

## Tactile Switches Specifications :

1. Rating : 50mA 12V DC (resistive load)

### 2. Electrical performance

Item	Test Condition	Performance
Contact Resistance	100mA 5V DC	100M $\Omega$ max
Insulation Resistance	100V DC for 1 minute	100M $\Omega$ min
Withstand Voltage	250V AC for 1 minute	Shall be free from dielectric breakage

### 3. Mechanical Performance :

Item	Test Condition	Performance
Operating force		As per Individual Specifications
Stop Strength	2-3Kgf for 3 seconds	No deformation & Mechanical problem found
Bounce	The key shall be struck lightly vertically at it's center at a uniform cycling rate of 3 operations per second	10m seconds maximum

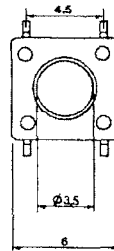
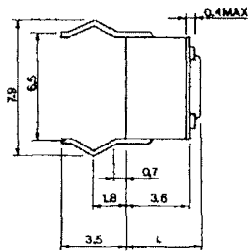
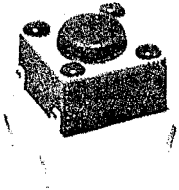
### 4. Endurance

Item	Test Condition	Performance
Life test	-3 Cycles/second with 5V DC 5mA resistive load cycles of operation : as per individual specifications	<ul style="list-style-type: none"> <li>• DContact resistance 200m <math>\Omega</math> max</li> <li>• DOperating force : <math>\pm 30\%</math> initial value</li> <li>• DInsulation resistance: 10M <math>\Omega</math> min</li> </ul>
Dry Heat Proof	80 $\pm 2^{\circ}\text{C}$ for 96 hours after test, kept in normal condition for 30 minutes	Equality to initial specifications
Moisture Resistance	60 $\pm 2^{\circ}\text{C}$ for 90~95% RH for 96 hours after test, kept in normal condition for 30 minutes	Equality to initial specifications
Cold Proof	-30 $^{\circ}\text{C}$ for 96 hours after test, kept in normal condition for 30 minutes	Equality to initial specifications

5. Solder Heat Resistance & Auto Soldering : 255 $^{\circ}\text{C}$  5 seconds

# MEC Tactile Switch

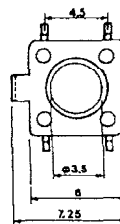
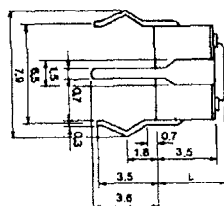
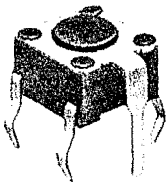
**MTS-1102**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.25 \pm 0.1$  m/m
4. Operating Force :  $160 \pm 30$  gf
5. Contact Resistance :  $100\text{m} \Omega$  max
6. Life : 100,000 Cycles min

Model no.	Knob (L)
MTS-1102 (TS-1)	4.3
MTS-1102A (TS-2)	5.0
MTS-1102D (TS-3)	7.0
MTS-1102E (TS-6E)	8.0
MTS-1102C (TS-4)	9.5
MTS-1102G (TS-7G)	13.0

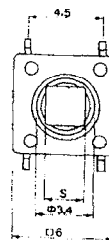
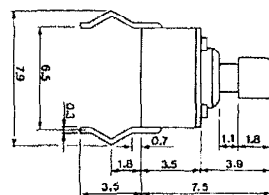
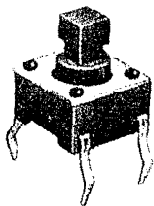
**MTS-1102P**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.25 \pm 0.1$  m/m
4. Operating Force :  $160 \pm 30$  gf
5. Contact Resistance :  $100\text{m} \Omega$  max
6. Life : 100,000 Cycles min

Model no.	Knob (L)
MTS-1102P	4.3
MTS-1102PA	5.0
MTS-1102PD	7.0
MTS-1102PE	8.0
MTS-1102PC	9.5

