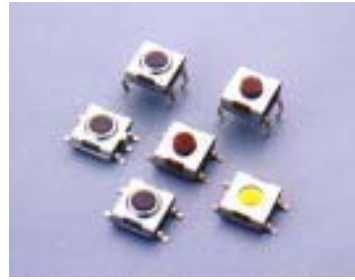


# WASHABLE TACT SWITCH



## FEATURES

- Sharp click feel with a positive tactile feedback.
- Ultraminiature structure suitable for high density mounting. Economic but high reliability.
- Insert molded contacts with special treatment prevents flux build-up during soldering and permits auto-dipping.
- Allows submersed washing after soldering.

## MATERIALS

COVER: Stainless Steel.  
TERMINALS: Brass with silver plating.  
BASE: UL94V-0 Nylon, High Temperature Thermoplastic.  
Color: Black

|               |                                                                               |                                        |
|---------------|-------------------------------------------------------------------------------|----------------------------------------|
| ITEM NO.      | ADTSHW66N<br>ADTSMW66N<br>ADTSJW66N                                           | ADTSHW68S<br>ADTSMW68S<br>ADTSJW68S    |
| STEM          | High-Temp.<br>Thermoplastic<br>Nylon UL 94V-0<br>Color: Brown(N), 160gf       | None                                   |
| ADHESIVE TAPE | TEFLON                                                                        | TEFLON (Standard)<br>KAPTON (V-option) |
| METAL STEM    | Brass with<br>Nickel plating                                                  | Brass with<br>Nickel plating           |
| FILLER        | None                                                                          | None                                   |
| CONTACT       | Phosphor bronze with silver cladding (Standard)<br>Stainless steel (V-option) |                                        |

|               |                                                                                |                                   |
|---------------|--------------------------------------------------------------------------------|-----------------------------------|
| ITEM NO.      | ADTS(H)MW69,65N (R)T<br>ADTSJW69,65N (R)T                                      | ADTS(H)MW67N(R)T<br>ADTSJW67N(R)T |
| STEM          | Silicone Rubber                                                                | Silicone Rubber                   |
| ADHESIVE TAPE | None                                                                           | None                              |
| METAL STEM    | None                                                                           | None                              |
| FILLER        | None                                                                           | Nylon                             |
| CONTACT       | Phosphor bronze with<br>silver cladding(Standard)<br>Stainless steel(V-option) | Stainless Steel                   |

## GENERAL SPECIFICATIONS

### ELECTRICAL

Electrical life: 500,000 cycles for ADTS ☐ W 69, 67N(R)T, 65N(R)T, 64N(R)  
100,000 cycles for ADTS ☐ W 66N,68S

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.

### MECHANICAL

Stop Strength: 3kgf max, continuous vertical static load.

Stroke: 0.25 + 0.2 mm - 0.1 mm 66N, 68S  
0.6 ± 0.2 mm, 69, 67T  
0.45 ± 0.2 mm, 69, 67, 65N(R), 65T, 64, J=64N(R)

Operation Temperature Range: -25°C to +70°C

Storage Temperature: -30°C to +80°C

Shock Resistance: 50G per method 213B, MIL - STD - 202F

Vibration Resistance: Passes method 201A, MIL - STD - 202F

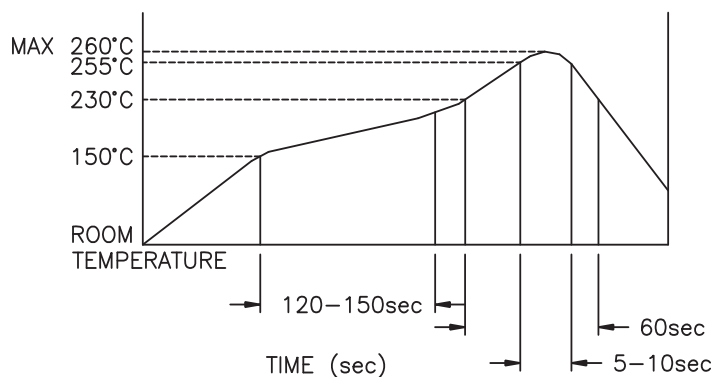
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## SOLDERING PROCESSES

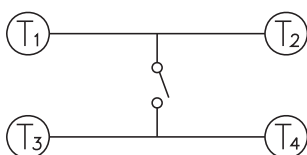
HAND SOLDERING: 350°C max. for 5 seconds max. (30 watt iron max).

