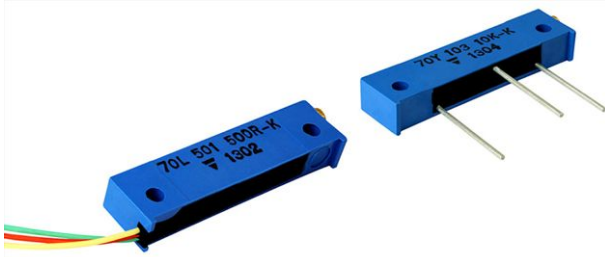


1 1/4" Rectangular Multi-Turn Cermet Trimmer

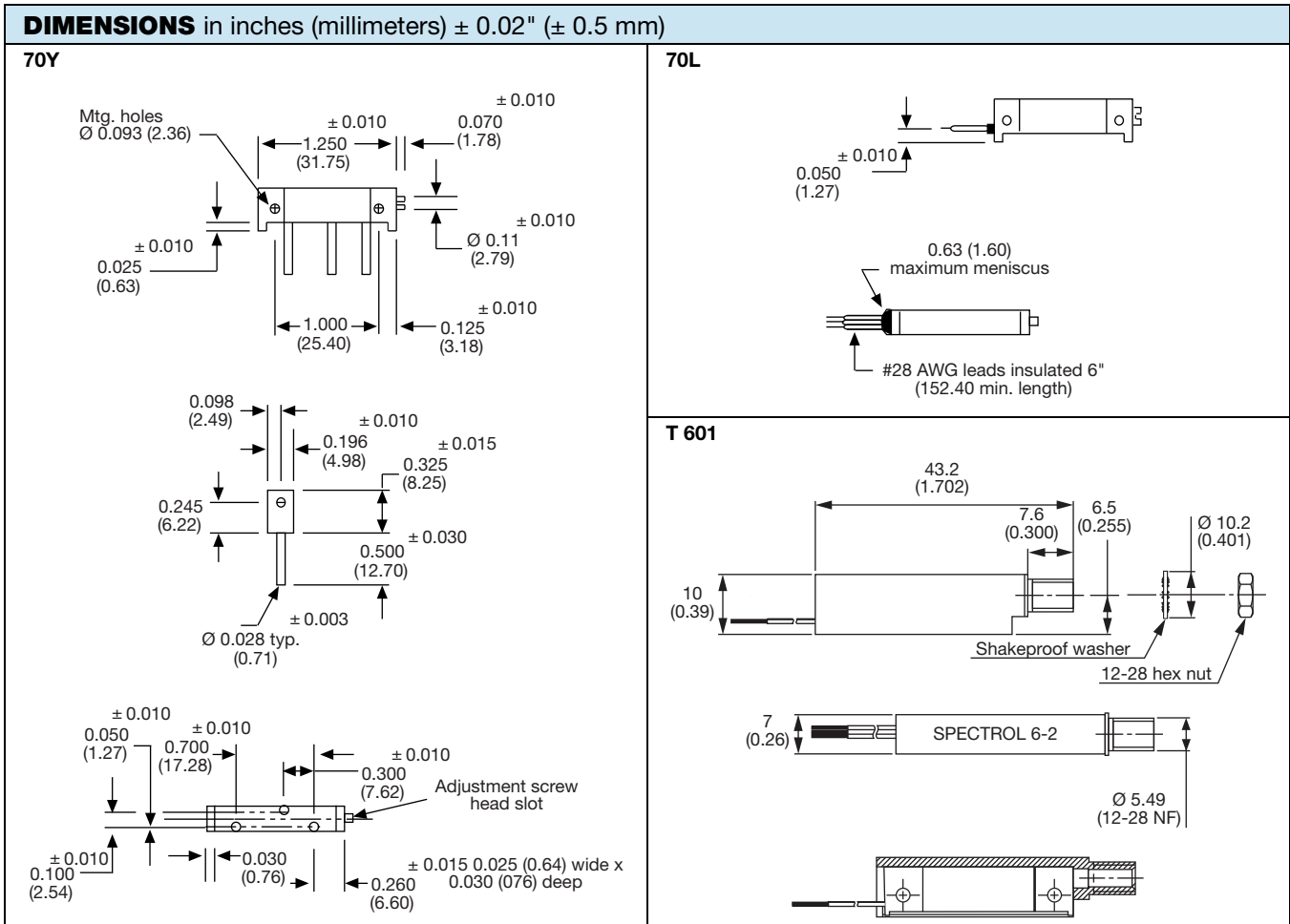


FEATURES

- 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



ELECTRICAL SPECIFICATIONS																																								
Resistance range	10 Ω thru 2 M Ω																																							
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 M Ω																																							
Power rating	<p>0.5 W at 70 °C</p> <table border="1"> <caption>Power Rating vs Ambient Temperature</caption> <thead> <tr> <th>Ambient Temperature (°C)</th> <th>70L Power (W)</th> <th>70Y Power (W)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.5</td><td>0.5</td></tr> <tr><td>20</td><td>0.5</td><td>0.5</td></tr> <tr><td>40</td><td>0.5</td><td>0.5</td></tr> <tr><td>60</td><td>0.5</td><td>0.5</td></tr> <tr><td>70</td><td>0.5</td><td>0.5</td></tr> <tr><td>80</td><td>0.33</td><td>0.4</td></tr> <tr><td>90</td><td>0.17</td><td>0.25</td></tr> <tr><td>100</td><td>0</td><td>0.1</td></tr> <tr><td>110</td><td>-</td><td>0</td></tr> <tr><td>120</td><td>-</td><td>0</td></tr> <tr><td>125</td><td>-</td><td>0</td></tr> <tr><td>140</td><td>-</td><td>0</td></tr> </tbody> </table>	Ambient Temperature (°C)	70L Power (W)	70Y Power (W)	0	0.5	0.5	20	0.5	0.5	40	0.5	0.5	60	0.5	0.5	70	0.5	0.5	80	0.33	0.4	90	0.17	0.25	100	0	0.1	110	-	0	120	-	0	125	-	0	140	-	0
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140	-	0																																						
Circuit diagram																																								
Limiting element voltage	350 V																																							
Temperature coefficient of resistance (typical)	\pm 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	
		$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)
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
<ul style="list-style-type: none"> • 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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