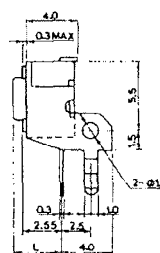
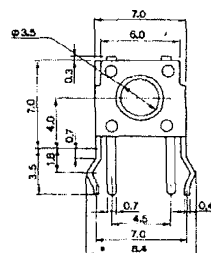
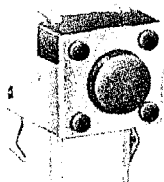
**MTS-1102T**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.25 \pm 0.1$  m/m
4. Operating Force :  $160 \pm 30$  gf
5. Contact Resistance :  $100\text{m} \Omega$  max
6. Life : 100,000 Cycles min

Model no.	Knob (L)
MTS-1102T	2.4
MTS-1102TA	2.8

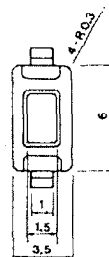
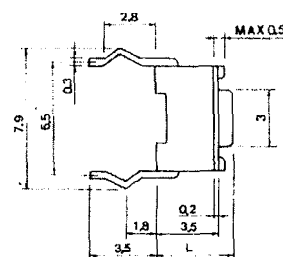
**MTS-1102V**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.25(+0.2, -0.1)$  m/m
4. Operating Force :  $160 \pm 30$  gf
5. Contact Resistance :  $100\text{m} \Omega$  max
6. Life : 100,000 Cycles min

Model no.	Knob (L)
MTS-1102V	3.15
MTS-1102VA	3.85
MTS-1102VD	5.85
MTS-1102VC	8.35

**MTS-1101W**

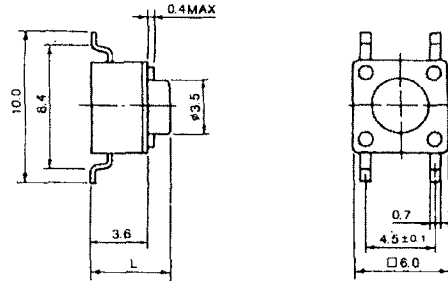
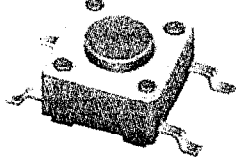


1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.25(+0.2, -0.1)$  m/m
4. Operating Force :  $180 \pm 30$  gf
5. Contact Resistance :  $100\text{m} \Omega$  max
6. Life : 50,000 Cycles min

Model no	Knob (L)	Color
MTS-1101	4.3	black,white
MTS-1101A	5.0	black,white

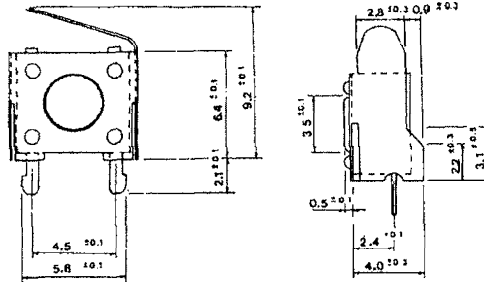
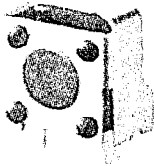
# MEC Tactile Switch

**MTS-1132**



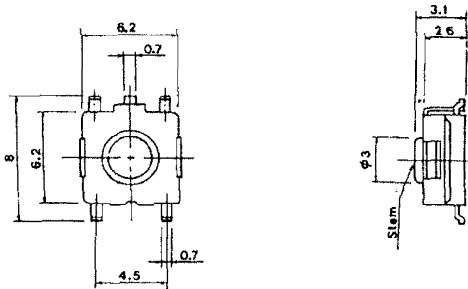
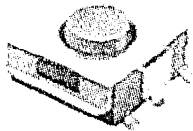
1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel : 0.25 (+0.2,-0.1)m/m
4. Operating Force : 180 ± 30gf
5. Contact Resistance : 100m Ω max
6. Life : 50,000 Cycles min

