

TACT  
SWITCHESNAVIGATION  
SWITCHESPUSHBUTTON  
SWITCHESTOGGLE  
SWITCHESROCKER  
SWITCHESSLIDE  
SWITCHESSNAP-ACTION  
SWITCHESDIP  
SWITCHESKEYLOCK  
SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS

# SERIES TL1105 SWITCHES

## TACT SWITCHES - 6mm x 6mm



### SPECIFICATIONS

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Contact Rating:        | 50mA @ 12 VDC (50mA @ 50VDC-gold)                                               |
| Life Expectancy:       | 100,000 cycles                                                                  |
| Contact Resistance:    | 100mΩ max., typical @ 2-4 VDC<br>100mA for both silver and gold plated contacts |
| Insulation Resistance: | 100MΩ min.                                                                      |
| Dielectric Strength:   | 250 VAC                                                                         |
| Actuation Force:       | 100 ± 50 gf, 160 ± 50 gf, 250 ± 50 gf                                           |
| Operating Temperature: | -20°C to 70°C                                                                   |
| Travel:                | 0.25 Typ                                                                        |

### FEATURES & BENEFITS

- ▶ Reliable dome contact technology
- ▶ Strong tactile/audible feedback
- ▶ Multiple operating force options

### APPLICATIONS/MARKETS

- ▶ Telecommunications
- ▶ Consumer Electronics
- ▶ Audio/visual
- ▶ Medical
- ▶ Testing/instrumentation
- ▶ Computer/servers/peripherals



### HOW TO ORDER

| SERIES                                     | MODEL NO. | ACTUATOR<br>("L" Dimension)                                                                                                                                                                                                                                                                      | OPERATING<br>FORCE   | CONTACT MTL/<br>TERMINATION | CAP<br>(Where Avail.)                                    | CAP<br>COLOR |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------|----------------------------------------------------------|--------------|
| TL<br>TLE = Earth Ground<br>LL = Long Life | 1105      | (None) = 4.3mm<br>A = 5.0mm<br>B = 9.5mm<br>C = 8.0mm<br>D = 13.0mm<br>E = 7.3mm<br>F = 7.0mm<br>G = 9.7mm<br>H = 12.5mm<br>K = 13.5mm<br>(Not available for<br>LL Series)<br>L = 17.0mm<br>P = 8.5mm<br>Y = 16.3mm<br>T = 2.4mm <input type="checkbox"/><br>SP = 2.8mm <input type="checkbox"/> | F100<br>F160<br>F250 | Q = Silver<br>R = Gold      | See Cap Options<br>Caps available for<br>SP option only. |              |

☐ – Square Snap-on Actuator Head  
"L" Dimension is 7.5mm

**Note: Contact E-Switch for additional  
Operating Force Options.**

|                      |                     |                                                                                                                                                                                             |                      |                        |                                                          |
|----------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|----------------------------------------------------------|
| TL<br>LL = Long Life | 1105<br>(Rt. Angle) | V = 3.85mm<br>W = 3.15mm<br>X = 5.85mm<br>R = 6.15mm<br>M = 6.85mm<br>S = 8.35mm<br>N = 11.85mm<br>Q = 15.85mm<br>J = 2.4mm <input type="checkbox"/><br>JA = 2.8mm <input type="checkbox"/> | F100<br>F160<br>F250 | Q = Silver<br>R = Gold | See Cap Options<br>Caps available for<br>JA option only. |
|----------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|----------------------------------------------------------|



### Example Ordering Number

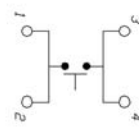
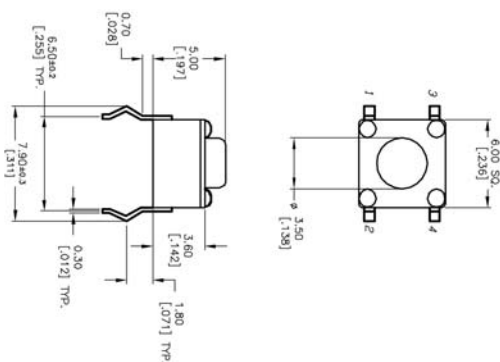
TL-1105-SP-F160-Q-1R RED

☐ – Square Snap-on Actuator Head  
"L" Dimension is 6.35mm

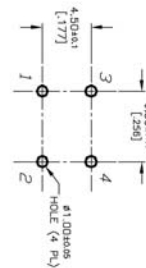
Specifications subject to change without notice.



