



Features

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

PER60 - 60 mm Low Profile Incremental Ring Encoder

Additional Information

Click these links for more information:



Electrical Characteristics

Output..... 2-bit quadrature code
 Contact Rating..... 10 mA @ 5 V DC
 Insulation Resistance
 100 MΩ @ 100 V DC
 Dielectric Withstanding Voltage
 Sea Level..... 100 V AC
 Electrical Travel..... Continuous
 Contact Bounce (60 RPM)..... 5 ms max.**

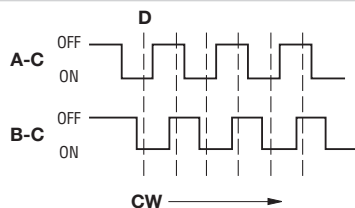
Environmental Characteristics

Operating Temperature..... -10 °C to +60 °C
 Storage Temperature..... -40 °C to +85 °C
 Soldering Condition
 Wave Soldering 260 °C for 5 s
 Manual Soldering..... 300 °C for 3 s

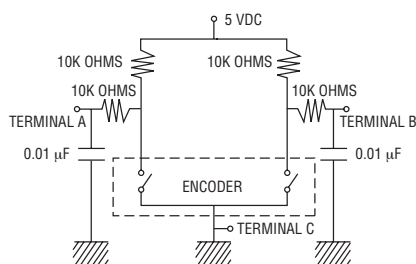
Mechanical Characteristics

RPM (operating) 60 max.
 Mechanical Angle 360° continuous
 Detent Torque 100 to 300 gf-cm
 Rotational Life..... 40,000 cycles

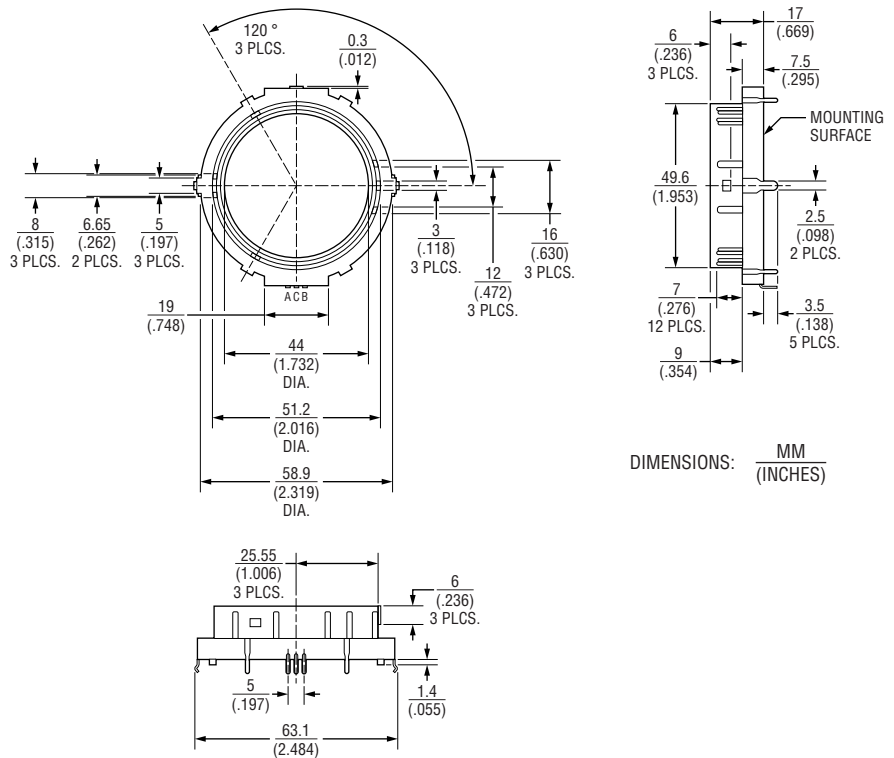
Quadrature Output Table



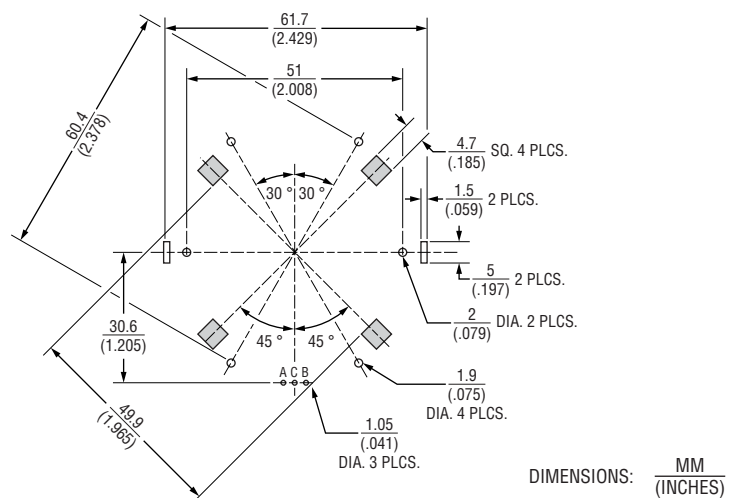
Suggested Filter Circuit



Product Dimensions



Recommended PCB Layout



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.



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See 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.

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PER60 - 60 mm Low Profile Incremental Ring Encoder

BOURNS®

How To Order

PER60 1 - P1 17 - N 0015

Model	_____	_____	_____	_____	_____
Number of Units	_____	_____	_____	_____	_____
1 = Single					
Orientation	_____	_____	_____	_____	_____
P = PC Pins Down Facing					
Detent Option	_____	_____	_____	_____	_____
1 = 30 Detents (15 Pulses)					
Ring Height	_____	_____	_____	_____	_____
17 = 17 mm					
Switch Configuration	_____	_____	_____	_____	_____
N = No Switch					
Resolution	_____	_____	_____	_____	_____
0015 = 15 Pulses per 360 ° Rotation					

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REV. 05/26

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