BOURNS®

PER23 - 23 mm Low Profile Incremental Ring Encoder

Features

■ Low profile incremental encoder
■ High-class rotational feel
■ Haptic detent feedback
■ RoHS compliant*

Additional Information

Click these links for more information:

PRODUCT   TECHNICAL   INVENTORY   SAMPLES   CONTACT
          LIBRARY

Electrical Characteristics

Output.........................2-bit quadrature code
Contact Rating................. 10 mA @ 5 V DC
Insulation Resistance
......................100 megohms @ 100 V DC
Dielectric Withstanding Voltage
   Sea Level..................................100 V AC
Electrical Travel ....Continuous
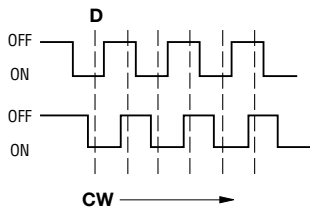Contact Bounce (15 RPM)....... 3 ms max.**

Environmental Characteristics

Operating Temperature..... -10 °C to +60 °C
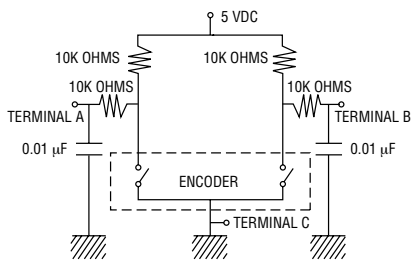Storage Temperature........ -40 °C to +85 °C

Mechanical Characteristics

RPM (Operating) .... 60 max.
Mechanical Angle .... 360 ° continuous
Detent Torque .... 40 to 100 gf-cm
Rotational Life........................ 50,000 cycles
Soldering Condition
   Wave Soldering...... 260 °C for 3 seconds
   Manual Soldering ... 300 °C for 3 seconds

Quadrature Output Table
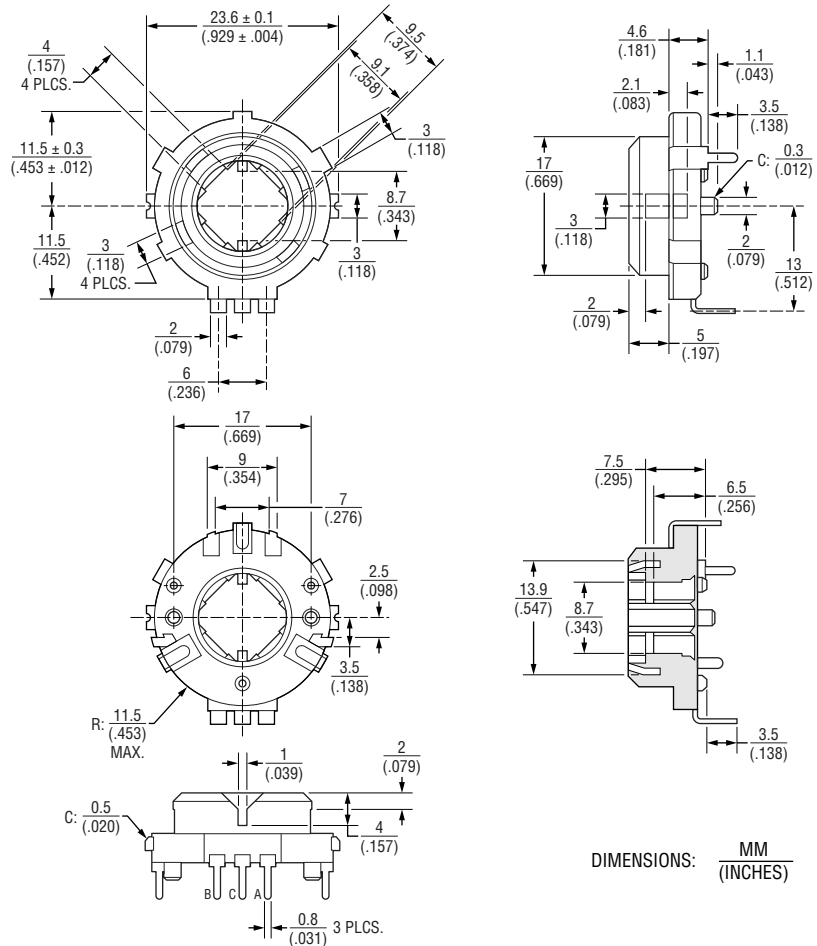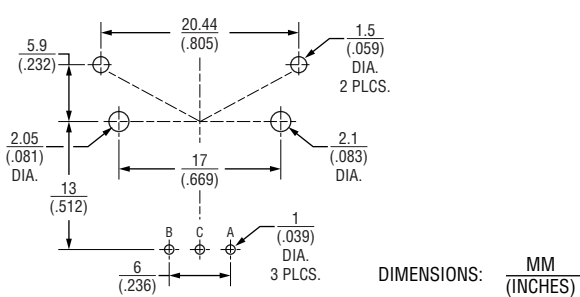

Suggested Filter Circuit

Product Dimensions

DIMENSIONS: MM / (INCHES)

Recommended PCB Layout

DIMENSIONS: MM / (INCHES)

*   RoHS Directive 2015/863, Mar 31, 2015 and Annex.
**   Devices are tested using standard noise reduction filters.
     For optimum performance, designers should use noise reduction filters in their circuits.
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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How To Order

PER23 1 - P1 9 - N 0010

Model

Number of Units
  1 = Single

Orientation
  P = PC Pins Down Facing

Detent Option
  1 = 20 Detents (10 Pulses)

Ring Height
  9 = 9.6 mm

Switch Configuration
  N = No Switch

Resolution
  0010 = 10 Pulses per 360 ° Rotation

BOURNS®

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