## TL 1105/LL 1105



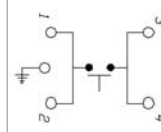
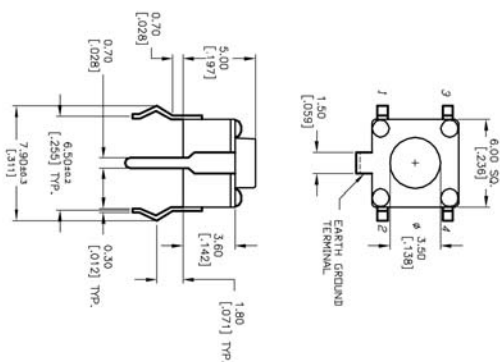
SCHEMATIC



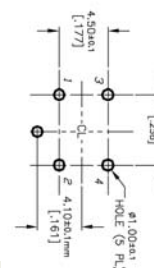
P.C. MOUNTING

## TLE 1105

TLE (EARTH TERMINAL)



SCHEMATIC

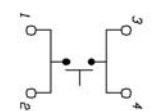
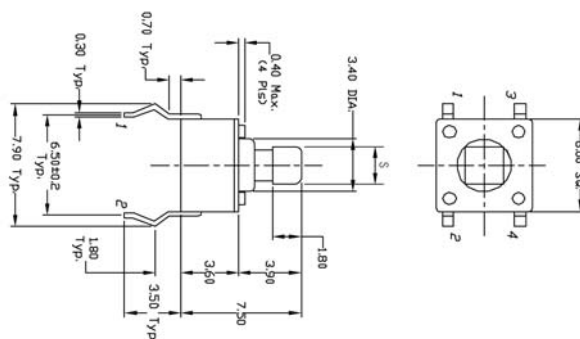


P.C. MOUNTING

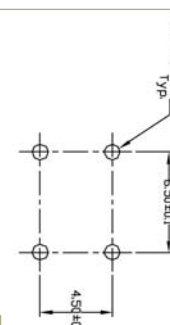
## TL 1105 T



| Model No. | 'S' Dim. |
|-----------|----------|
| TL1105T   | 2.4 mm   |
| TL1105SP  | 2.8 mm   |



SCHEMATIC



P.C. MOUNTING



# SERIES TL1105 SWITCHES

TACT SWITCHES - 6mm x 6mm

TACT  
SWITCHES

NAVIGATION  
SWITCHES

PUSHBUTTON  
SWITCHES

TOGGLE  
SWITCHES

ROCKER  
SWITCHES

SLIDE  
SWITCHES

SNAP-ACTION  
SWITCHES

DIP  
SWITCHES

KEYLOCK  
SWITCHES

ROTARY  
SWITCHES

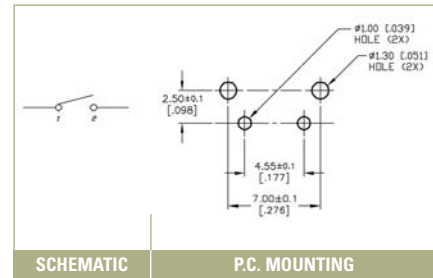
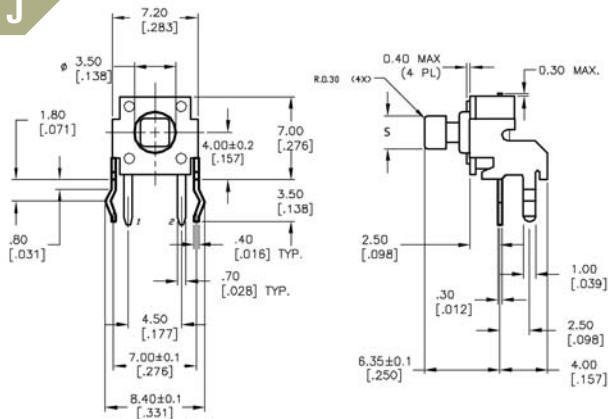
DETECTOR  
SWITCHES

CAP  
OPTIONS

## TL 1105 J/LL 1105 J



| Model No. | 'S' Dim. |
|-----------|----------|
| TL1105J   | 2.4 mm   |
| TL1105JA  | 2.8 mm   |

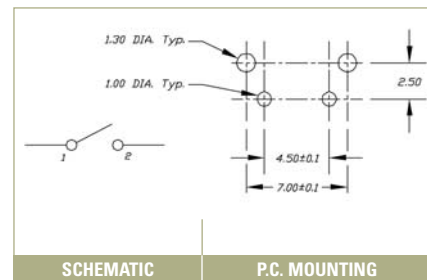
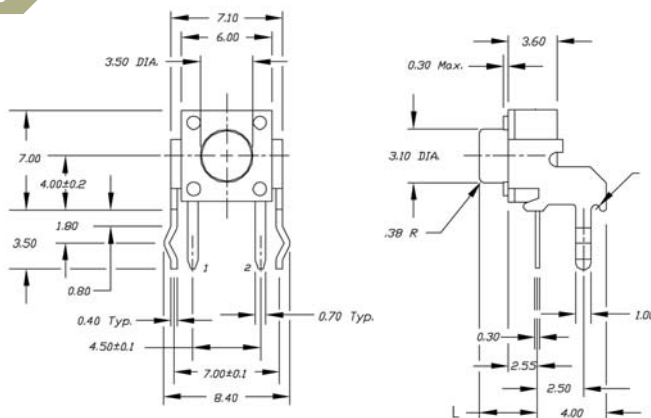


SCHEMATIC

P.C. MOUNTING

## TL 1105/LL 1105

RIGHT ANGLE



SCHEMATIC

P.C. MOUNTING

# Mouser Electronics

Authorized Distributor

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## E-Switch:

[TL1105F160R](#) [TL1105EF160Q](#) [TL1105V](#) [TL1105FF250QBLACKSTEM](#) [TL1105KF100Q](#) [LL1105LF065Q](#)  
[TL1105JA-F160Q](#)