



Features

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

EC25 - 23 mm Low Profile Incremental Ring Encoder

Electrical Characteristics

Output.....2-bit quadrature code

Contact Rating..... 10 mA @ 5 V DC

Insulation Resistance

.....100 MΩ @ 250 V DC

Dielectric Withstanding Voltage

Sea Level300 V AC

Electrical TravelContinuous

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

Environmental Characteristics

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

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

Mechanical Characteristics

RPM (Operating) 60 max.

Mechanical Angle360 ° continuous

Detent Torque.....30 to 150 gf-cm

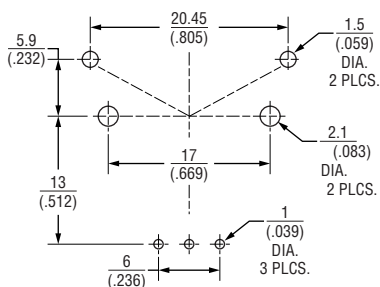
Rotational Life.....30,000 cycles

Soldering Condition

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

Manual Soldering... 300 °C for 3 seconds

Recommended PCB Layout



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

General Tolerance

Dimension:

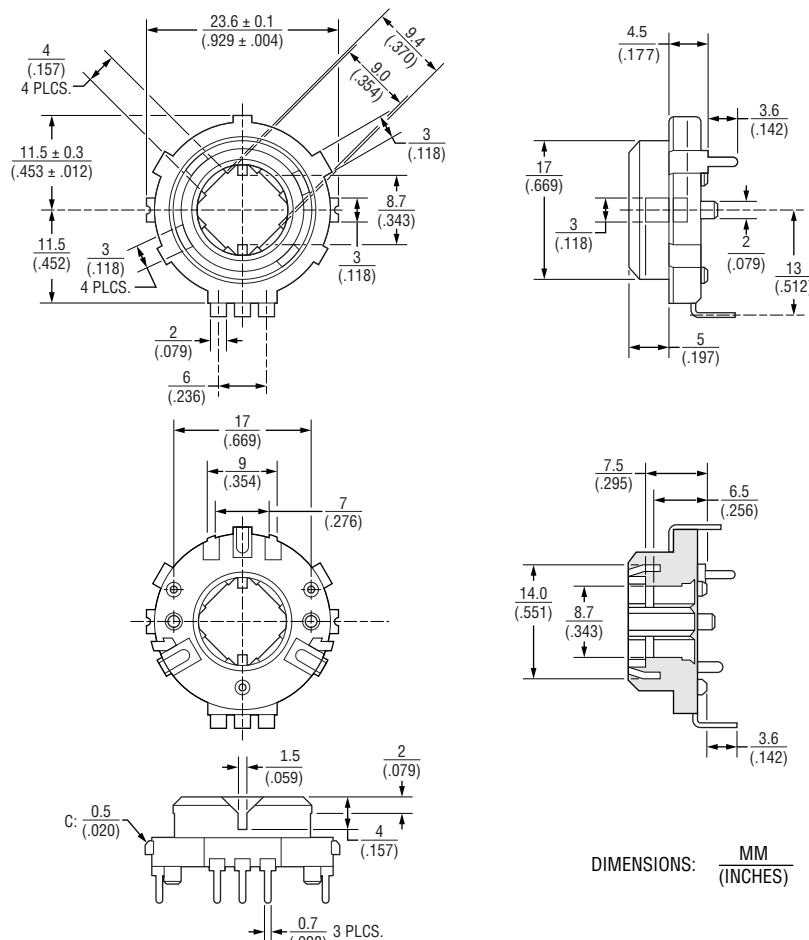
$X < 10 \pm 0.3\text{mm}$

$10 \leq X < 30 \pm 0.5\text{mm}$

$30 \leq X \leq 100 \pm 1\text{mm}$

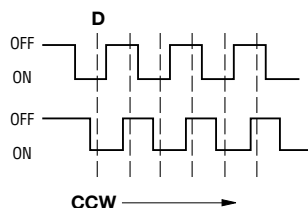
Angle: $\pm 5^\circ$

Product Dimensions

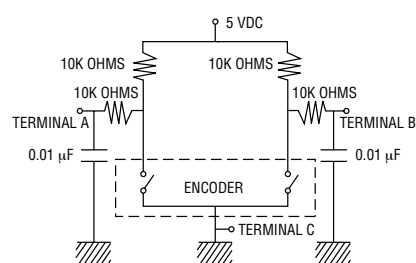


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Quadrature Output Table



Suggested Filter Circuit



How To Order

EC25A00V01-0001

XA010A20H095

Model

Resolution

10A = 10 Pulses 20 Detents

20A = 20 Pulses 20 Detents