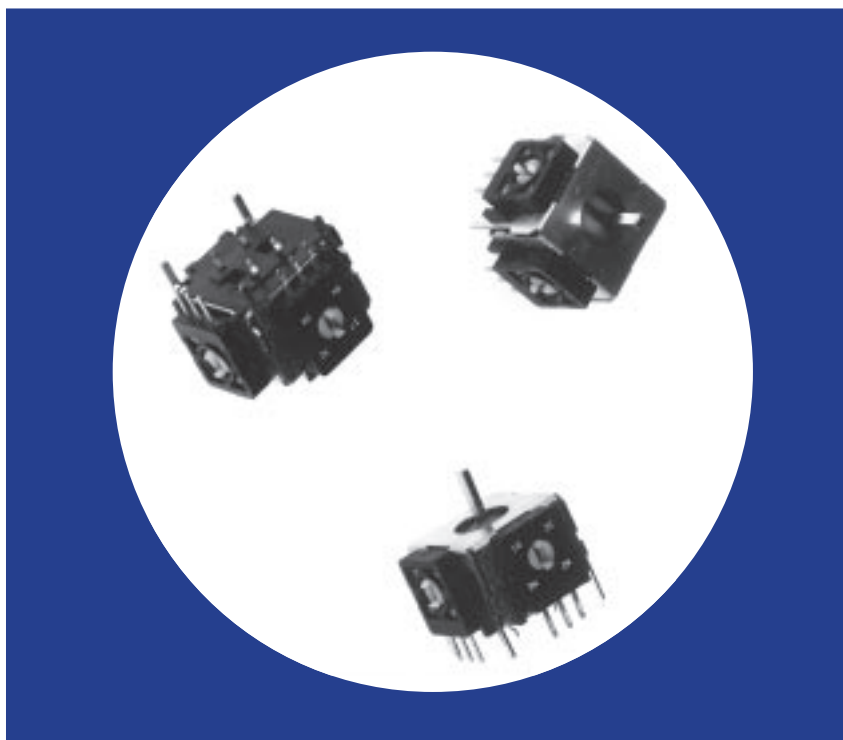


### Two Axis, Ministick Controller With Optional Momentary Switch

#### Features

- Compact Size (20x21x13mm)
- Long Life 1 Million Cycles
- Optional momentary switch is operational at all rotations
- Sturdy metal case with convenient mounting tabs
- RoHS compliant



