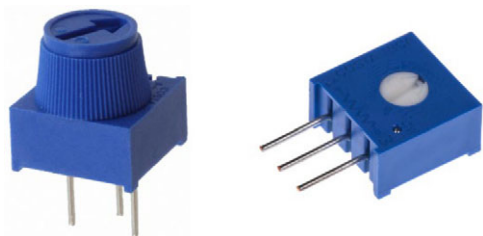


3/8" Square Single-Turn Cermet Trimmer



FEATURES

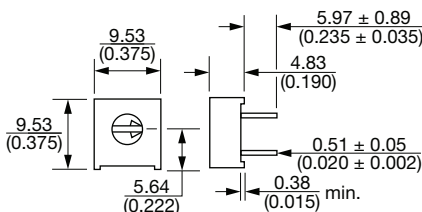
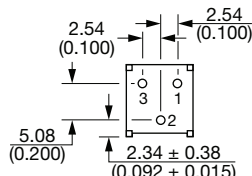
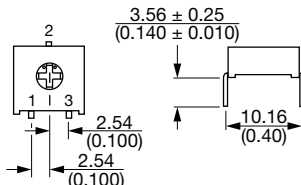
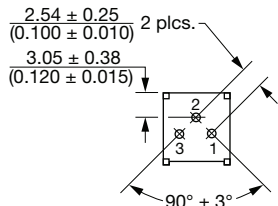
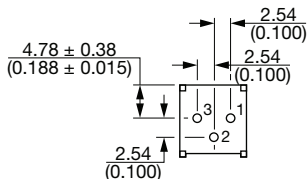
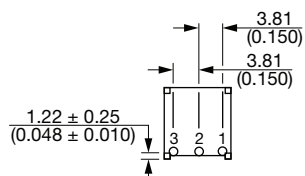
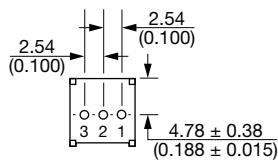
- Wide ohmic range (10 Ω to 2 M Ω)
- Top and side adjust styles
- Easy to set with knob option (finger adjust)
- Available with extended shaft
- Available with cross-slot rotor
- Construction: sealed
- Industrial grade
- Material categorization: for definitions of compliance please see www.vishay.com/doc299912

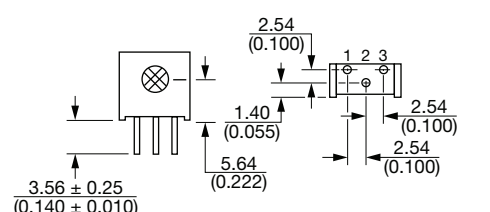
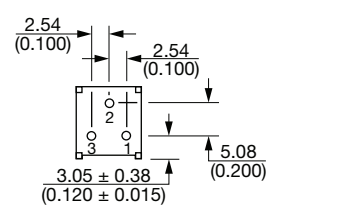
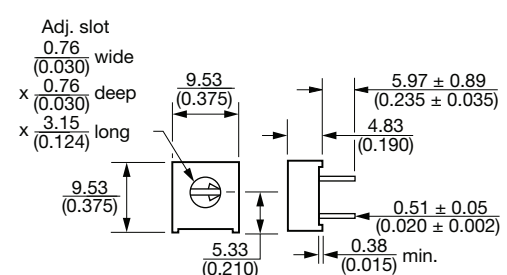
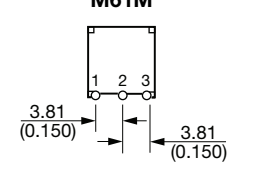
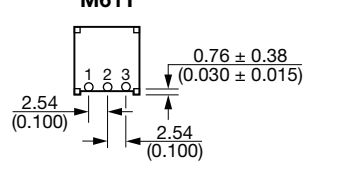
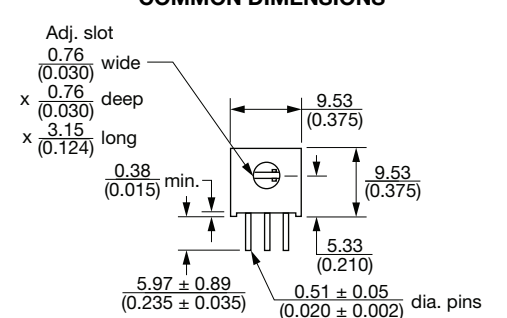
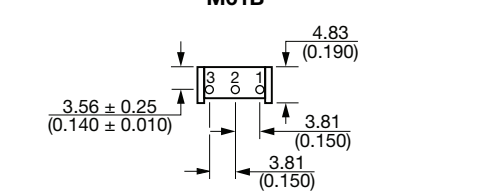
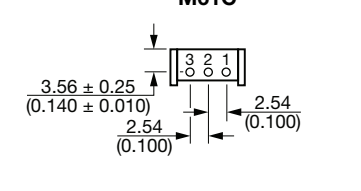
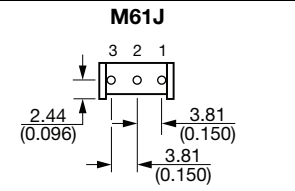
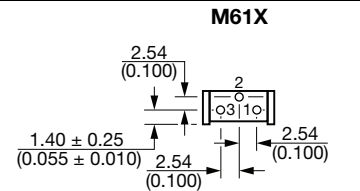

