

# Series 442 Technical Data

# Linear Motion 1/4 Watt Composition Slide Controls

#### **Features**

- 11/4" (31.7mm) slider travel
- 1/4 watt power rating
- · Choice of resistance tapers
- Economical
- · Wide resistance range
- · Choice of mounting styles
- · RoHS compliant



### **Electrical and Mechanical Specifications**

#### **Resistance Range**

200 ohms through 5 megaohms

#### **Resistance Tolerance**

Standard: ±20% Available: ±10%

#### **Power Rating, Watts**

1/4 watt @ 55°C derated to no load @ 85°C, linear taper, control mounted on steel panel 4" x 4" x .050" (101.6mm x 101.6mm x 1.27mm).

#### Voltage Rating

Across end terminals:

Linear curves — 500 VDC
Tapered curves — 350 VDC
(Not to exceed wattage ratings)
Between case and end terminals:
1080 VAC RMS

#### **Resistance Tapers**

Standard: Linear

Special: Available upon request

#### **Operating Temperature**

0°C - +70°C

#### **Slide Travel**

Mechanical —  $1^{1/4}$  inches (31.7mm) Effective —  $1^{1/4}$  inches (31.7mm)

#### **Shaft Information**

See illustrations, page 2.

#### **Operating Force**

Either direction 1 to 9 in-oz. (28 to 256 gf-cm) Measured .250" (6.35mm) from base of slider.

#### Stop Strength

Maximum — 35 in-lbs. (15.9 kg-cm) measured at base of slider.

#### **Terminal Information**

Straight, vertical or snap-in to printed circuit board, wirewrap or solder lug styles.

#### **Mounting Information**

Top, bottom, side or no twist tab mounting refer to illustrations, page 2.

## CTS Series 442 52.10 2.051 MAX. 3.56±0.13 .140±.005 CHECK CTS FOR AVAILABILITY NO MOUNT CONSTRUCTION BOTTOM MOUNTING SURFACE 15.34 604 13.41±0.25 SUGGESTED PANEL PIERCING VIEWED FROM TOP SIDE FOR TWIST TABS SUGGESTED PANEL PIERCING VIEWED FROM TOP SIDE FOR TWIST TABS AND ACTUATOR 40.28 1.586 Ø2.08 (3) Ø2.08 (3) € OF ACTUATOR **(** 8.48 .334 SUGGESTED PANEL PIERCING VIEWED FROM CONTROL SIDE FOR STRAIGHT P.C. & WIREWE SUGGESTED PANEL PIERCING VIEWED FROM CENTERLINE OF CONTROL FOR VERTICAL P.C. TERMINALS EWRAP TERMINALS

## **Ordering Information**