Pat. No: US 6,353,430 , Taiwan: 128688. Pat. Pending in Japan & China

### Electrical and Mechanical Specifications

#### Potentiometer 1 & 2

##### Resistance Range

10 K ohms through 200 K ohms

##### Resistance Tolerance

Standard:  $\pm 30\%$

Special:  $\pm 10\%$  and  $\pm 20\%$  available

##### Insulation Resistance

100 Megaohms min @ 250 VDC

##### Rotational Torque of Stick

200  $\pm$  80 gf.cm at 10° deflection

##### Power Rating

0.0125 watt @ 50°C, Derated to no load at 85°C

##### Operating Voltage

50 VAC or 5 VDC maximum

##### Angle of Rotation

60° maximum

##### Life

Standard: 1,000,000 cycles

Special: Consult CTS

##### RoHS Compliance

Compliant with European Union RoHS Directive

#### Available Switch

##### Type

Momentary

##### Contact Resistance

100 milliohms max

##### Maximum Contact Resistance

200 milliohms max after 500,000 cycles  
switching 5mA @ 5VDC

##### Dielectric Strength

250 VAC 50/60 Hz for 1 minute

##### Insulation Resistance

100 Megaohms min @ 100 VDC

##### Operational Force

800 $\pm$ 200 g

##### Power Rating

12 VDC, 50 mA maximum

##### Travel

0.9  $\pm$  0.4mm

##### Switch Life

500,000 cycles

# Electrical and Mechanical Specifications

## Potentiometer 1 & 2

### Operating Temperature

-10°C to +70°C

### Mounting Information

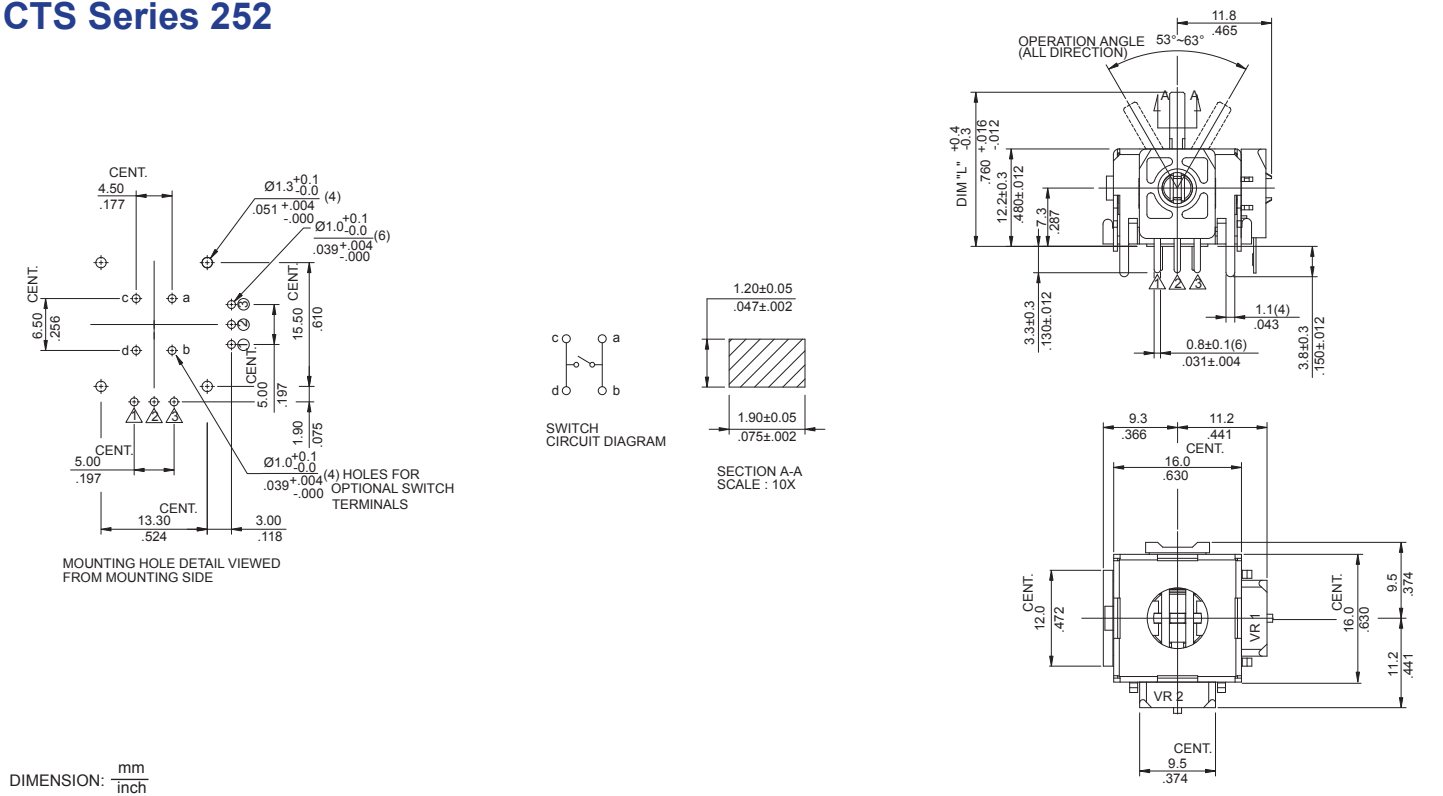
PC Terminals

### Soldering Conditions

Wave - up to 5 seconds at 260°C

No Solder or flux on component side of board

## CTS Series 252



## Ordering Information