WAVE SOLDERING: 260°C max. for 5 seconds max.

REFLOW SOLDERING: 255°C max.(see profile)



### CIRCUIT



## HOW TO ORDER

**A D T S**



**W**



**V**



B = Tube Package  
T/R = Tape & Reel  
☐ = Bulk ( J Type only)

V = Lead Free Solderable

Color Of Stem For Operating Force:

N = Brown, 160gf ( 66N )  
180gf ( 69N, 67N, 65N, 64)

S = Silver, 160gf

R = Red, 260gf

T = Transparent, 360gf (69T, 67T, 65T )

Dimension H:

64 = 4.5mm ( N, R )

65 = 3.5mm ( N, R, T )

66 = 3.1mm ( N )

67 = 5.2mm ( N, R, T )

68 = 2.3mm ( S )

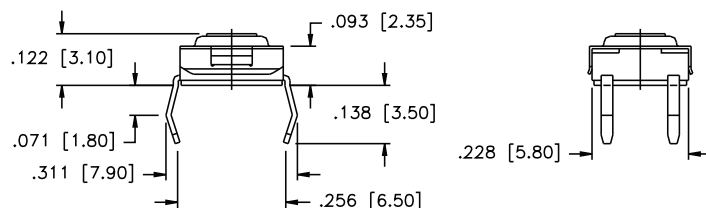
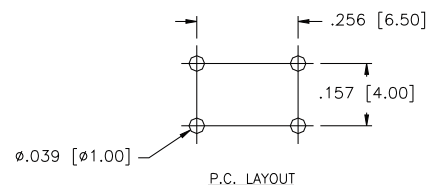
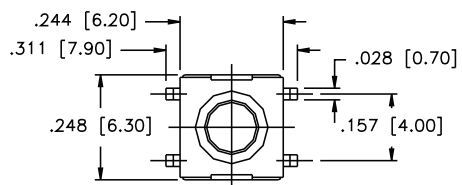
69 = 3.8mm ( N, R, T )

H: Through Hole Terminals

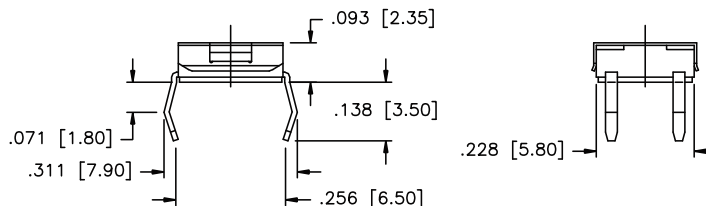
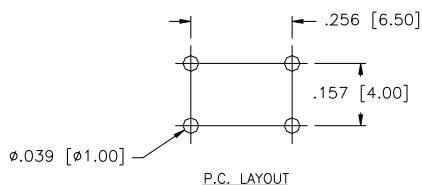
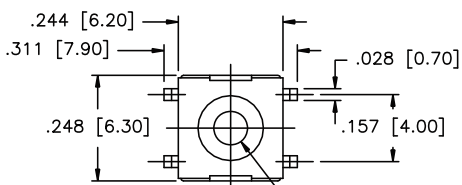
J: Surface Mounting Type

M: Surface Mounting Type

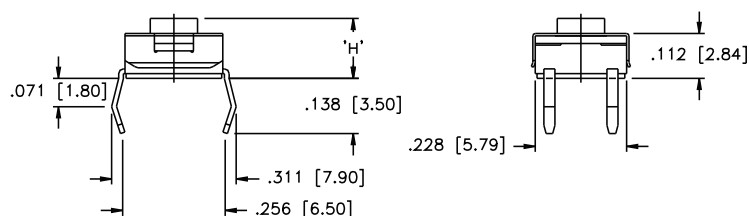
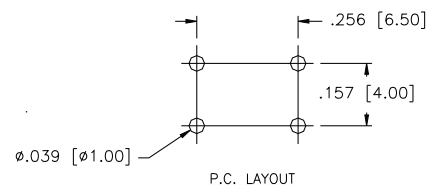
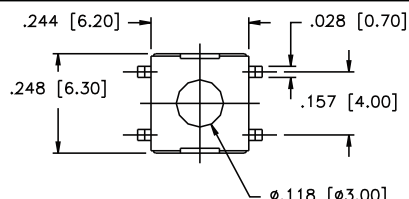
### ADTSHW66



