



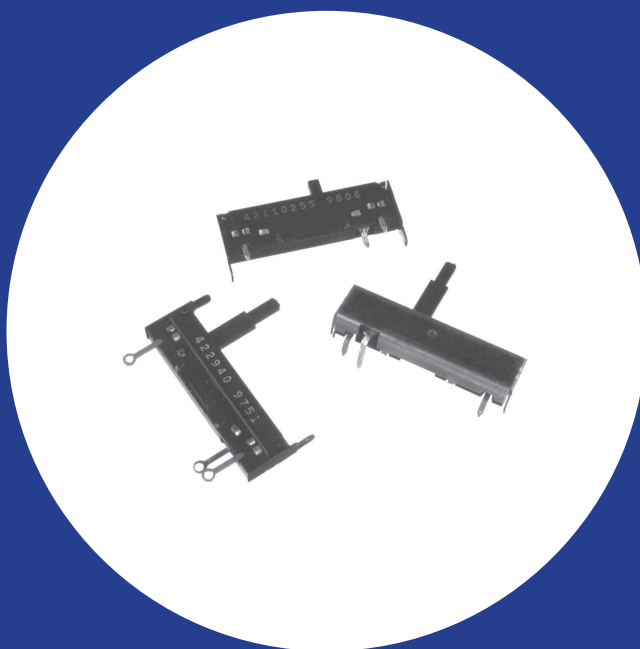
Series 442 Data Sheet

Slide Potentiometer

Commercial Linear Motion Carbon Composition Slide Potentiometer

Features

- 1 $\frac{1}{4}$ " (31.7mm) travel
- $\frac{1}{4}$ 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 Megohms, linear
Consult CTS for audio taper

Resistance Tolerance

$\pm 30\%$, $\pm 20\%$, $\pm 10\%$

Power Rating, Watts

$\frac{1}{4}$ 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 to +70°C

Actuator Travel

1 $\frac{1}{4}$ inches (31.7mm)

Potentiometer Life

10,000 cycles

Actuator Information

See illustrations, page 2.

Operating Force

Either direction 1 to 9 oz. (28 to 256 g)
Measured .250" (6.35mm) from base of actuator

Stop Strength

Maximum — 35 lbs. (15.9 kg) measured
at base of actuator

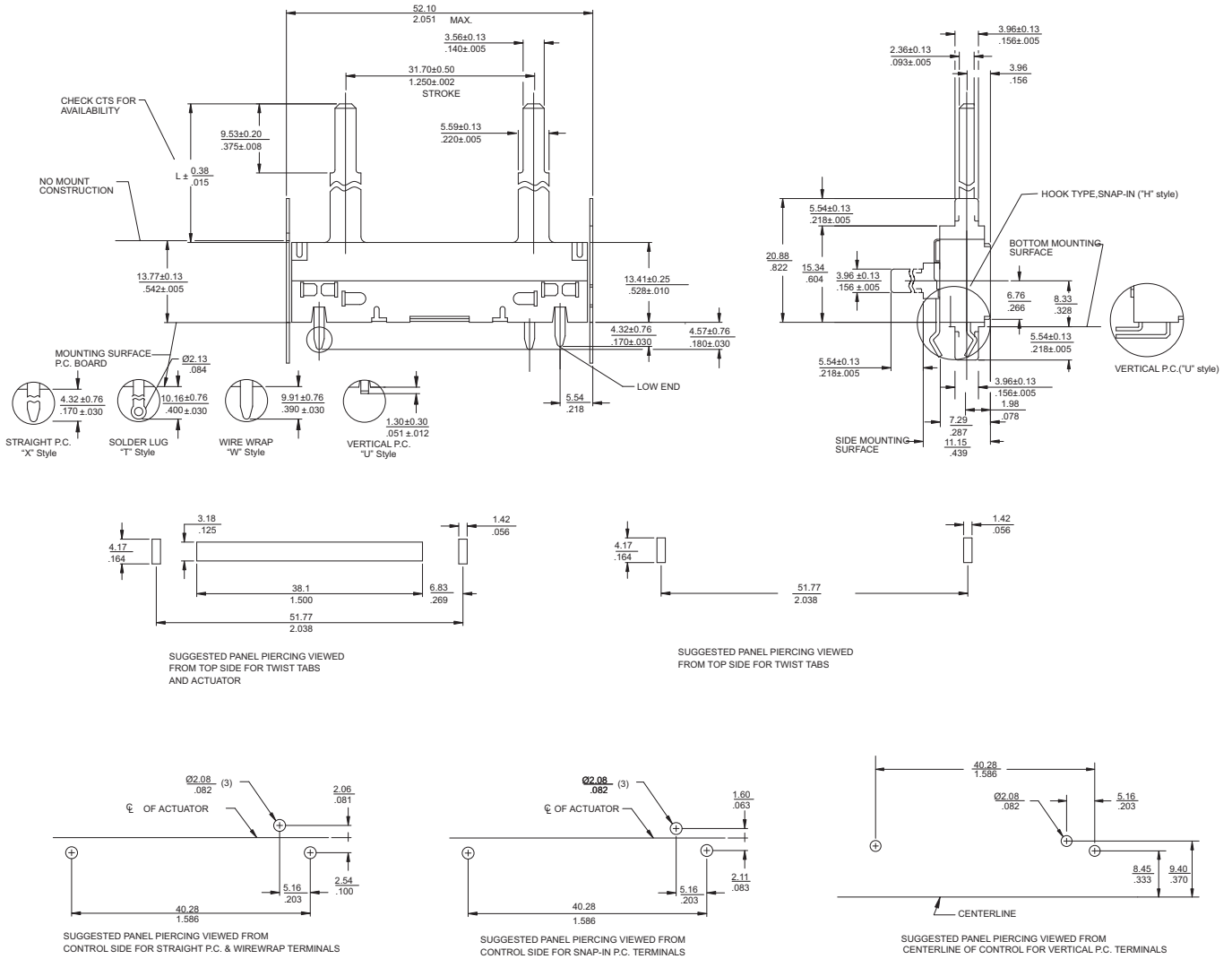
Terminal Information

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

Mounting Information

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

CTS Series 442



DIMENSION: $\frac{\text{mm}}{\text{INCH}}$

Ordering Information

442

T

A

2

T

103

B

D

N

MOUNTING STYLE

T – TOP MOUNT
B – BOTTOM MOUNT
S – SIDE MOUNT
N – NO MOUNTING TABS

TRAVEL

A – 1.250" (31.7mm)

ACTUATOR LENGTH

2 – .250" (6.35mm)
3 – .375" (9.53mm)
4 – .500" (12.7mm)
6 – .750" (19.1mm)
8 – 1.000" (25.4mm)
R – .218" (5.54mm)
S – .313" (7.98mm)
T – .438" (11.13mm)

TERMINAL STYLE

T – SOLDER LUG
X – STRAIGHT P.C.
W – WIREWRAP
H – HOOK TYPE, SNAP-IN
U – VERTICAL P.C.

RESISTANCE CODE EXAMPLES

CODE	RESISTANCE
501	500 OHMS
102	1K
252	2.5K
502	5K
103	10K
253	25K
104	100K
105	1MEG

RESIST TOL

A – $\pm 10\%$
B – $\pm 20\%$
C – $\pm 30\%$

SPECIALS

N – NO SPECIALS
C – CENTER DETENT

TAPER

D – LINEAR
A – CW 10% AUD
B – CCW 10% AUD

Note:

Consult CTS for other common features not listed.