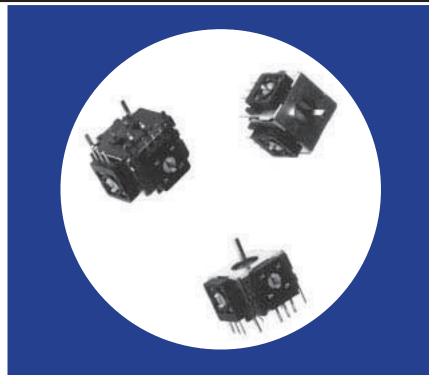


Series 252 Data Sheet Mini-joystick

Two Axis, Mini-joystick With 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.

Electrical and Mechanical Specifications

Potentiometer 1 & 2

Resistance Range

10 K ohms through 200 K ohms

Resistance Tolerance

Standard: ±30%

Special: ±10%, ± 20% available

Dielectric Strength

250 VAC 50/60 Hz for 1 minute

Insulation Resistance

100 Megohms @ 250 VDC for 1 minute

Operational Torque

200 ± 80 gf.cm

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

1,000,000 cycles

Available Switch

Type

Momentary

Contact Resistance

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

Dielectric Strength

250 VAC 50/60 Hz for 1 minute

Insulation Resistance

100 Megohms minmum @ 100 VDC

Operational Force

 $800 \pm 200 \text{ gf}$

Power Rating

5 VDC, 50 mA maximum

Travel

 0.9 ± 0.4 mm

Switch Life

500,000 cycles

Electrical and Mechanical Specifications

Potentiometer 1 & 2

Operating Temperature

-10°C to +70°C

Soldering Conditions

260 ± 5°C for 5 seconds

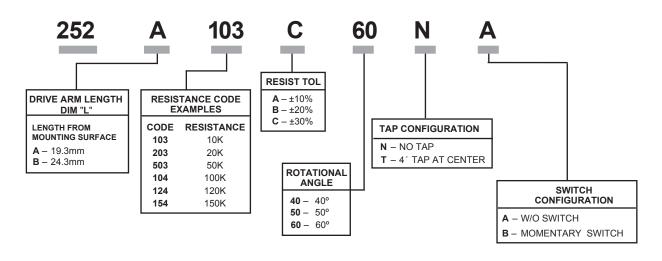
Mounting Information

PC Terminals

CTS Series 252 OPERATION ANGLE 53°~63° (ALL DIRECTION) DIM "L" CENT. $0.3^{+0.1}_{-0.0}$ (4) 4.50 Ø1.0^{+0.1}_{-0.0}(6) 3.3±0.3 0.8±0.1(6) 6 SWITCH CIRCUIT DIAGRAM CENT. 5.00 16.0 CENT (4) HOLES FOR OPTIONAL SWITCH TERMINALS MOUNTING HOLE DETAIL VIEWED FROM MOUNTING SIDE

DIMENSION: mm inch

Ordering Information



VR 2

9.5 CENT.