

Series 284

16mm Precision Rotary Potentiometer

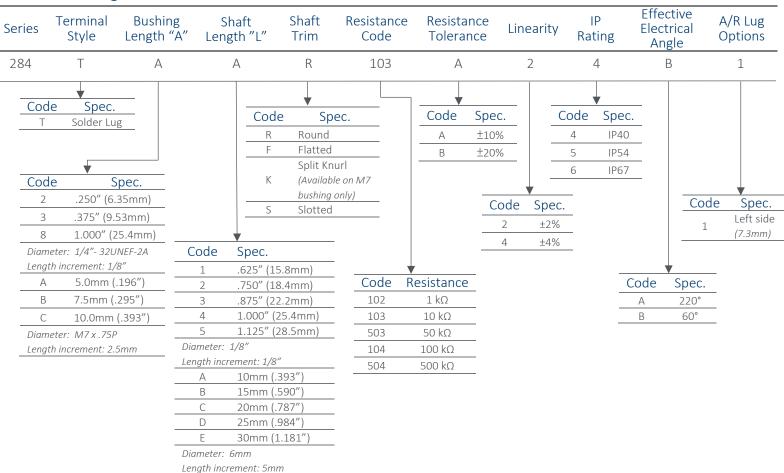
- Conductive Plastic Element
- 16mm x 6mm Compact Size
- Up to 3 Million Life Cycles
- 2% Precision Linearity Option
- Ingression Protection Rating Options
- Wide Operating Temperature Range
- Solder Lug Terminal
- Variety of Shaft and Bushing Lengths



Description

Series 284 Rotary Potentiometer provides the user with a robust, long life, highly reliable product in a sealed housing which complies ingress protection rating of up to IP67. Options include various shaft and bushing lengths, shaft styles, resistance values and tolerances, and rotational angle options to meet application requirements.

Ordering Information



Electrical Specifications

| Parameter | Conditions & Remarks | Min | Max | Unit |
|----------------------------|--------------------------|-----|------|------|
| Resistance Range | Linear | 1k | 500k | Ω |
| Resistance Tolerance | Standard | -20 | +20 | % |
| | Special | -10 | +10 | % |
| Dielectric Strength | 1 minute | | 500 | VDC |
| Power Rating | @ 55°C | | 0.25 | watt |
| Operating Voltage | | | 350 | VDC |
| Insulation Resistance | 100 VDC | 100 | | ΜΩ |
| Linearity | | -2 | +2 | % |
| Effective Electrical Angle | See ordering information | | | |

Mechanical and Environmental

| Parameter | Conditions & Remarks | Min | Max | Unit | |
|------------------------------|---|-----------|------|--------|--|
| Operating Temperature Range | 9 | -40 | +125 | °C | |
| Storage Temperature | | -55 | +150 | °C | |
| Rotational Torque | IP40 | 3 | 30 | gf-cm | |
| | IP54 & IP67 | 20 | 120 | gf-cm | |
| Rotational Life | 220° EEA | 2,000,000 | | cycles | |
| | | 3,000,000 | | cycles | |
| Mechanical Angle | | | 250 | 0 | |
| Stop Strength | | 9 | | kgf-cm | |
| Vibration | 15G, 10 to 2000 Hz | | | | |
| Push-Pull Strength of Shaft: | 13.6 kg for 10 seconds | | | | |
| Ingress Protection Rating | IP40, IP54 & IP67 | | | | |
| Soldering Condition: | Maximum temperature of 260° for 5 seconds | | | | |
| Packaging: | Standard tray packaging | | | | |

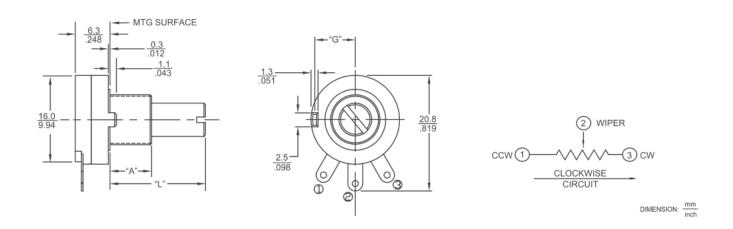
All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications.

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.

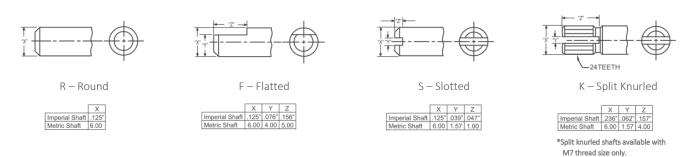
Custom and value-added options available on request. Please contact your sales representative for additional information.

Electrical and Mechanical and Specifications

Series 284 Metal Shaft, Bushing Mount, Solder Lug Terminal



Shaft Trim



Mouser Electronics

Authorized Distributor

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

CTS:

<u>284TBBK103A26A1</u> <u>284TBBK104A26A1</u> <u>284TBBK254A26A1</u> <u>284TBBK502A26A1</u> <u>284TBBK503A26A1</u> <u>284TBBK504A26A1</u> <u>284TBCF103A26A1</u> <u>284TBCF104A26A1</u> <u>284TBCF254A26A1</u> <u>284TBCF502A26A1</u> <u>284TBCF503A26A1</u> <u>284TBCF504A26A1</u> <u>284TBBK103A26B1</u>