П

Features/Benefits

- Vertical and right angle SMT models
- Vertical and right angle thru-hole models
 Server/storage
- Multiple caps and legends
- Several LED colors and bi-color options
- RoHS compliant /compatible

Typical Applications

- Consumer electronics
- Medical devices
- Test/Measurement/Instrumentation
- Audio/Video
- Computers/Peripherals
- Security









Specification

FUNCTION: N.O. momentary action TERMINALS: SMT & Thru-hole

Mechanical

OPERATING FORCE: 160 ± 50gf for V1; V2; V3; R1; R2 models 220 ± 50 gf for R3N model

OPERATING LIFE: 50,000 cycles (250m Ω max)

RECOMMENDED OPERATING STROKE: 0.25mm ± 0.1mm

Electrical

RATING: 50mA @ 12VDC

CONTACT RESISTANCE: $<100m \Omega$ (initial) DIELECTRIC WITHSTANDING VOLTAGE:

>250VAC (50-60 Hz) between terminals - 1 min.Ω

INSULATION RESISTANCE: >100M Ω

BOUNCE TIME: <10ms

Packaging

Thru-hole: 200 pieces per tray

SMT: tape & reel (see V2, V3 or R3N mounting style drawings)

Environmental

OPERATING TEMPERATURE: -25°C to +70°C STORAGE TEMPERATURE: -25°C to +80°C

Process

SOLDERABILITY: Thru-hole - wave compatible SMT - convection or IR reflow compatible

Materials

CONTACTS/TERMINALS: Base metal: brass

Plating; Ag

DOME: Base metal: Phosphor bronze

Plating; Ag

BASE: PΑ ACTUATOR: PΑ

COVER: R3N option: Stainless steel

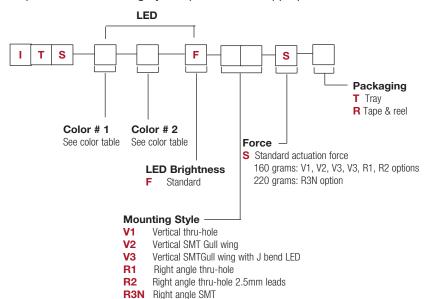
V2 & V3 options - PPA Other options - PA

Caps

Caps are ordered separately and shipped bulk. Thru-hole versions available with caps assembled under custom part number. Contact customer service for details.

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.





^{*} Other colors available by request



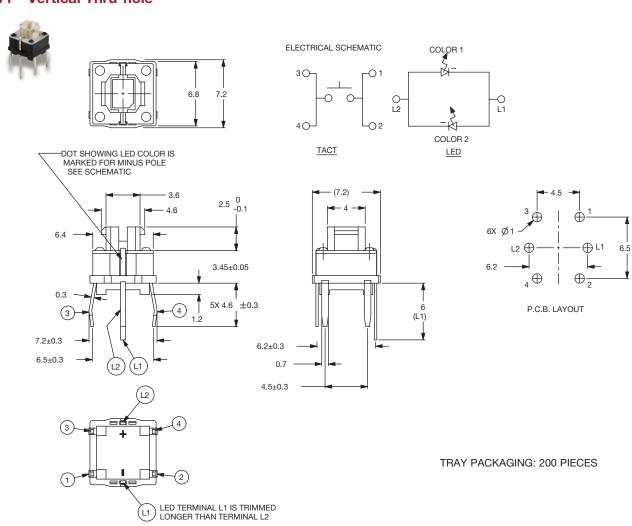
Dimensions are shown: mm Specifications and dimensions subject to change

