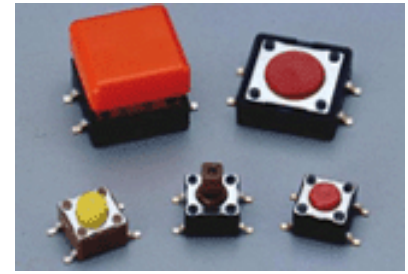


**ADTS6, ADTSM &  
AKTSC6 SERIES  
(SQUARE STEM WITH CAP OPTIONS)  
MECHANICAL CONTACT STYLE**



### FEATURES

- Positive tactile feedback.
- Ultraminiature structure suitable for high density mounting. Economic but high reliability.
- Insert molded terminals prevent flux build-up during soldering.

### MATERIALS

|               |                                                                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| COVER:        | Stainless steel.                                                                                                                                 |
| BASE:         | UL94V-0 Nylon Thermoplastic.<br>Color: Black                                                                                                     |
| STEM:         | UL94V-0 Nylon Thermoplastic.<br>Color: Black(100gf), Brown(160gf), Red(260gf), Salmon(320gf), Yellow(520gf)<br>Silicone rubber Color: Red(300gf) |
| CONTACT DISC: | Phosphor bronze with silver cladding.                                                                                                            |
| TERMINAL:     | Brass with silver plating.                                                                                                                       |
| CAP:          | Termoplastic ABS.                                                                                                                                |

### GENERAL SPECIFICATIONS

#### ELECTRICALS

|                        |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| Electrical life:       | 100,000 cycles for 320gf, 520gf.<br>100,000 cycles for 260gf.<br>200,000 cycles for 100gf, 160gf. |
| Rating:                | 50 mA, 12 VDC.                                                                                    |
| Contact resistance:    | 100 milliohms max.                                                                                |
| Insulation resistance: | 100 megohms min. 500 VDC.                                                                         |
| Dielectric Strength:   | 250 VAC /1 minute.                                                                                |
| Contact Arrangement:   | 1 pole 1 throw.                                                                                   |

#### MECHANICALS

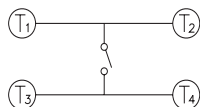
|                              |                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Force:           | 520 ± 130gf Brown (Y)<br>320 ± 80gf Brown (S)<br>260 ± 50gf Red (R)<br>160 ± 50gf Brown (N)<br>100 ± 50gf Black (K)                                                               |
| Stop Strength:               | Max 3kgf vertical static load continuously for 15 seconds.                                                                                                                        |
| Stoke:                       | (12x12) 0.35 ± 0.1 mm<br>(6x6) 0.25 ± 0.2 mm<br>- 0.1 mm                                                                                                                          |
| Operating Temperature Range: | -25°C to + 70°C                                                                                                                                                                   |
| Storage Temperature Range:   | -30°C to + 80°C                                                                                                                                                                   |
| Vibration resistance:        | MIL-STD-202F METHOD 201A.<br>Frequency: 10-55-10Hz/1 minute.<br>Directions: X,Y,Z, three mutually perpendicular directions.<br>Time: 2 hours each direction.<br>High reliability. |
| Shock resistance:            | MIL-STD-202F METHOD 213B.<br>Frequency: 10-55-10Hz/1 minute.<br>Directions: X,Y,Z, three mutually perpendicular directions.<br>Time: 2 hours each direction.<br>High reliability. |

## SOLDERING PROCESSES

**WAVE SOLDERING:** Recommended solder temperature at 500°F (260°C) max. 5 seconds subject to PCB 1.6mm thickness. (For through hole type)

**HAND SOLDERING:** Use a soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

## CIRCUIT



## HOW TO ORDER

**ADTS**



**V**



Package Style:

☐ = Bulk Pack

\* B = Tube

\* Except ADTS-63, 644, 648, 65, 66

Soldering:

V = Lead Free

Color Of Stem For Operating Force:

K = Black, 100gf

N = Brown, 160gf

R = Red, 260gf

S = Salmon, 320gf

Y = Yellow, 520gf

N/K = Black, 160gf

< 12 x 12, K, Y Unavailable >

Dimension H:

6 x 6mm:

1 = 4.3mm

2 = 5.0mm

3 = 7.0mm

44 = 7.3mm (SQ.) x 2.4mm

48 = 7.3mm (SQ.) x 2.8mm

5 = 9.5mm

6 = 13mm

12 x 12mm:

