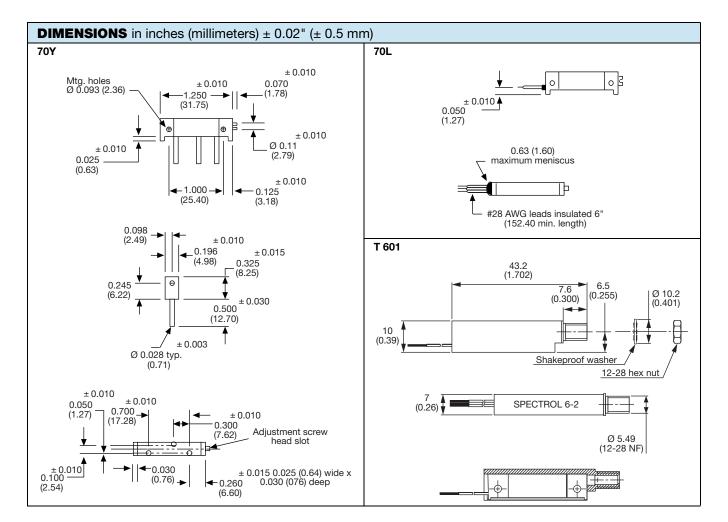
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# 1 1/4" Rectangular Multi-Turn Cermet Trimmer



### 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>



1 For technical questions, contact: <u>sferpottrimmers@vishay.com</u>



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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 ΜΩ		
Power rating	$ \begin{array}{c} 0.6\\ 0.5\\ 0.4\\ 0.3\\ 0.2\\ 0.1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		
Circuit diagram	$ \begin{array}{c} a \\ (1) \\ b \\ (2) \end{array} \begin{array}{c} c \\ (3) \\ (3) \\ (3) \end{array} $		
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)		

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		
	CONDITIONS	∆R <sub>T</sub> /R <sub>T</sub> (%)	∆R <sub>1-2</sub> /R <sub>1-2</sub> (%)	
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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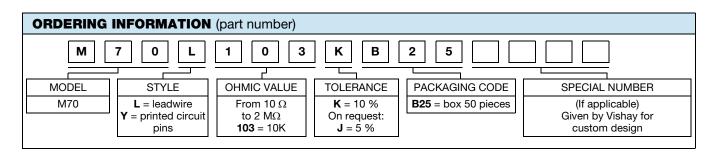
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#### MARKING

- 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	

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