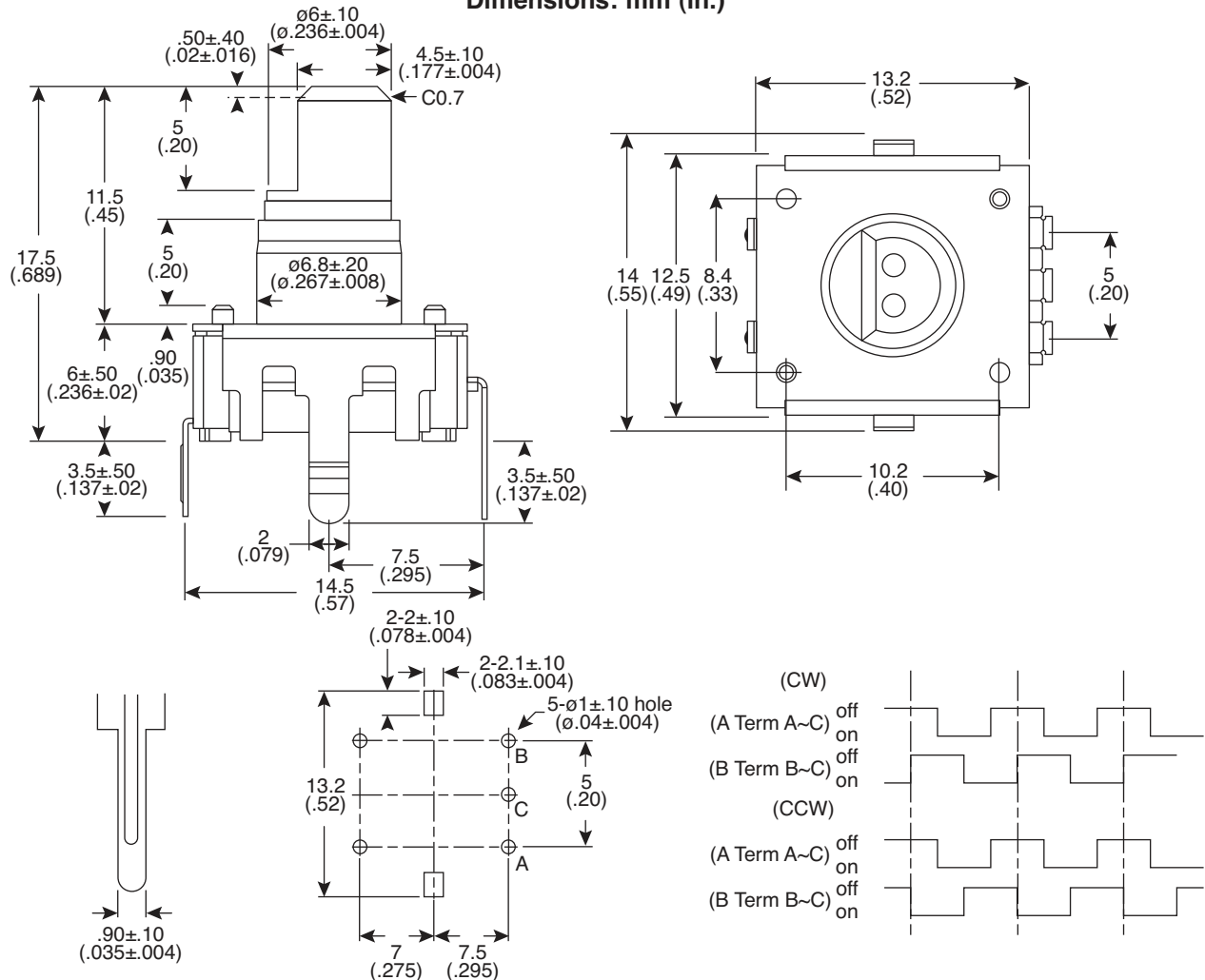




## Rotary Encoder 318-ENC130175F-12PS

### Dimensions: mm (in.)



#### Mechanical Specifications:

- Operating Temp:  $-10^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
- Storage Temp:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$
- Rotational Torque: 50gf.cm max.
- No. and Pos. of detents: 12 detents (Step angle  $30^{\circ} \pm 3^{\circ}$ )
- Terminal Strength: A static load for 300gf.cm shall be applied to the tip of the terminals for 10 sec. in any direction
- Shaft push-pull strength: 5.1kgf
- Rotational life: 30,000 cycles

#### Note:

- RoHS Compliant

#### Electrical Specifications:

- Rating: 1mA/10VDC
- Insulation Resistance: 50VDC 10M $\Omega$  Min.
- Dielectric Strength: 50VAC for 1 min.
- Resolution: 12 pulses/360 $^{\circ}$  for each phase

#### Soldering Specifications:

- Soldering: To be performed in 5 seconds within  $260 \pm 5^{\circ}\text{C}$
- Manual Soldering: To be performed in 3 seconds within  $350 \pm 5^{\circ}\text{C}$
- Preheating: The entire flow duration should not exceed 2 min., and soldering surface temperature (undersurface of PCB) shall be settled within  $100^{\circ}\text{C}$

#### Push-on Switch Specifications:

- Type: Single Pole Single Throw (Push on)
- Rating: 10mA/5VDC
- Switch Travel (mm):  $0.5 \pm 0.4$
- Operating Force: 200~460gf
- Operating Life: 20,000 times