

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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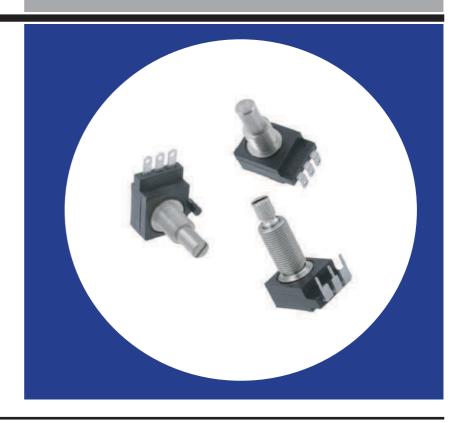


Series 282 Data Sheet Precision Potentiometer

Industrial 16mm Size Conductive Plastic Precision Rotary Sensor

Features

- Robust Construction
- 2 Million Cycle Life
- 2% Precision Linearity
- Water Resistant (IP54, IP67)
- Wide Temperature Range
- Solder Lug, Faston, PC Terminal
- Continuous Rotation Available
- RoHS Compliant



Electrical and Mechanical Specifications

Resistance Range

1 K through 500 K ohms, linear Consult CTS for audio taper

Resistance Tolerance

± 10%, ± 20%

Power Rating

0.25 watts @ 55°C

Dielectric Strength

750 VDC for 1 minute

Maximum Operating Voltage

500 VDC

Insulation Resistance

1000 Megohms minimum @ 500 VDC

Angle of Rotation

250°, 300°, 360°

(Refer to Resistance Tapers for detail)

Rotational Torque

3 - 50 gf-cm

Stop Strength

9 kgf-cm minimum

Push-Pull Strength of Shaft

13.6 kg for 10 seconds

Mounting Information

Bushing Mount

Rotational Life

2 M cycles

Linearity

± 2%

Temperature

Operating: -40°C to 125°C Storage: -55°C to 150°C

Solder Heat Resistance

350°C for 5 seconds

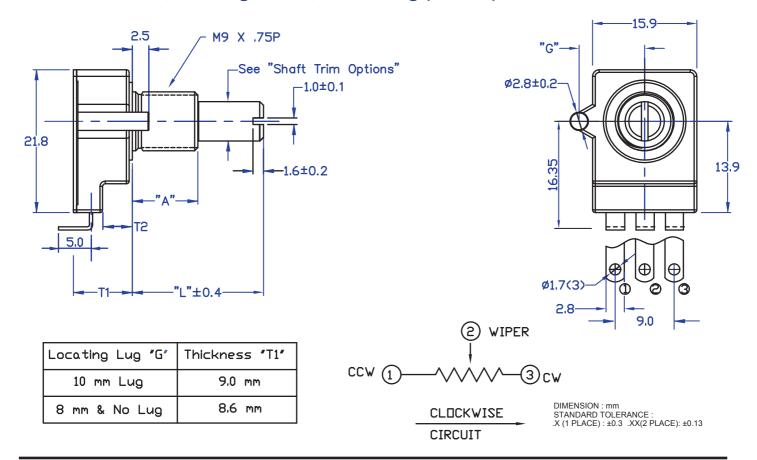
Ingress Protection Rating

IP54, IP67

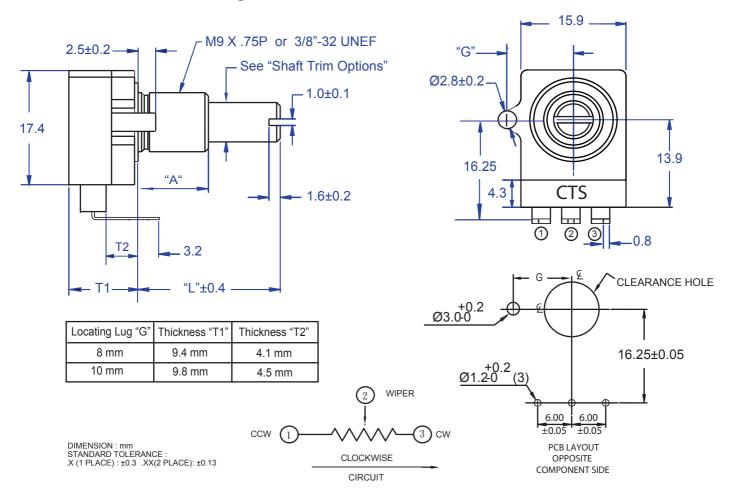
Vibration

15G, 10 to 2000 Hz

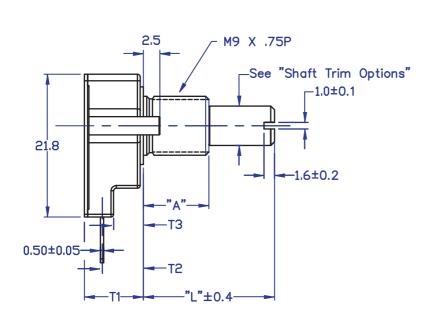
282S Metal Shaft, Bushing Mount, Solder Lug (Faston) Terminal Formed to Rear

