

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



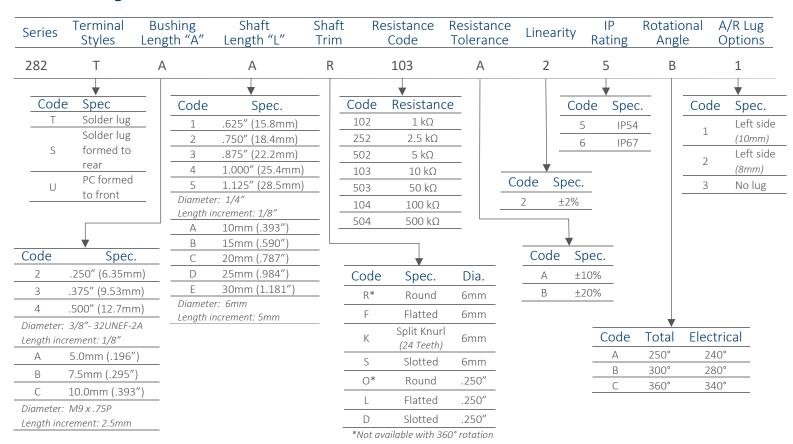


RoHS

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	
Parietanas Talaranas	Standard	-20	+20	%	
Resistance Tolerance	Special	-10	+10	%	
Dielectric Strength	1 minute		750	VDC	
Power Rating (Standard)	andard) @ 55°C 0		0.25	watt	
Power Rating (Special)	@ 75°C	@ 75°C 0.50		watt	
Operating Voltage			500	VDC	
Insulation Resistance 500 VDC 1000		1000		MΩ	
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				

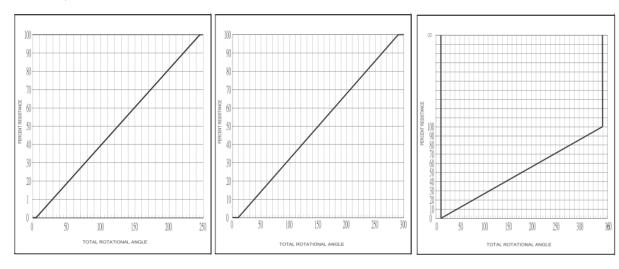
All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications.

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



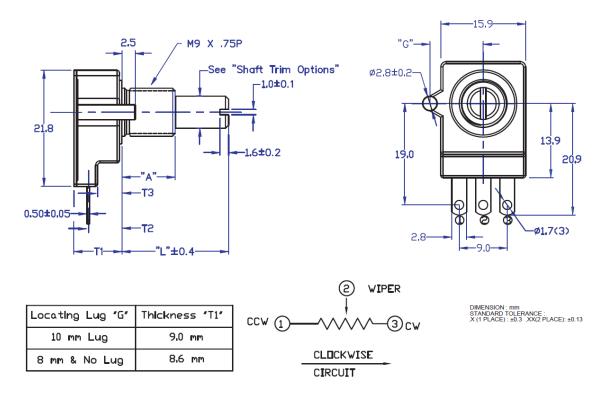
TOTAL ROTATIONAL ANGLE: 250

TOTAL ROTATIONAL ANGLE: 300°

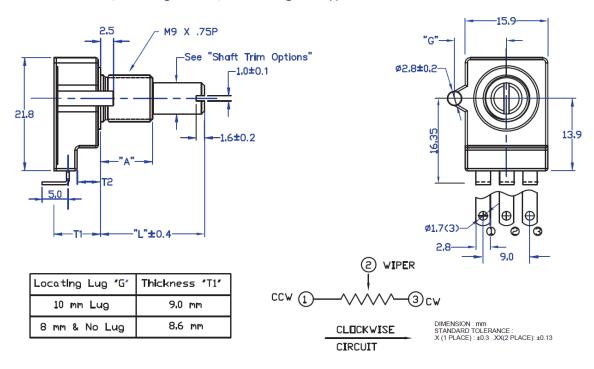
TOTAL ROTATIONAL ANGLE: 360°

Electrical and Mechanical Specifications

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

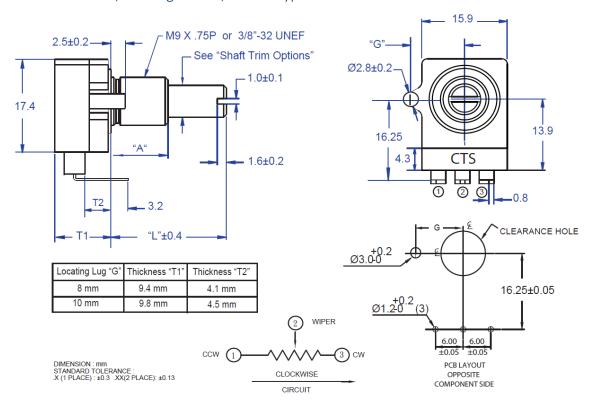


Series 282S Metal Shaft, Bushing Mount, Solder Lug "S" Type Terminal Formed to Rear



Electrical and Mechanical Specifications

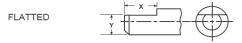
Series 282U Metal Shaft, Bushing Mount, PC "U" Type Terminal Formed to Front



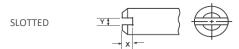
Shaft Trim and Diameter Options



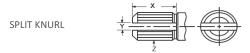
Shaft Trim	Diameter
R	.236" (6.00 mm)
0	.250" (6.35 mm)



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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Precision Potentiometers category:

Click to view products by CTS manufacturer:

Other Similar products are found below:

578002M9648 70J1G032S202A 176FL1-284 F78SB102-M257 3548H-1AA-103B 485025M9267 MH12B-10L-10K 578005M9656

72N4N048S203W RO200SF1C103 114BF2A102-L774 200FL1-199 78FL1-397 78MKV-128 501-0004 501-0018 SE15303-352-T4

284TCBF103A26A1 RO34SF1B502 200FL1-260 4205R10KL.5 3548H-1AB-502A 157-0237 1521R10KL.3 284TBBK103A26B1 SP22G-500 DC22-10-100 JC22S 1K 0.5% RCL-100 RCL-200 3590P-4-503L 380C2750K 3548H-1AA-102B 380C2500K 3590P-1-103L 3547S-1AA-202A 534B1250JC 3540S-91-502L 3543S-1-202L 3543S-1-102L 3543S-1-502L 3545S-1-103L 3549S-2AA-102/102A P3265 P3270

P3275 P3280 P3285 P3290 6637S-1-102