

Series 282

16mm Precision Rotary Potentiometer

- Conductive Plastic Element
- Extended Rotational Life (2 Million Cycles)
- Precision Linearity (±2%)
- Ingress Protection (IP65 & IP67 Options)
- Wide Operating Temperature Range
- Shaft and Bushing Length Options
- Terminal Options
- Continuous Rotation Available



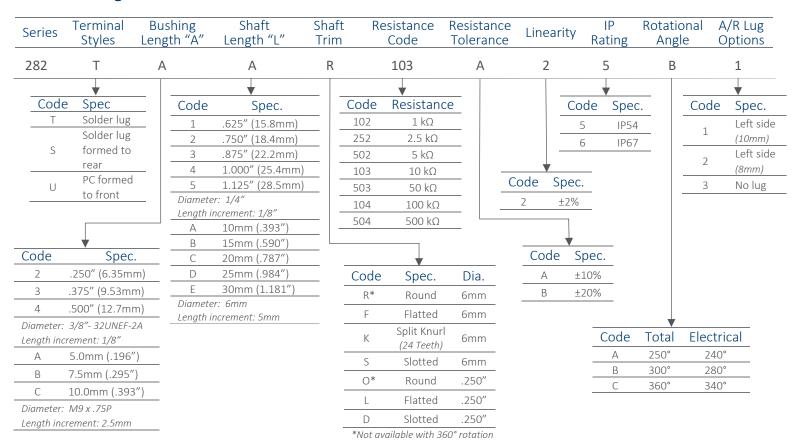


RoHS

Description

The 282 Series robust construction provides the user with a long life, highly reliable precision product in a sealed housing which meets up IP standards. Options include various terminal configurations, shaft and bushing lengths, shaft styles, resistance values and tolerances, and various rotation angles to meet design requirements.

Ordering Information



Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Resistance Range	Linear	1k	500k	Ω
Resistance Range	Audio	100k	500k	Ω
Resistance Tolerance	Standard	-20	+20	%
Resistance Tolerance	Special	-10	+10	%
Dielectric Strength	1 minute		750	VDC
Power Rating (Standard)	g (Standard) @ 55°C		0.25	watt
Power Rating (Special)	@ 75°C 0.50		0.50	watt
Operating Voltage			500	VDC
Insulation Resistance 500 VDC 1000		1000		ΜΩ
Linearity		+2	-2	%

Mechanical and Environmental

Parameter	Conditions & Remarks	Min	Max	Unit	
Operating Temperature		-40	+125	°C	
Storage Temperature		-55	+150	°C	
Rotational Torque		180	gf-cm		
Rotational Life			cycles		
Stop Strength		9		kgf-cm	
Mechanical Angle	250°, 300° & 360°				
Vibration	15 G, 10 to 2000 Hz				
Push-Pull Strength of Shaft	13.6 kg for 10 seconds				
Ingress Protection Rating	IP54 & IP67				
Soldering Condition:	Maximum temperature of 350°C for 5 seconds				
Mounting Information	Bushing mount				
Packaging:	Standard tray packaging				

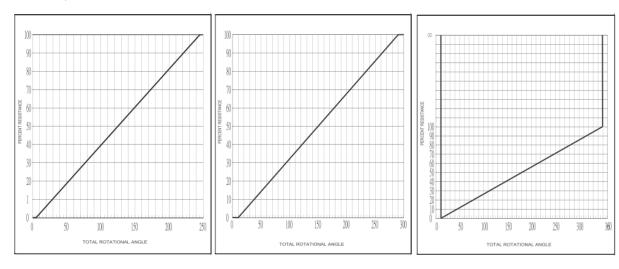
All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications.

This product is compliant to RoHS3 Directive 2015/863 Amendments of Annex II on 31 March 2015, and REACH SVHC Directive EC 1907/2006 Amendments of Annex XIV & Annex XVII on 15 January 2018.

Custom and value-added options available on request. Please contact your sales representative for additional information.

Electrical and Mechanical Specifications

Resistance Tapers



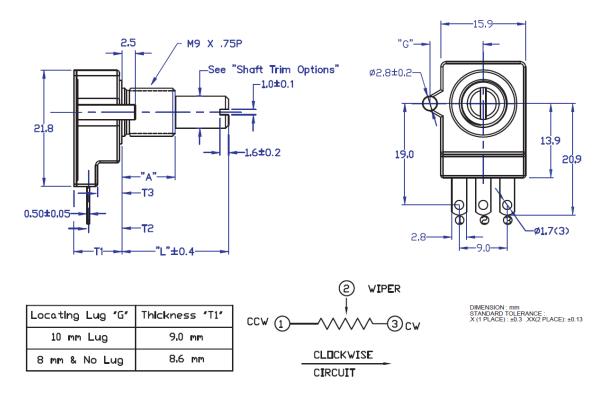
TOTAL ROTATIONAL ANGLE: 250

TOTAL ROTATIONAL ANGLE: 300°

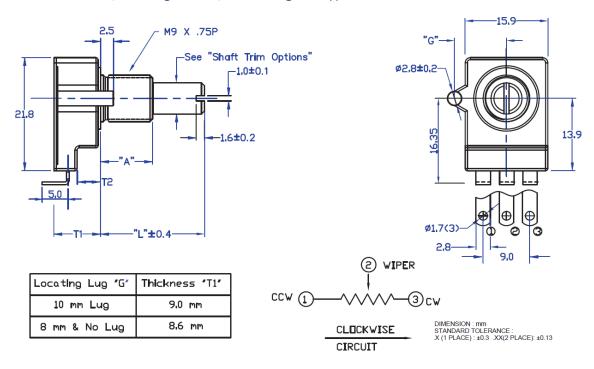
TOTAL ROTATIONAL ANGLE: 360°

Electrical and Mechanical Specifications

Series 282T Metal Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 8 mm Locating Lug

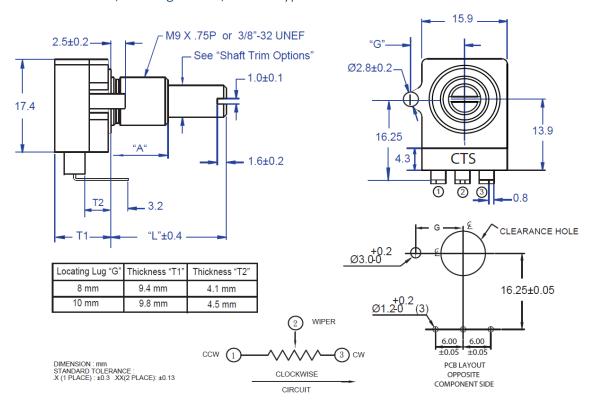


Series 282S Metal Shaft, Bushing Mount, Solder Lug "S" Type Terminal Formed to Rear



Electrical and Mechanical Specifications

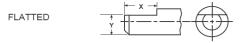
Series 282U Metal Shaft, Bushing Mount, PC "U" Type Terminal Formed to Front



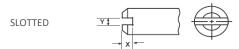
Shaft Trim and Diameter Options



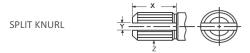
Shaft Trim	Diameter
R	.236" (6.00 mm)
0	.250" (6.35 mm)



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)



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



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS:

<u>282T33L502A26A2</u> <u>282T33L502A26C2</u> <u>282T33L502A25A2</u> <u>282T33L502A25C2</u> <u>282TCBS103A25B1</u> 282TCBS103A26B1