RoHS
COMPLIANT

LINKS TO ADDITIONAL RESOURCES

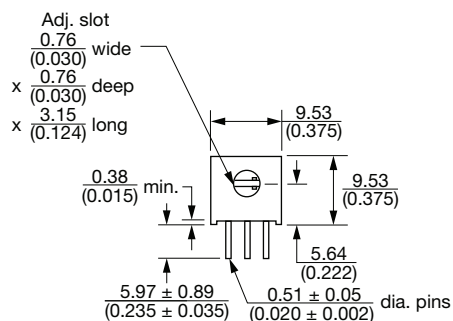
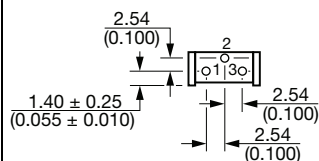
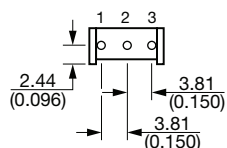
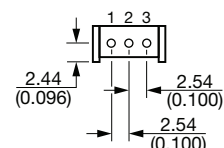
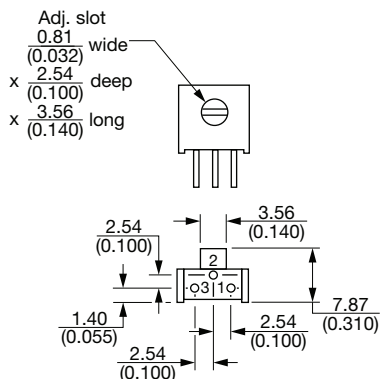
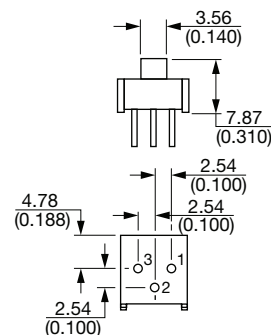
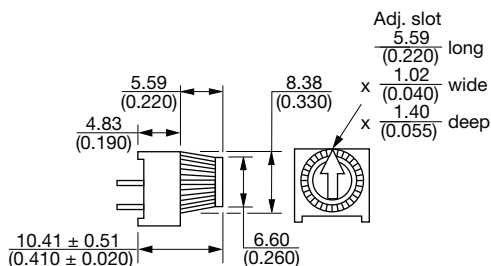


The M61 trimming potentiometer is available in several pin configurations for top or side adjustment and with a choice of knob styles for finger setting.

