

Linear Motion 1/4 Watt Composition Slide Controls

Features

- 1 1/4" (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: $\pm 20\%$

Available: $\pm 10\%$

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.

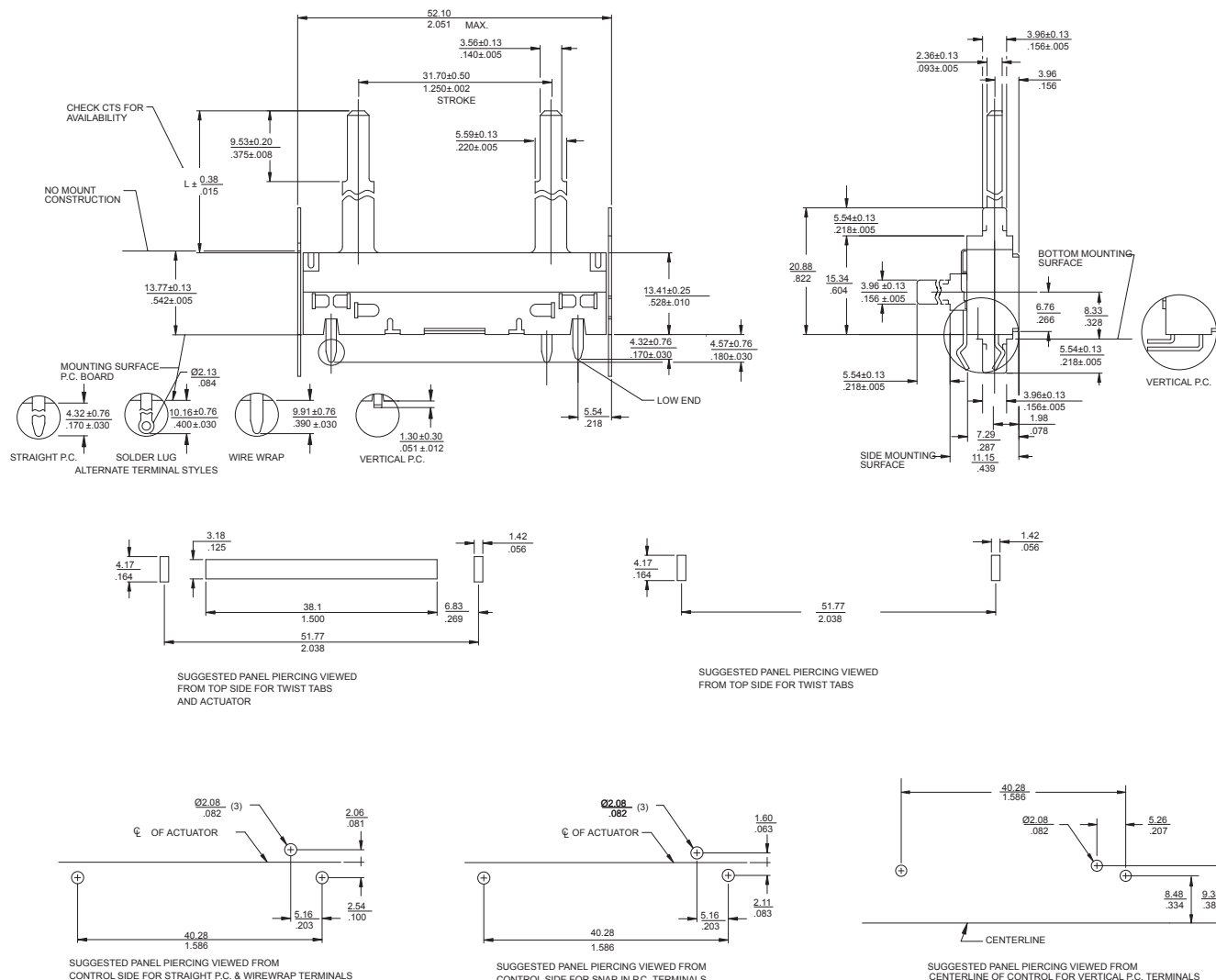
Terminal Information

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



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

Ordering Information

442	T	A	2	T	103	B	D	N																	
<div>MOUNTING STYLE</div> <div>T – TOP MOUNT B – BOTTOM MOUNT S – SIDE MOUNT N – NO MOUNTING TABS</div>		<div>TRAVEL</div> <div>A – 1.250" (31.7mm)</div>		<div>TERMINAL STYLE</div> <div>T – SOLDER LUG X – STRAIGHT P.C. W – WIREWRAP H – HOOK TYPE, SNAP-IN U – VERTICAL P.C.</div>		<div>RESIST TOL</div> <div>A – ±10% B – ±20% C – ±30%</div>		<div>SPECIALS</div> <div>N – NO SPECIALS C – CENTER DETENT</div>																	
		<div>ACTUATOR LENGTH</div> <div>2 – .250" (6.35mm) 3 – .375" (9.53mm) 4 – .500" (12.7mm) 5 – .625" (15.9mm) 6 – .750" (19.1mm) 7 – .875" (22.2mm) 8 – 1.000" (25.4mm) R – .218" (5.54mm) S – .313" (7.98mm) T – .438" (11.13mm)</div>			<div>RESISTANCE CODE EXAMPLES</div> <table><tr><th>CODE</th><th>RESISTANCE</th></tr><tr><td>501</td><td>500 OHMS</td></tr><tr><td>102</td><td>1K</td></tr><tr><td>252</td><td>2.5K</td></tr><tr><td>502</td><td>5K</td></tr><tr><td>103</td><td>10K</td></tr><tr><td>253</td><td>25K</td></tr><tr><td>104</td><td>100K</td></tr><tr><td>105</td><td>1MEG</td></tr></table>	CODE	RESISTANCE	501	500 OHMS	102	1K	252	2.5K	502	5K	103	10K	253	25K	104	100K	105	1MEG		<div>TAPER</div> <div>D – LINEAR A – CW 10% AUD B – CCW 10% AUD</div>
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