1 = 4.3mm

4 = 7.3mm (SQ.) x 3.8mm

5 = 8.5mm

Prod. Size

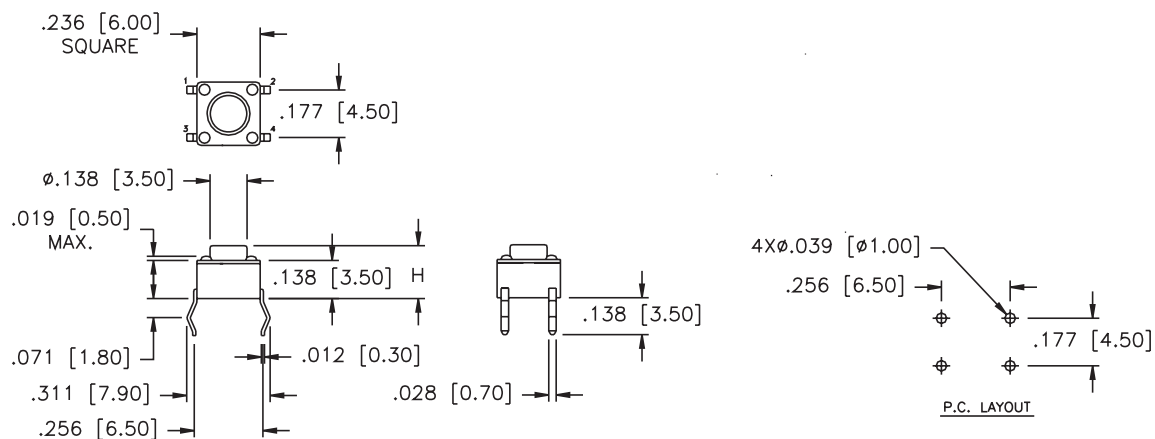
6 = 6.6mm

2 = 12 x 12mm

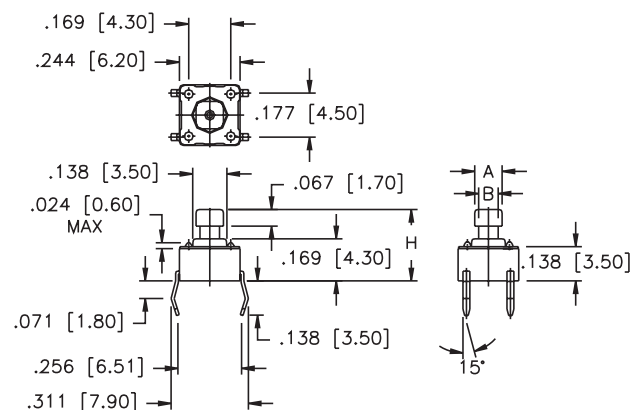
☐ = None Post

M = Surface Mount

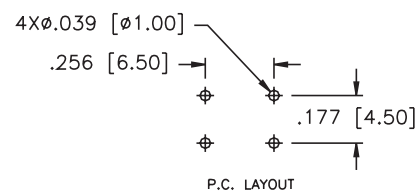
### ADTS6\*\*V



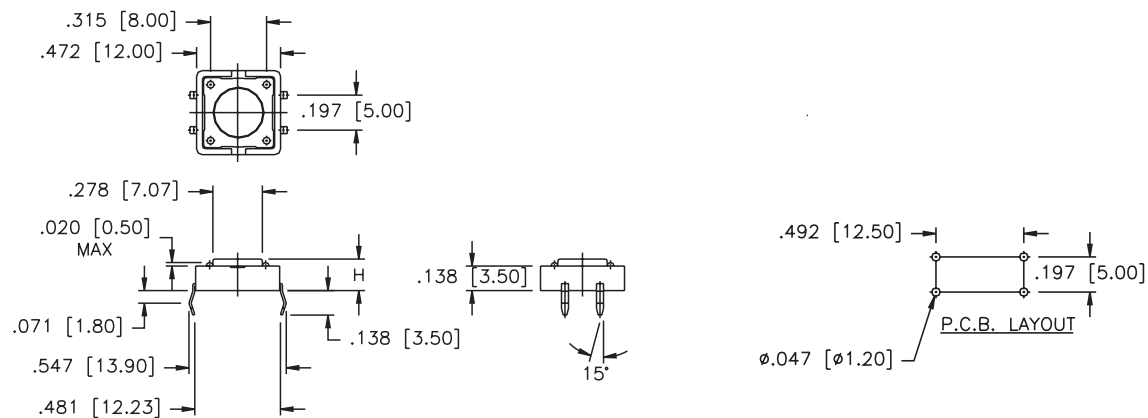
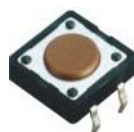
### ADTS64\*\*V



