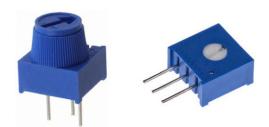


3/8" Square Single-Turn Cermet Trimmer



FEATURES

Industrial grade



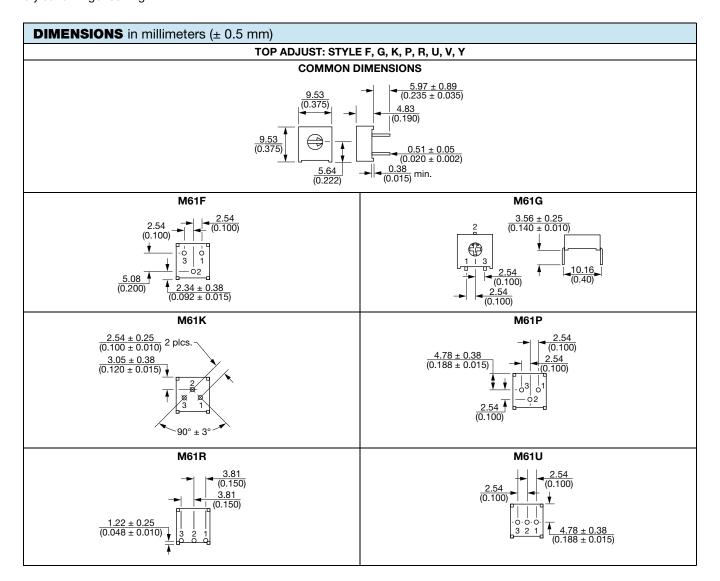


- Top and side adjust styles
- Easy to set with knob option (finger adjust)
- · Available with extended shaft
- · Available with cross-slot rotor
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

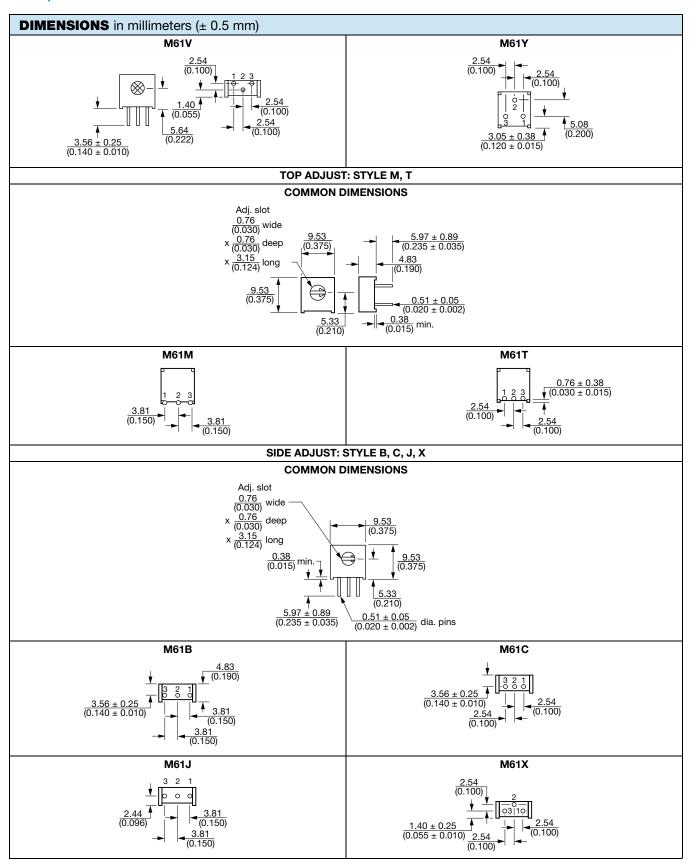
LINKS TO ADDITIONAL RESOURCES



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) SIDE ADJUST: STYLE H, S, W **COMMON DIMENSIONS** Adj. slot $\frac{0.76}{(0.030)}$ wide $\times \frac{0.76}{(0.030)}$ deep $\times \frac{3.15}{(0.124)}$ long $\frac{0.38}{(0.015)}$ min. - $\frac{0.01 \pm 0.05}{(0.020 \pm 0.002)}$ dia. pins 0.51 ± 0.05 M61H M61S M61W 2.44 (0.096) **LONG SHAFT OPTION: T614** TOP AND SIDE ADJUST: STYLE H, X, P M61P.....T614 M61H......T614, M61X......T614 Adj. slot $\frac{0.81}{(0.032)}$ wide $\frac{2.54}{(0.100)}$ deep $\frac{3.56}{(0.140)}$ long KNOB OPTION (1): T607 TOP ADJUST: STYLE F, P, X $\frac{0.09}{(0.220)}$ long $\times \frac{1.02}{(0.040)}$ wide (0.220) $\frac{1.40}{(0.055)}$ deep 10.41 ± 0.51 (0.410 ± 0.020)

Note

(1) Knob option not recommended for side load applications



Vishay Sfernice

ELECTRICAL SPECIFICATIONS				
Resistive element		Cermet		
Electrical travel		280° nom.		
Resistance range		10 Ω to 2 $M\Omega$ (see "Standard Resistance Element Data" table)		
Standard series		1 - 2 - 5		
Tolerance standard		± 10 %		
Circuit diagram		$ \begin{array}{cccc} \overset{a}{\circ} & & & & & \overset{c}{\circ} \\ \overset{b}{\circ} & & & & & & & \\ \overset{b}{\circ} & & & & & & & \\ \overset{(2)}{\circ} & & & & & & & \\ \end{array} $		
Power rating	linear	0.5 W at +85 °C		
		0 W at +125 °C		
Temperature coefficient		± 100 ppm		
Limiting element voltage		300 V _{max.}		
Voltage divider adjustability Rheostat adjustability		± 0.05 % ± 0.15 %		
Contact resistance variation		2 % or 3 Ω max. (whichever is greater)		
End resistance (typical)		2Ω max.		
Dielectric strength		900 V _{AC}		
Insulation resistance		1000 M Ω 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

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 = ± 1 % Voltage resistance shift = ± 1 %		
Vibration	30 g	Total resistance shift = ± 1 % Voltage resistance shift = ± 1 %		

Note

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



Vishay Sfernice

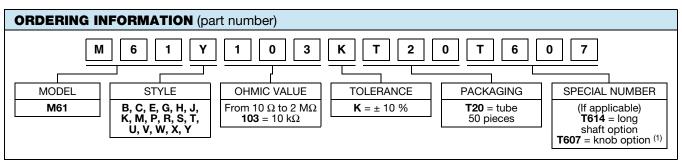
STANDARD RESISTANCE		
RESISTANCE (Ω)	RESISTANCE CODE	
10	100	
20	200	
50	500	
100	101	
200	201	
500	501	
1000	102	
2000	202	
5000	502	
10 000	103	
20 000	203	
25 000	253	
50 000	503	
100 000	104	
200 000	204	
250 000	254	
500 000	504	
1 000 000	105	
2 000 000	205	

MARKING

- · Vishay trademark
- Model
- Ohmic value
- Manufacturing date

PACKAGING

In tube of 50 pieces code T20 (TU50)



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.vishav.com/doc?52029	

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



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