

Features

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

PER21 - 21 mm Low Profile Incremental Ring Encoder

Additional Information

Click these links for more information:











DUCT TECHNICAL INVENTORY SAMPLES

Electrical Characteristics

Output......2-bit quadrature code Contact Rating......10 mA @ 5 V DC Insulation Resistance

......100 megohms @ 250 V DC Dielectric Withstanding Voltage

Sea Level......300 V AC
Electrical TravelContinuous
Contact Bounce (15 RPM).....3 ms max.**

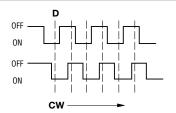
Environmental Characteristics

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

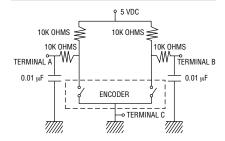
Mechanical Characteristics

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

Quadrature Output Table



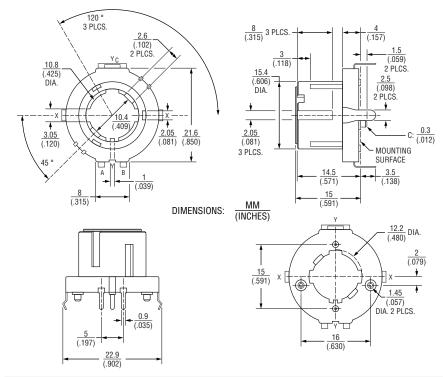
Suggested Filter Circuit



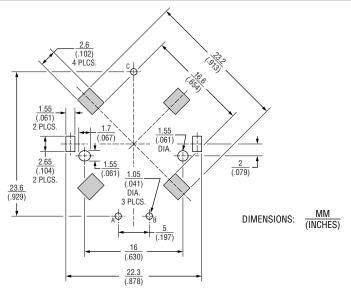
CAUTION

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.
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How To Order	
	PER21 1 - P1 15 - N 0009
Model — Number of Units — 1 = Single Orientation —	
P = PC Pins Down Facing Detent Option — 1 = 18 Detents (9 Pulses)	
Ring Height 15 = 15 mm	
Switch Configuration ————————————————————————————————————	
Resolution	

0009 = 9 Pulses per 360 ° Rotation

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