

#### **Features**

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

# PER23 - 23 mm Low Profile Incremental Ring Encoder

#### **Additional Information**

Click these links for more information:













**INVENTORY** 

SAMPLES CONTACT

#### **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**

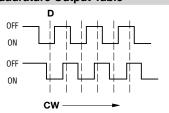
Operating Temperature..... -10 °C to +60 °C Storage Temperature ...... -40 °C to +85 °C

#### **Mechanical Characteristics**

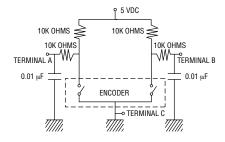
RPM (Operating) ......60 max. Mechanical Angle ......360 ° continuous Detent Torque ......40 to 100 gf-cm Rotational Life......50,000 cycles Soldering Condition

Wave Soldering..... 260 °C for 3 seconds Manual Soldering ... 300 °C for 3 seconds

#### **Quadrature Output Table**



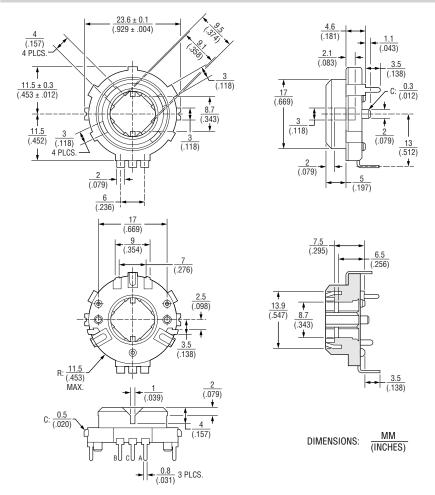
### **Suggested Filter Circuit**



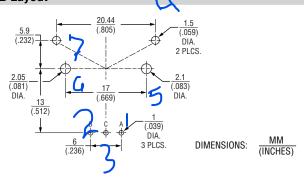
#### CAUTION

Do not store product in high temperature and humidity, direct sunlight and/or places where corrosive gases may be generated. Please use product within 6 months from the date of delivery and promptly after unpacking.

#### **Product Dimensions**



## **Recommended PCB Layout**





WARNING **Cancer and Reproductive Harm** www.P65Warnings.ca.gov

- 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

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# PER23 - 23 mm Low Profile Incremental Ring Encoder

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 ————————————————————————————————————	
Resolution — 0010 = 10 Pulses per 360 ° Rotation	

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