DIMENSIONS in millimeters (± 0.5 mm)	
TOP ADJUST: STYLE F, G, K, P, R, U, V, Y	
COMMON DIMENSIONS 	
M61F 	M61G 
M61K 	M61P 
M61R 	M61U 

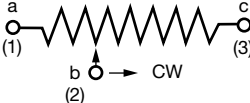
DIMENSIONS in millimeters (± 0.5 mm)	
M61V 	M61Y 
TOP ADJUST: STYLE M, T COMMON DIMENSIONS 	
M61M 	M61T 
SIDE ADJUST: STYLE B, C, J, X COMMON DIMENSIONS 	
M61B 	M61C 
M61J 	M61X 

DIMENSIONS in millimeters (± 0.5 mm)

SIDE ADJUST: STYLE H, S, W
COMMON DIMENSIONS

M61H

M61S

M61W

LONG SHAFT OPTION: T614
TOP AND SIDE ADJUST: STYLE H, X, P
M61H.....T614, M61X.....T614

M61P.....T614

KNOB OPTION (1): T607
TOP ADJUST: STYLE F, P, X

Note

(1) Knob option not recommended for side load applications

**ELECTRICAL SPECIFICATIONS**

Resistive element	Cermet
Electrical travel	280° nom.
Resistance range	10 Ω to 2 MΩ (see “Standard Resistance Element Data” table)
Standard series	1 - 2 - 5
Tolerance standard	± 10 %
Circuit diagram	
Power rating	Linear
Power rating	0.5 W at +70 °C
Power rating	0 W at +125 °C
Temperature coefficient	± 100 ppm/°C
Limiting element voltage	300 V _{max.}
Voltage divider adjustability	± 0.05 %
Rheostat adjustability	± 0.15 %
Contact resistance variation	2 % or 3 Ω max. (whichever is greater)
End resistance (typical)	2 Ω max.
Dielectric strength	900 V _{AC}
Insulation resistance	1000 MΩ min. at 500 V _{DC}

MECHANICAL SPECIFICATIONS

Mechanical travel	310 mon.
Operating torque (max. Ncm)	3.5
Unit weight (typical)	0.85 g
Wiper (actual travel)	Positioned at approximately 50 %
Terminals	Pure Sn (code e3)

ENVIRONMENTAL SPECIFICATIONS

Temperature range	-55 °C to +125 °C
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PERFORMANCES

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS
Load life	1000 h at rated power, ambient temperature +85 °C	Total resistance shift = $\pm 3\%$ Contact resistance variation = 3 Ω or $\pm 3\%$ whichever is greater
Humidity	MIL-STD-202 method 103 96 hours	Total resistance shift = $\pm 2\%$ Insulation resistance = 10 M Ω
Rotational cycling	200 cycles	Total resistance shift = $\pm 4\%$ Contact resistance variation = 3 Ω or $\pm 3\%$ whichever is greater
Shock	100 g	Total resistance shift = $\pm 1\%$ Voltage resistance shift = $\pm 1\%$
Vibration	30 g	Total resistance shift = $\pm 1\%$ Voltage resistance shift = $\pm 1\%$

Note

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

**STANDARD RESISTANCE**

RESISTANCE (Ω)	RESISTANCE CODE
10	100
20	200
50	500
100	101
200	201
500	501
1000	102
2000	202
5000	502
10 000	103
20 000	203
25 000	253
50 000	503
100 000	104
200 000	204
250 000	254
500 000	504
1 000 000	105
2 000 000	205

MARKING

- Vishay trademark
- Model
- Ohmic value
- Manufacturing date

PACKAGING

In tube of 50 pieces code T20 (TU50)

ORDERING INFORMATION (part number)

M	6	1	Y	1	0	3	K	T	2	0	T	6	0	7
MODEL	STYLE			OHMIC VALUE			TOLERANCE		PACKAGING		SPECIAL NUMBER			
M61	B, C, E, G, H, J, K, M, P, R, S, T, U, V, W, X, Y			From 10 Ω to 2 M Ω 103 = 10 k Ω			K = $\pm 10\%$		T20 = tube 50 pieces		(If applicable) T614 = long shaft option T607 = knob option ⁽¹⁾			

Note⁽¹⁾ Not recommended for side load application**DESCRIPTION** (for information only)

M61	Y	10K	10 %	T607	T20	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

ACCESSORIES

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