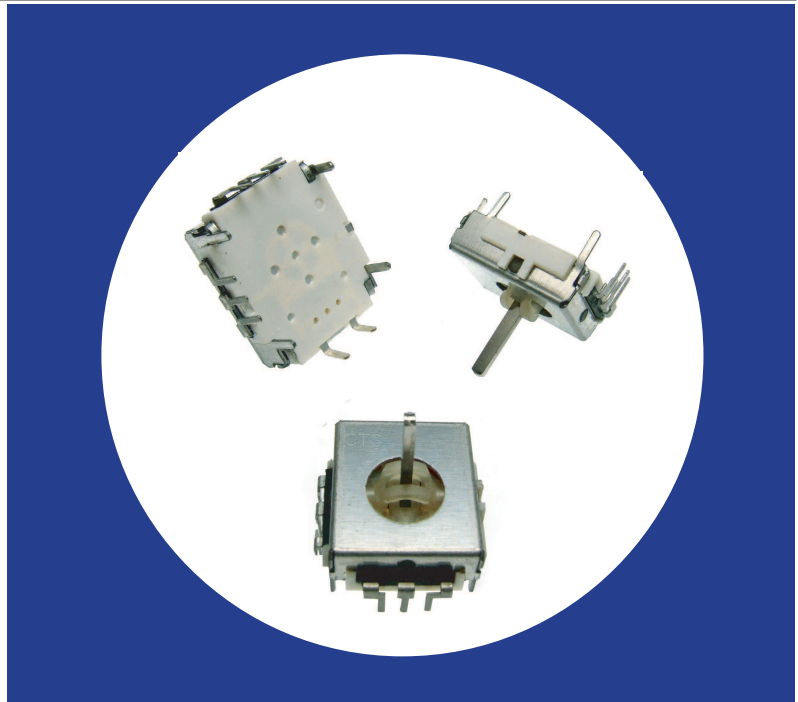


### Two Axis, Ministick Controller With Optional Momentary Switch

#### Features

- Compact Size: 20x18x6mm (.79"x.71"x.24")
- 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 6,654,005 . Taiwan: 176676. Pat. Pending in Japan & China

### Electrical and Mechanical Specifications

#### Potentiometer 1 & 2

##### Resistance Range

10 K ohms through 200 K ohms

##### Resistance Tolerance

Standard: ±30%

Special: ±10% and ± 20% available

##### Insulation Resistance

100 Megaohms @ 250 VDC

##### Operation Torque

180 ±50 gf-cm (2.5 ±0.7 in-oz)

##### Power Rating

0.0125 watt @ 50°C, derated to load @ 85°C

##### Maximum Operating Voltage

50 VAC or 5 VDC maximum

##### Angle of Rotation

54° 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

1,200±260 g

##### Power Rating

5 VDC, 5 mA maximum

##### Travel

0.5 <sup>+0.5</sup><sub>-0.4</sub> mm

##### Switch Life

500,000 cycles

# Electrical and Mechanical Specifications

## Potentiometer 1 & 2

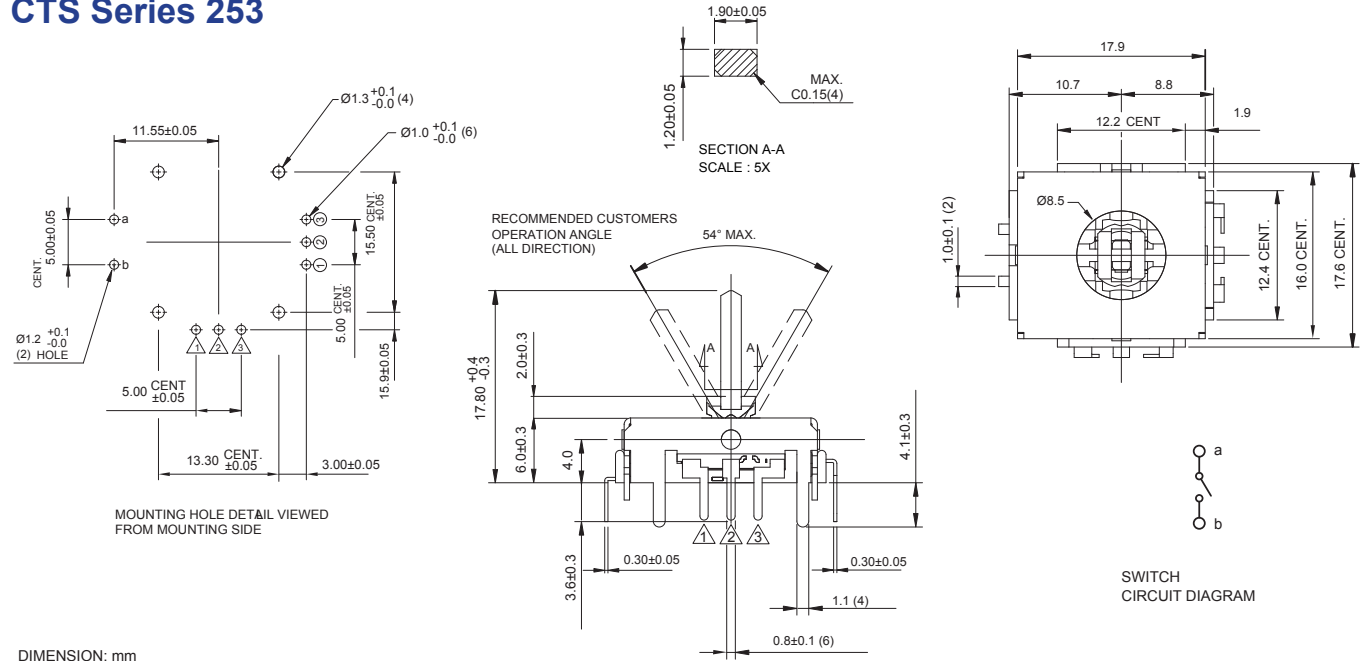
**Operating Temperature**  
 Operating: -10°C to +70°C

**Mounting Information**  
 PC Terminals

**Soldering Conditions**  
 Wave - up to 5 seconds at 260°C  
 No Solder or flux on component side of board

**Caution**  
 Please use extra mechanism to restrict rotational angle at less than 54 degree or there will be bumpy or rugged rotational feeling

## CTS Series 253



DIMENSION: mm

## Ordering Information

