



Features

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

EC35D - 35 mm Low Profile Incremental Ring Encoder

Electrical Characteristics

Output..... 2-bit quadrature code

Contact Rating..... 1 mA @ 5 V DC

Insulation Resistance

..... 100 MΩ @ 250 V DC

Dielectric Withstanding Voltage

Sea Level..... 300 V AC

Electrical Travel..... Continuous

Contact Bounce (15 RPM)..... 2 ms max.**

Environmental Characteristics

Operating Temperature..... -30 °C to +80 °C

Storage Temperature..... -40 °C to +85 °C

IP Rating..... IP 40

Soldering Condition

Wave Soldering 260 °C for 5 s

Manual Soldering..... 300 °C for 3 s

Mechanical Characteristics

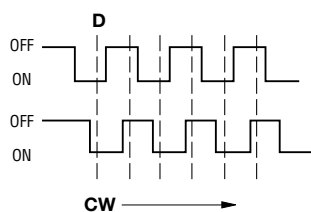
RPM (operating) 60 max.

Mechanical Angle 360 ° continuous

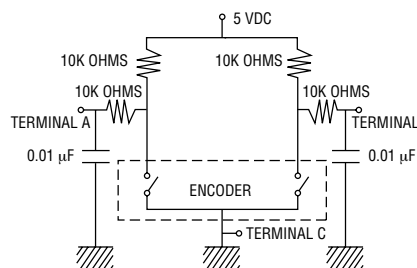
Detent Torque..... 100 to 400 gf-cm

Rotational Life..... 3 000 cycles

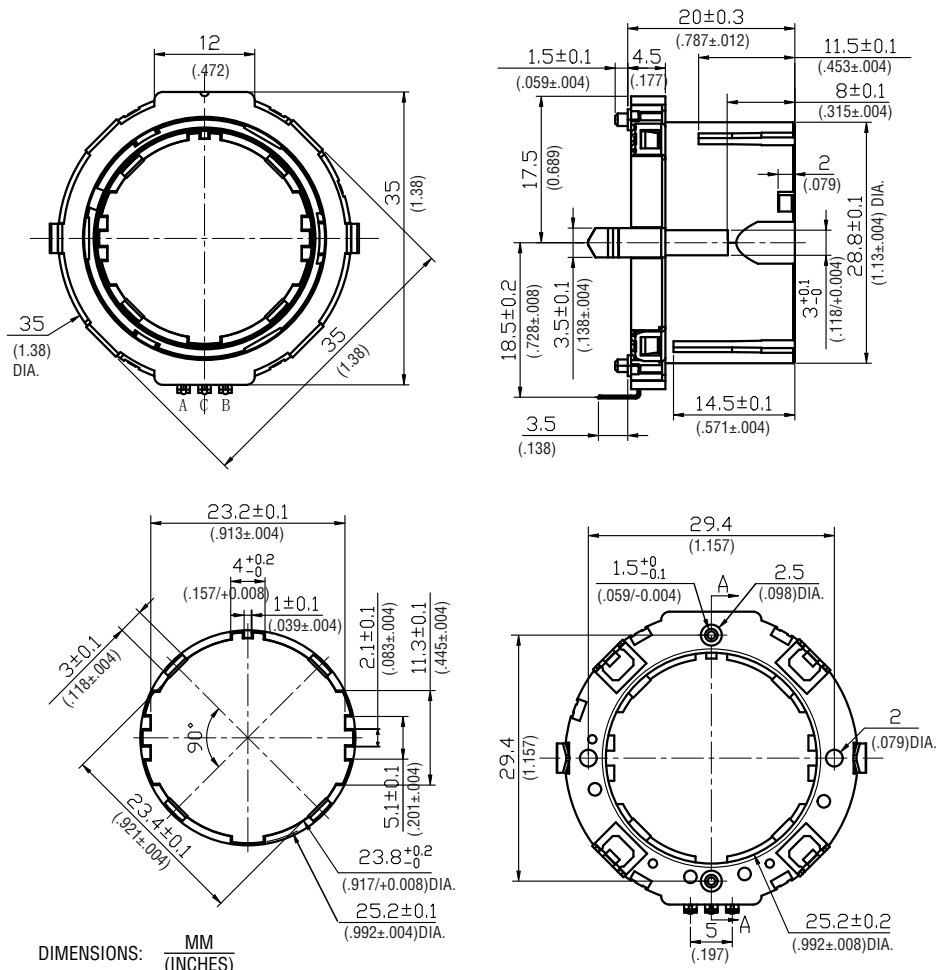
Quadrature Output Table



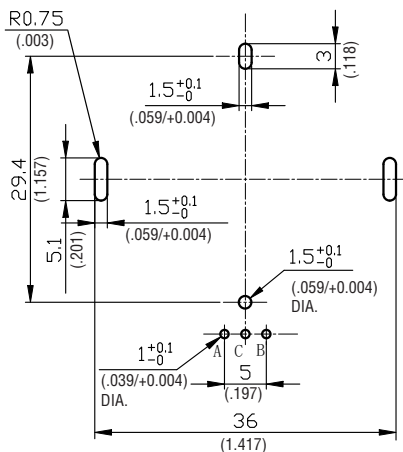
Suggested Filter Circuit



Product Dimensions



Recommended PCB Layout



How To Order

EC35D00V01-0003 XA015P2H200

Model

Resolution

15P = 15 Pulses 30 Detents

General Tolerance

Dimension:

X < 10 ± 0.3mm

10 ≤ X < 30 ± 0.5mm

30 ≤ X ≤ 100 ± 1mm

Angle: ± 5°