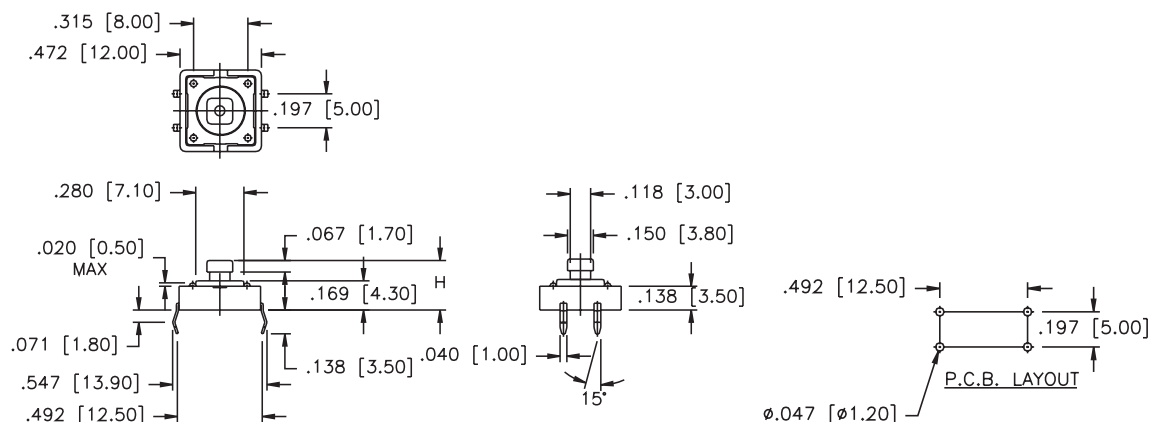
| PRODUCT NO. | LOC. | MM. | INCH   |
|-------------|------|-----|--------|
| ADTS644*V   | A    | 2.4 | [.095] |
|             | B    | 1.6 | [.063] |
| ADTS648* V  | A    | 2.8 | [.110] |
|             | B    | 2.0 | [.079] |