LED COLOR / BRIGHTNESS

| | | Standard LED Color Options | | | | | |
|---|-----------|----------------------------|-----------------|-----------------|-----------------|---|-------------------|
| LED Characteristic | units | Red (1) | Yellow (2) | Green (3) | Blue (4) | White (5) | True Green (6) |
| Recommended Operating | mA @ 5VDC | 20mA | 20mA | 20mA | 20mA | 20mA | 20mA |
| Forward Current | mA | 30 mA | 30 mA | 30 mA | 30 mA | 30 mA | 30 mA |
| Peak Pulsing Current (1/8 duty @ 1kHz) | mA | 125 mA | 125 mA | 125 mA | 125 mA | 125 mA | 125 mA |
| Power Dissipation | mW | 75 mW | 75 mW | 75 mW | 108 mW | 108 mW | 108 mW |
| Forward Voltage @ 20mA | Volts | 2.5 Volts Max. | 2.5 Volts Max. | 2.5 Volts Max. | 3.6 Volts Max. | 3.6 Volts Max. | 3.6 Volts Max. |
| Dominant Wavelength @ 20mA | nm | 637nm (Typical) | 590nm (Typical) | 570nm (Typical) | 465nm (Typical) | CIE Coordinates X= 0.25 ~ 0.33 Y= 0.24 ~ 0.34 | 522nm (Typical) |
| Wavelength at Peak Emission @ 20mA | nm | 645nm (Typical) | 590nm (Typical) | 573nm (Typical) | 460nm (Typical) | | 515nm (Typical) |
| Spectral Half Bandwidth @ 20mA | nm | 20nm (Typical) | 20nm (Typical) | 17nm (Typical) | 25nm (Typical) | | 33nm (Typical) |
| Luminous Intensity @ 20mA | mcd | 50mcd Minimum | 125mcd Minimum | 40mcd Minimum | 100mcd Minimum | 250mcd Minimum | 500mcd Minimum |
| Viewing Angle at 50% LV (@10mA) | degrees | 150° Typical | 120° Typical | 120° Typical | 120° Typical | 150° Typical | 120° Typical |

MOUNTING STYLES

V1 - Vertical Thru-hole

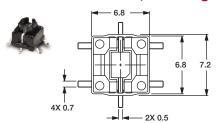


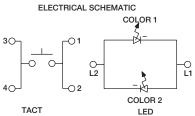


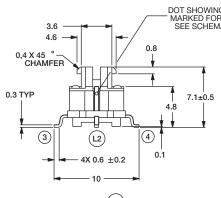
T)