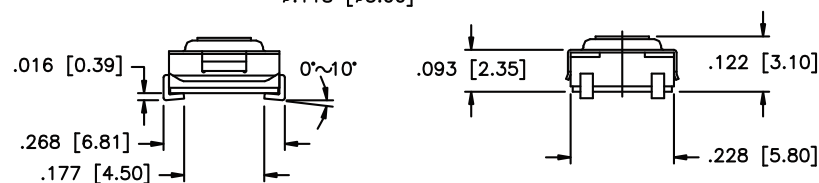
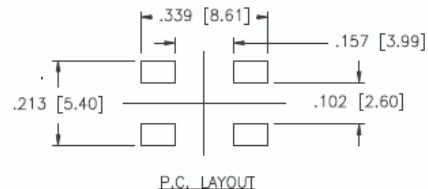
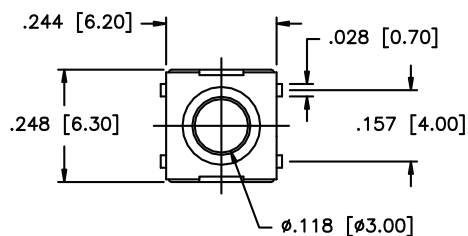
### ADTSHW68

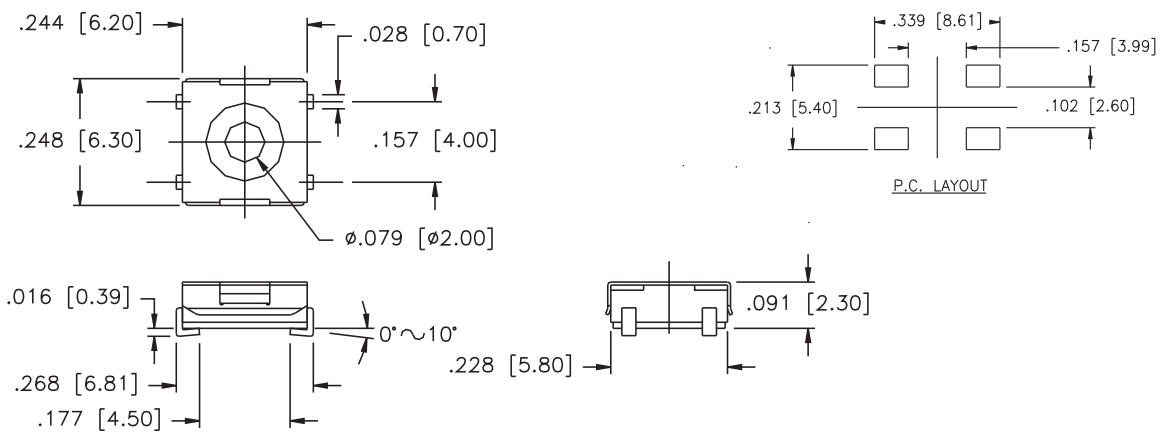
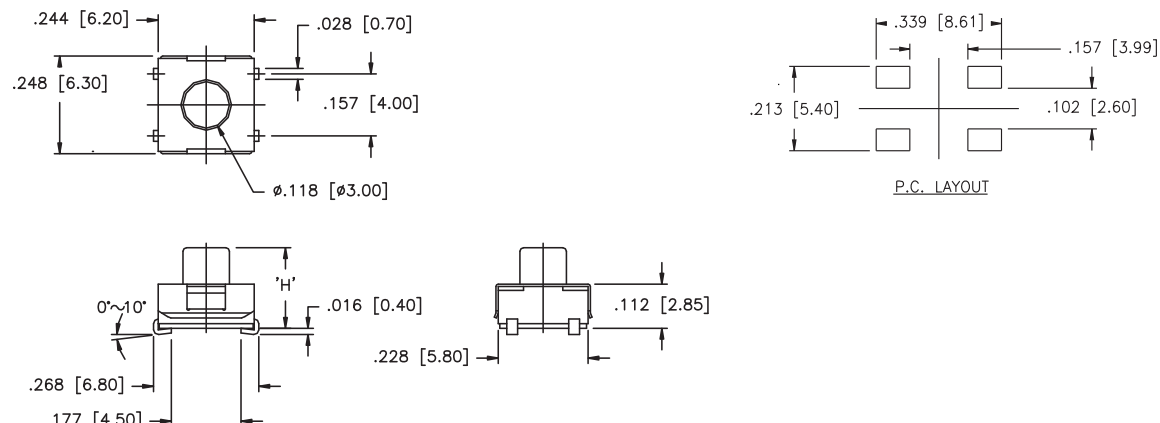
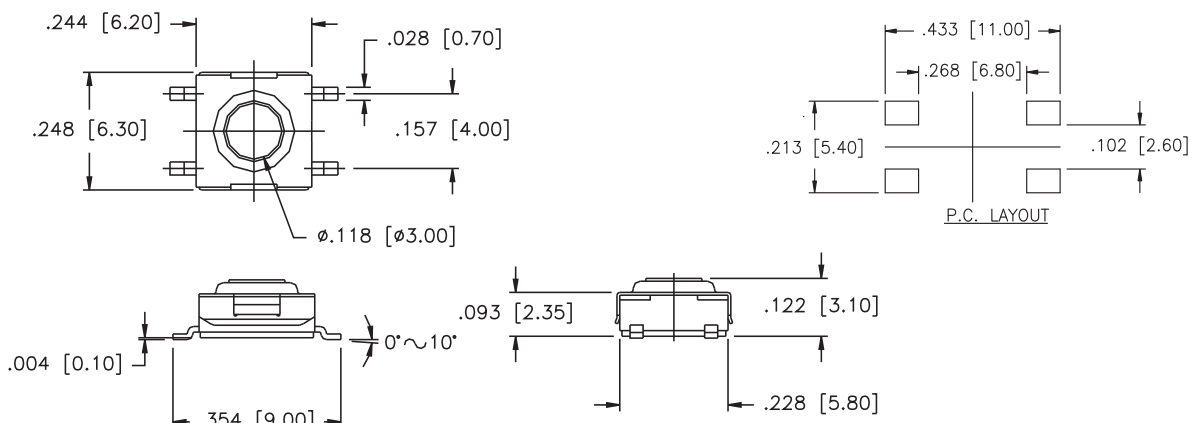
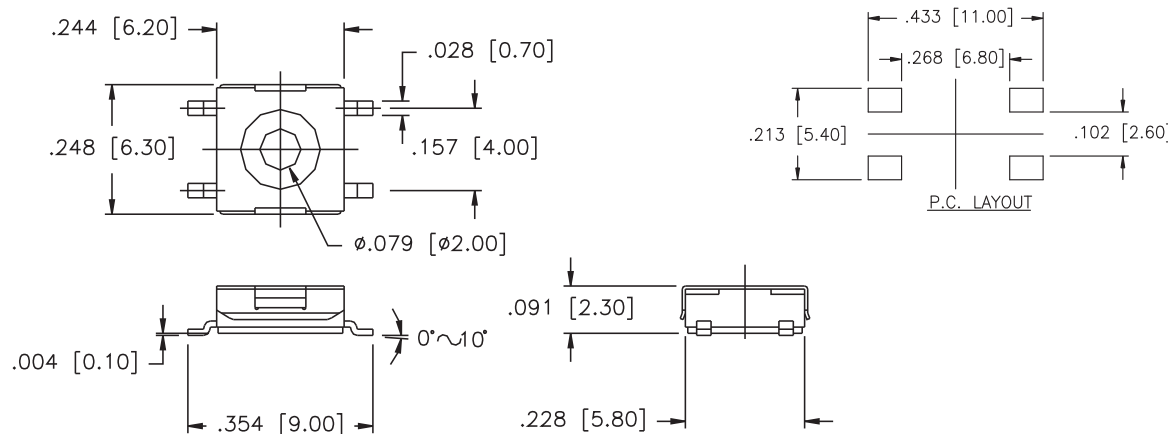


