

# Series 287 24mm Rotary Potentiometer

- Ceramic Printed Element
- High Rated Power: 2 watts
- Rotational Torque: 600 ± 200 gf-cm
- Rotational Life: 100,000 cycles
- Ingression Protection Rating: IP50
- Rugged Metal Shaft and Bushing
- Solder Lug, PC Mount and Flexible Lead Options



# **Ordering Information**

Series	Terminal Style	Mounting Style "A"	Shaft Length "L"	Shaft Trim	Re	esistance Code		stance rance	Taper	A/R Lug Options
287	Т	2	20	R		103		В	1	1
Cod X T C	e Spec. PC mount Solder Lugs Wire leads (100 mm length) 2 3 4 5 Diameter	12 16 20 24 28 32 40 64 80 Diame Length	Metal Shaft .375" (9,53 mm) * .500" (12,7 mm) * .625" (15,88 mm) .750" (19,05 mm) .875" (22,23 mm) 1.00" (25,4 mm) 1.25" (31,75 mm) 2.00" (50,8 mm) 2.50" (63,5 mm) tter: 1/4" nincrement: 1/32" able with .250" bushing	e Sp Rou	only. Other res available ec.	IOS         Resistance         500 Ω *         1 kΩ *         2 kΩ         2.5 kΩ         10 kΩ         20 kΩ         25 kΩ         500 kΩ         100 kΩ         200 kΩ *         250 kΩ *         500 kΩ *         250 kΩ *         500 kΩ *         100 kΩ         200 kΩ *         250 kΩ *         500 kΩ *         1 MΩ *         le with linear tap         sistance values         on request	Code A B 	Spec. ±10% ±20% Code 1 2 3	Code 1 4 5 Spec. Linear 10% AUD 10% CCW AU appers are available	Spec. Left side lug Right side lug No lug
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# Series 287 24mm Rotary Potentiometer

## **Electrical Specifications**

Parameter	Conditions & Remarks	Min	Max	Unit
Resistance Range	Linear	500	1Meg	Ω
	Audio	2000	100K	Ω
Dielectric Strength	1 minute		750	VAC
Power Rating	@ 70°C		2.0	watt
Operating Voltage			500	VDC
Insulation Resistance	250 VDC	100		MΩ
Resistance Tolerance	Standard: ±20%			
Resistance Tolerance	Special: ±10%		750 2.0	
Independent Linearity	± 5%			
Effective Electrical Angle	274°			

## Mechanical and Environmental

Parameter	Conditions & Remarks	Min	Max	Unit	
Operating Temperature Range		-40	+120	°C	
Rotational Life	Element Wear	100,000		cycles	
Mechanical Angle			312	٥	
Stop Strength	9 kg-cm (7.8 in-lb)				
Rotational Torque					
Running	400 to 800 gf-cm (5.5 to 11.1 oz-in)				
Starting	1800 gf-cm (25 oz-in) max.				
Push-Pull Strength of Shaft	13.6 kg for 10 seconds				
Ingression Protection	IP50, optional IP67				
Mounting Torque	28.8 kg-cm (25 in-lb) max.				
Weight	22g typical (weights vary based on shaft and bushing sizes)				
Soldering Condition	Maximum temperature of 260°C for 5 seconds				
Marking	CTS logo, part number and date code				
Packaging	Standard cardboard box 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.

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

## **Electrical and Mechanical Specifications**

## Shaft Diameter and Trim Options



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## **Electrical and Mechanical Specifications**

Series 287 Metal Shaft, Bushing Mount, Printed Circuit "X" Type Terminals



Series 287 Metal Shaft, Bushing Mount, Wire Lead "C" Type Terminals



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## **Electrical and Mechanical Specifications**

Series 287 Metal Shaft, Bushing Mount, Solder Lug "T" Type Terminals



Series 287 Metal Shaft, Split Lock Bushing Mount, Solder Lug "T" Type Terminals



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