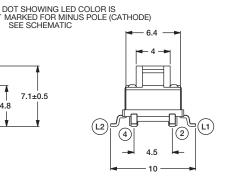
MOUNTING STYLES

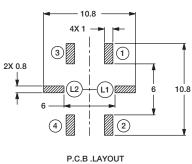
V2 - Vertical SMT; Gullwing

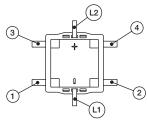


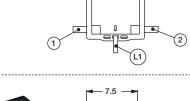




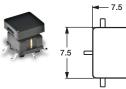


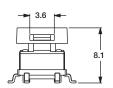


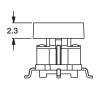




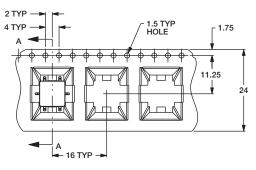
TAPE & REEL: 500 PIECES



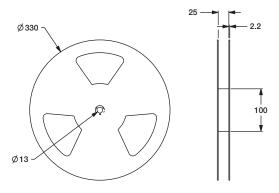




1. SWITCH WITH TEMPORARY PICK AND PLACE CAP.





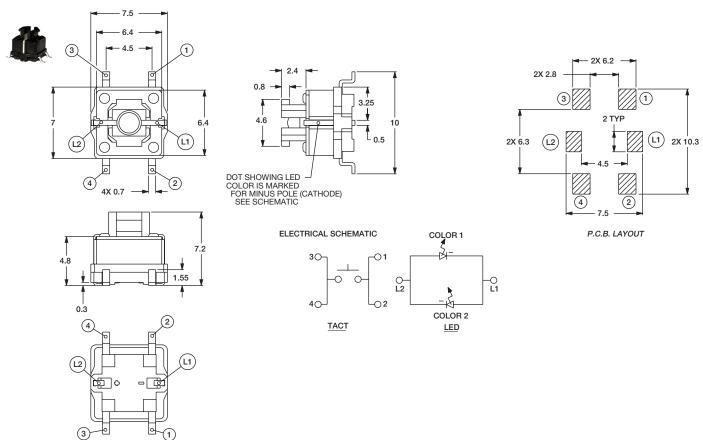


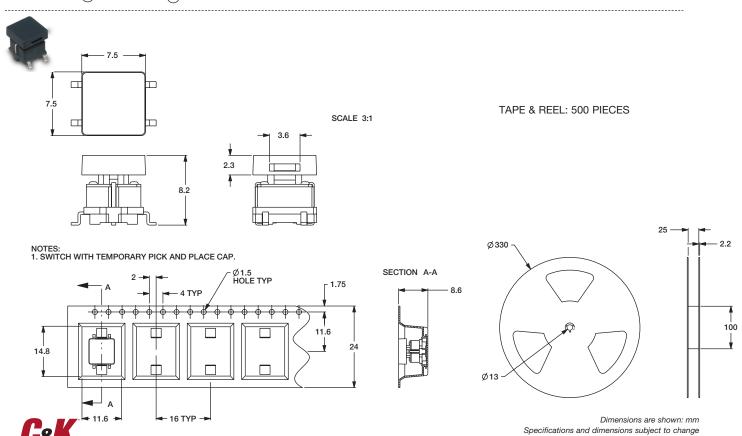


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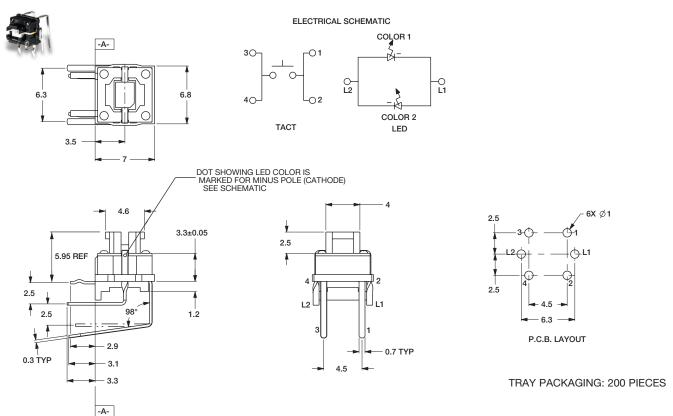
V3 - Vertical SMT; Gull wing with J bend LED



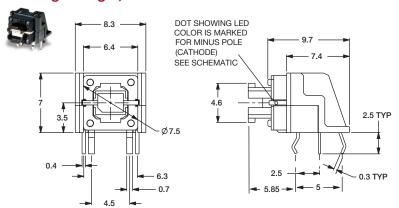


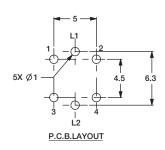
MOUNTING STYLES

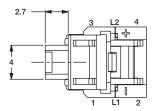
R1 - Right Angle; Thru-hole

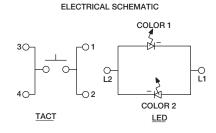


R2 - Right Angle; Thru-hole 2.5mm leads









TRAY PACKAGING: 200 PIECES



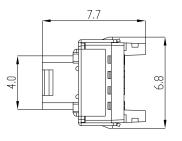
Dimensions are shown: mm Specifications and dimensions subject to change