### ADTSHW69 ADTSHW67 ADTSHW65 ADTSHW64



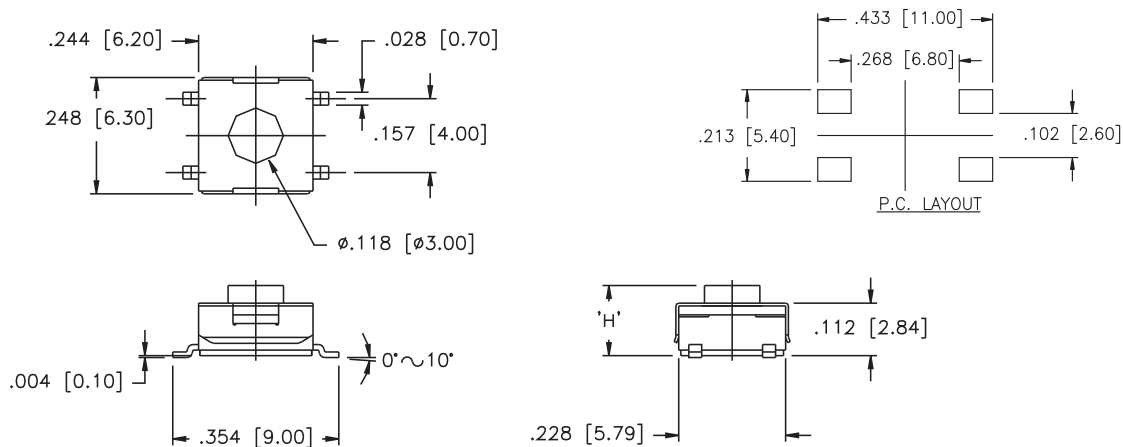
### ADTSJW66



|                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADTSJW68</b><br><br>                                       |  <p>Top view dimensions: .244 [6.20], .248 [6.30], .028 [0.70], .157 [4.00], <math>\phi .079 [\phi 2.00]</math></p> <p>Side view dimensions: .016 [0.39], .268 [6.81], .177 [4.50], <math>0^{\circ} \sim 10^{\circ}</math>, .228 [5.80], .091 [2.30]</p> <p>P.C. LAYOUT dimensions: .339 [8.61], .157 [3.99], .213 [5.40], .102 [2.60]</p>       |
| <b>ADTSJW69</b><br><b>ADTSJW67</b><br><b>ADTSJW65</b><br><br> |  <p>Top view dimensions: .244 [6.20], .248 [6.30], .028 [0.70], .157 [4.00], <math>\phi .118 [\phi 3.00]</math></p> <p>Side view dimensions: <math>0^{\circ} \sim 10^{\circ}</math>, .268 [6.80], .177 [4.50], 'H', .016 [0.40], .228 [5.80], .112 [2.85]</p> <p>P.C. LAYOUT dimensions: .339 [8.61], .157 [3.99], .213 [5.40], .102 [2.60]</p> |
| <b>ADTSMW66</b><br><br>                                     |  <p>Top view dimensions: .244 [6.20], .248 [6.30], .028 [0.70], .157 [4.00], <math>\phi .118 [\phi 3.00]</math></p> <p>Side view dimensions: .004 [0.10], .354 [9.00], <math>0^{\circ} \sim 10^{\circ}</math>, .093 [2.35], .122 [3.10], .228 [5.80]</p> <p>P.C. LAYOUT dimensions: .433 [11.00], .268 [6.80], .213 [5.40], .102 [2.60]</p>    |
| <b>ADTSMW68</b><br><br>                                     |  <p>Top view dimensions: .244 [6.20], .248 [6.30], .028 [0.70], .157 [4.00], <math>\phi .079 [\phi 2.00]</math></p> <p>Side view dimensions: .004 [0.10], .354 [9.00], <math>0^{\circ} \sim 10^{\circ}</math>, .091 [2.30], .228 [5.80]</p> <p>P.C. LAYOUT dimensions: .433 [11.00], .268 [6.80], .213 [5.40], .102 [2.60]</p>                 |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

**ADTSMW69**  
**ADTSMW67**  
**ADTSMW65**  
**ADTSMW64**



## PACKAGING

Tube: 75 pcs/tube

ADTSMW64 ☐ -T/R: 900 pcs/reel  
 ADTSMW65 ☐ -T/R: 1900 pcs/reel  
 ADTSMW66 ☐ -T/R: 2000 pcs/reel  
 ADTSMW67 ☐ -T/R: 900 pcs/reel  
 ADTSMW68 ☐ -T/R: 2000 pcs/reel  
 ADTSMW69 ☐ -T/R: 1900 pcs/reel

Tube: 75 pcs/tube

ADTSJW64 ☐ -T/R: 900 pcs/reel  
 ADTSJW65 ☐ -T/R: 1800 pcs/reel  
 ADTSJW66 ☐ -T/R: 1900 pcs/reel  
 ADTSJW67 ☐ -T/R: 900 pcs/reel  
 ADTSJW68 ☐ -T/R: 2700 pcs/reel  
 ADTSJW69 ☐ -T/R: 1800 pcs/reel