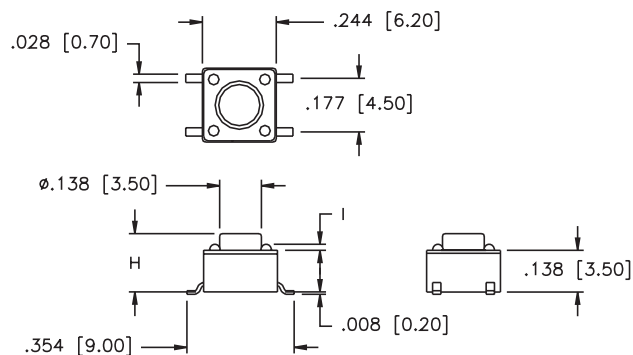
### ADTS2\*\*V



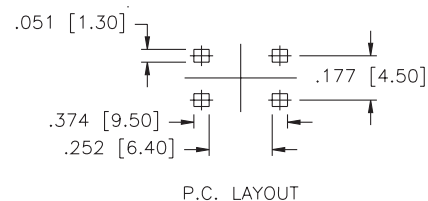
### ADTS24\*V



# **ADTSM6\*\*V**

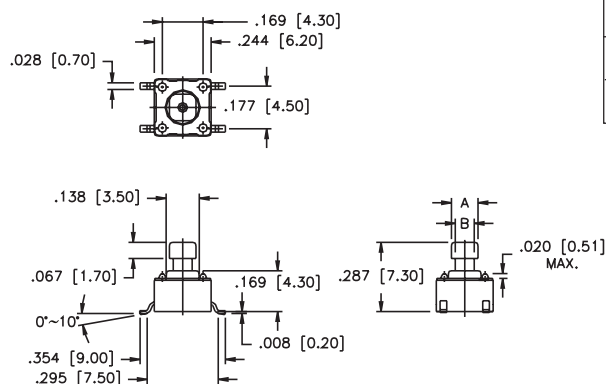


| PART NUMBER. | DIM. I    |
|--------------|-----------|
| ADTSM62~66*  | .024 MAX. |
| ADTSM61*     | .020 MAX. |

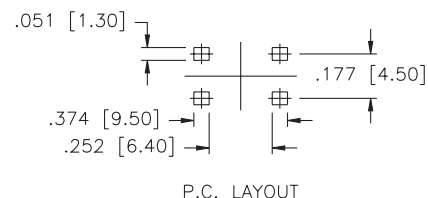


P.C. LAYOUT

# **ADTSM64\*\*V**

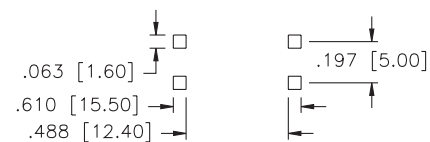
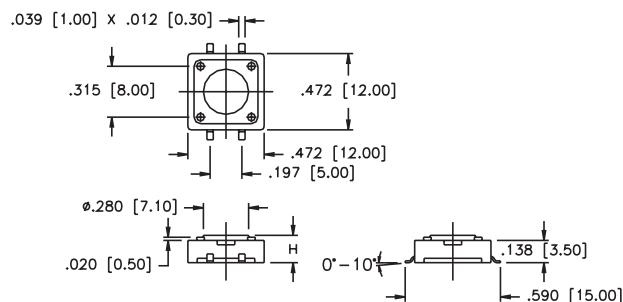


| PART NUMBER. | DIM. A     | DIM. B     |
|--------------|------------|------------|
| ADTSM644*V*  | .094 [2.4] | .063 [1.6] |
| ADTSM648*V*  | .100 [2.8] | .079 [2.0] |



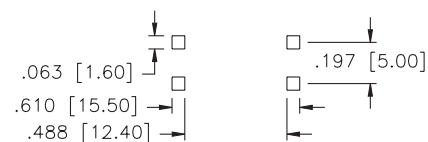
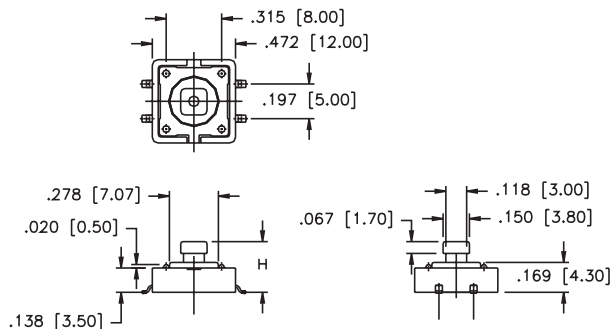
P.C. LAYOUT

# **ADTSM2\*\*V**



P.C. LAYOUT

# **ADTSM24\*V**



P.C. LAYOUT

# AKTSC CAPS



## CAP PART NO.

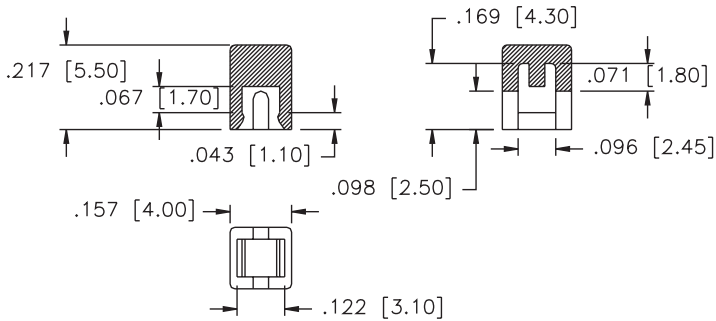
AKTSC         

Cap Type:  
1 = Square  
2 = Round

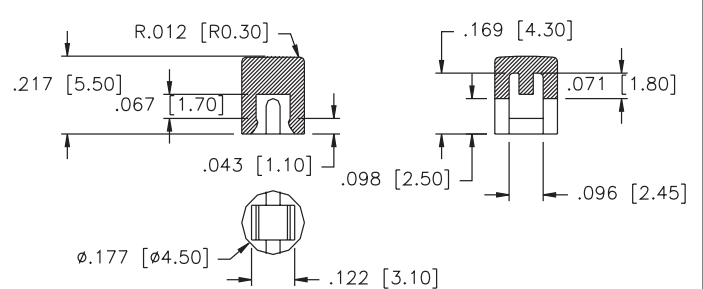
Prod. Size: ( Tactile Switch )  
6 = 6 x 6mm  
2 = 12 x 12mm

Cap Color:  
Y= Yellow  
B = Blue  
R = Red  
I = Ivory  
K = Black  
G = Green  
S = Salmon