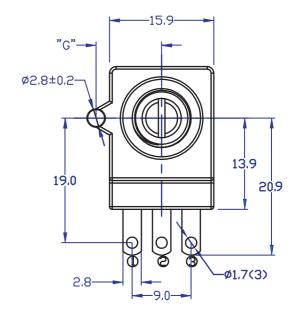


282U Metal Shaft, Bushing Mount, PC Terminal Formed to Front

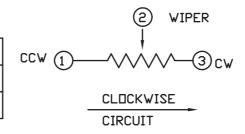


282T Metal Shaft, Bushing Mount, Solder Lug (Faston) Terminal





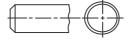
Locating Lug "G"	Thickness "T1"	
10 mm Lug	9.0 mm	
8 mm & No Lug	8.6 mm	



DIMENSION: mm STANDARD TOLERANCE: .X (1 PLACE): ±0.3 .XX(2 PLACE): ±0.13

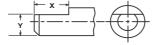
Shaft Trim Options





Shaft Trim	Diameter	
R	.236" (6.00 mm)	
0	.250" (6.35 mm)	

FLATTED



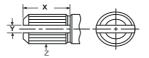
Shaft Trim	Diameter	Х	Y	
F	.236" (6.00 mm)	.375" (9.52 mm)	.156" (3.96 mm)	
L	.250" (6.35 mm)	.440" (11.18 mm)	.217" (5.50 mm)	

SD SLOT



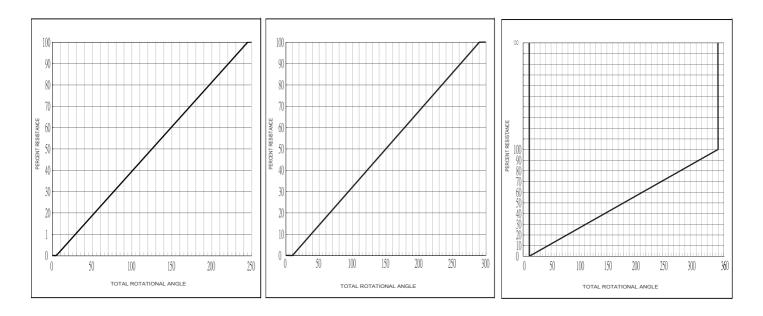
Shaft Trim	Diameter	Х	Y
S	.236" (6.00 mm) .063"		.039" (1.0mm)
D	.250" (6.35 mm)	.063" (1.6mm)	.039" (1.0mm)

KNURLED & SLOTTED



Shaft Trim	Diameter	х	Y	Z
К	.236" (6.00 mm)	.344" (8.74 mm)	.063" (1.60 mm)	24 Teeth

Resistance Tapers

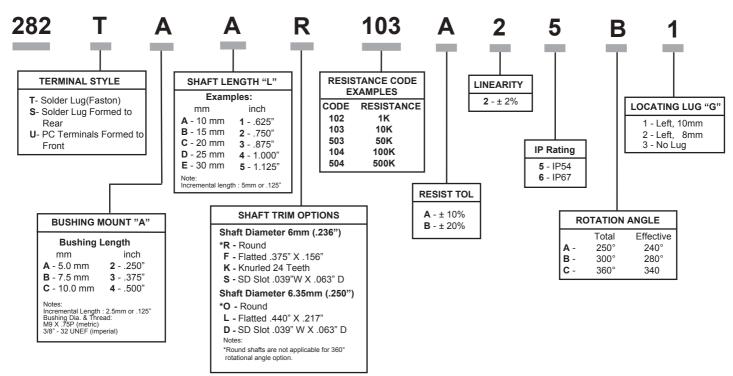


TOTAL ROTATIONAL ANGLE: 250

TOTAL ROTATIONAL ANGLE: 300°

TOTAL ROTATIONAL ANGLE: 360°

Ordering Information



Please consult factory for other mounting options or custom features not listed.

Standard Part - 282T33L502A25A2, 282T33L502A25C2, 282TCBS103A25B1 282T33L502A26A2, 282T33L502A26C2, 282TCBS103A26B1