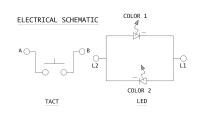
MOUNTING STYLES

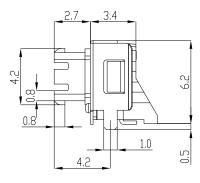
R3N - Right Angle, SMT

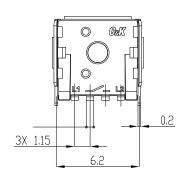


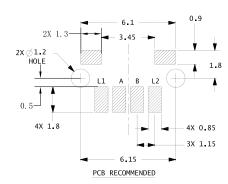




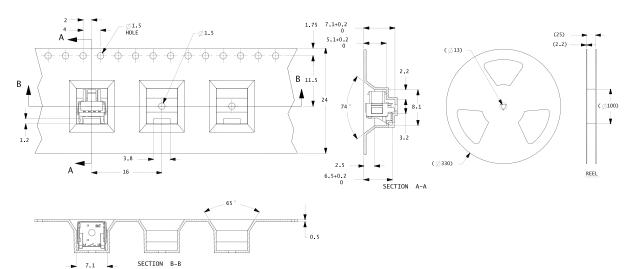








TAPE & REEL: 500 PIECES





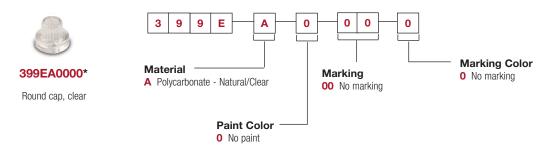
ITS Series Illuminated Tact Switch

FORCE

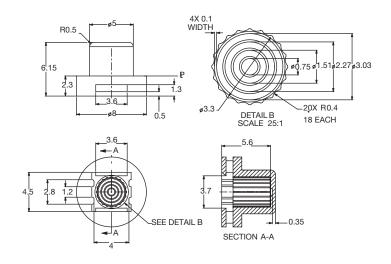
| OPTION CODE | FORCE |
|----------------|-------------------------------------|
| S | Standard |
| | 160 gf - V1, V2, V3, R1, R2 options |
| | 220 gf - R3N option |

CAPS

Use the individual ordering code for each cap



^{*} Not to be used with right angle versions















400EA0000

400EB0000

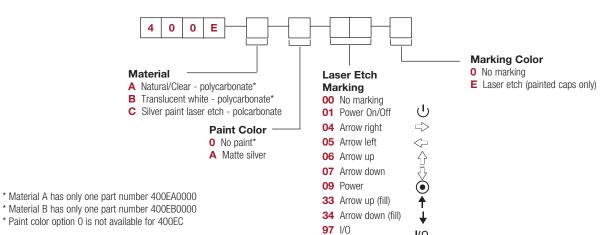
400ECA01E

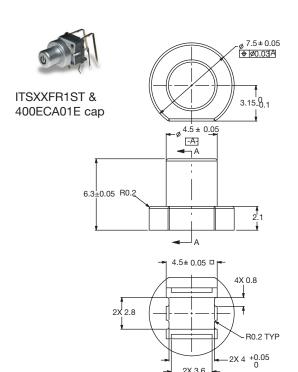
Natural/clear

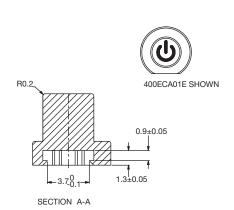
Translucent white, flat edge

Matte silver paint laser etch, flat edge

* All caps not to be used to R3N







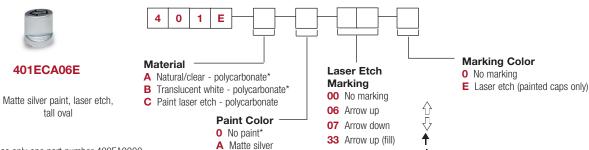
400E cap dimensions shown are "as molded" (no paint).



T)

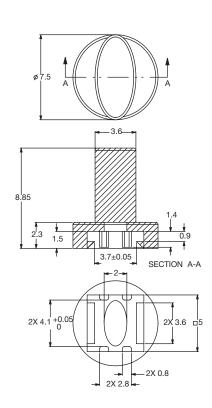
ITS Series Illuminated Tact Switch

CAPS



34 Arrow down (fill)

- * Material A has only one part number 400EA0000
- * Material B has only one part number 400EB0000
- * Paint color option 0 is not available for 400EC



401E cap dimensions shown are "as molded" (no paint).

B-167



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95804.920 95CAP-011 95CAP-112 11-932.7 99-901.9 99-902.9 99-909.4 99-909.5 99-920.8 A0261A 11-931.2 11-932.5 11-936

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