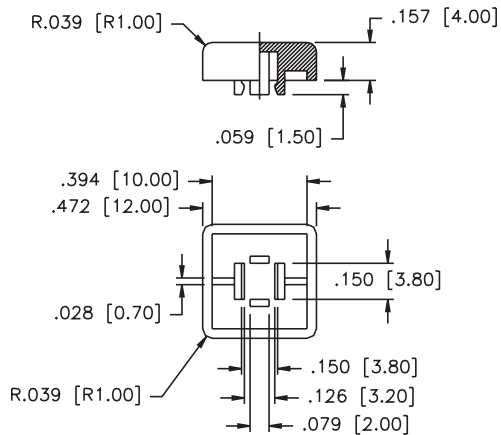
### AKTSC61



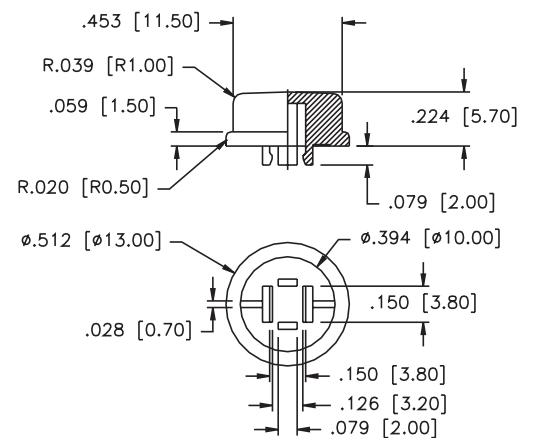
### AKTSC62



### AKTSC21



### AKTSC22



## PACKAGING

ADTS-6 Series: 1000 pcs/bag  
ADTS(P)-2 series: 500 pcs/bag or 40pcs/tube

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Apem:

[ADTS63RV](#) [ADTS63SV](#) [ADTS63YV](#) [ADTS644KV](#) [ADTS644NV](#) [ADTS644RV](#) [ADTS644SV](#) [ADTS644YV](#)  
[ADTS648KV](#) [ADTS648NV](#) [ADTS648RV](#) [ADTS648SV](#) [ADTS648YV](#) [ADTS65KV](#) [ADTS65NV](#) [ADTS65RV](#)  
[ADTS65SV](#) [ADTS65YV](#) [ADTS66KV](#) [ADTS66NV](#) [ADTS66RV](#) [ADTS66SV](#) [ADTS66YV](#) [ADTSF60KV](#)  
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[ADTSF61NV](#) [ADTSF61NVTR](#) [ADTSF61RV](#) [ADTSF61RVTR](#) [ADTSF62KV](#) [ADTSF62KVTR](#) [ADTSF62NV](#)  
[ADTSF62NVTR](#) [ADTSF62RV](#) [ADTSF62RVTR](#) [ADTSGF60KVTR](#) [ADTSGF60NVTR](#) [ADTSGF60RVTR](#)  
[ADTSGF61KVTR](#) [ADTSGF61RVTR](#) [ADTSGF62RVTR](#) [ADTSGL62NVTR](#) [ADTSM21NV](#) [ADTSM21NVTR](#)  
[ADTSM21RV](#) [ADTSM21RVTR](#) [ADTSM24NV](#) [ADTSM24NVTR](#) [ADTSM24RV](#) [ADTSM24RVTR](#) [ADTSM25NV](#)  
[ADTSM25NVTR](#) [ADTSM25RV](#) [ADTSM25RVTR](#) [ADTSM61KV](#) [ADTSM61KVTR](#) [ADTSM61NV](#) [ADTSM61NVTR](#)  
[ADTSM61RV](#) [ADTSM61RVTR](#) [ADTSM61SV](#) [ADTSM61SVTR](#) [ADTSM61YV](#) [ADTSM61YVTR](#) [ADTSM62KV](#)  
[ADTSM62KVTR](#) [ADTSM62NV](#) [ADTSM62NVTR](#) [ADTSM62RV](#) [ADTSM62RVTR](#) [ADTSM62SV](#) [ADTSM62SVTR](#)  
[ADTSM62YV](#) [ADTSM62YVB](#) [ADTSM62YVTR](#) [ADTSM63KV](#) [ADTSM63KVTR](#) [ADTSM63NV](#) [ADTSM63NVTR](#)  
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[ADTSM644KVTR](#) [ADTSM644NBV](#) [ADTSM644NV](#) [ADTSM644NVTR](#) [ADTSM644RV](#) [ADTSM644RVTR](#)  
[ADTSM644SV](#) [ADTSM644SVTR](#)