**MTS-1132V**



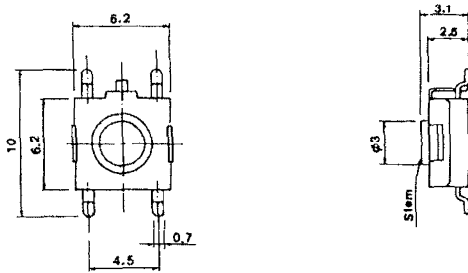
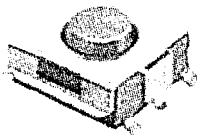
1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel : 0.25 ± 0.1m/m
4. Operating Force : 180 ± 30gf
5. Contact Resistance : 100m Ω max
6. Life : 200,000 Cycles min

**MTS-1152**



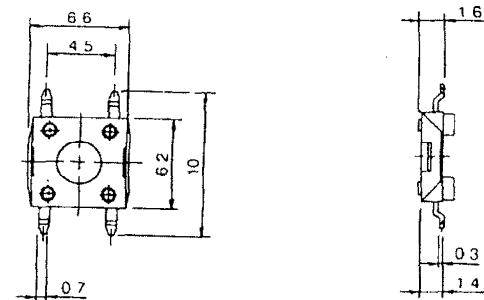
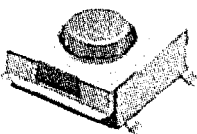
1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel : 0.25 ± 0.1m/m
4. Operating Force : 160 ± 30gf
5. Contact Resistance : 100m Ω max
6. Life : 100,000 Cycles min
7. Compact, low-profile surface-mounting type keyboard switches ideal for high-density mounting.
8. Permits re-flow soldering
9. Stem color : Green

**MTS-1152B**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel : 0.25 ± 0.1 m/m
4. Operating Force : 160 ± 30gf
5. Contact Resistance : 100m Ω max
6. Life : 100,000 Cycles min
7. Compact, low-profile surface-mounting type keyboard switches ideal for high-density mounting.
8. Permits re-flow soldering
9. Stem color : Black

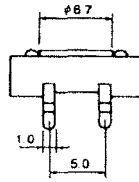
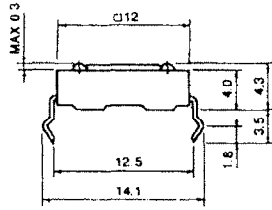
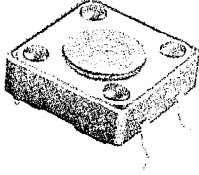
**MTS-1160**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel : 0.25 ± 0.1 m/m
4. Operating Force : 160 ± 30gf
5. Contact Resistance : 100m Ω max
6. Life : 100,000 Cycles min
7. Compact, low-profile surface-mounting type keyboard switches ideal for high-density mounting.
8. Permits re-flow soldering
9. Stem color : Red

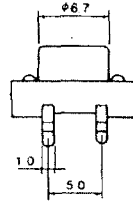
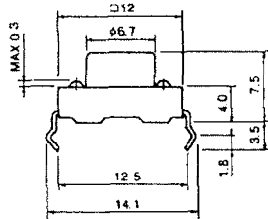
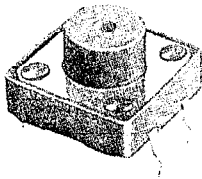
# MEC Tactile Switch

**MTS-1103**



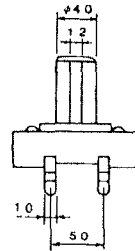
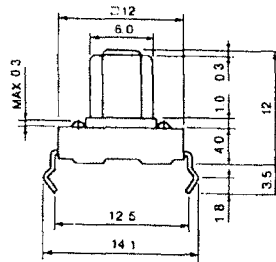
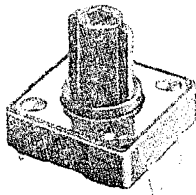
1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.3 \pm 0.15$ m/m
4. Operating Force :  $160 \pm 30$ gf
5. Contact Resistance :  $100\text{m } \Omega$  max
6. Life : 100,000 Cycles min

**MTS-1103B**



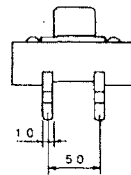
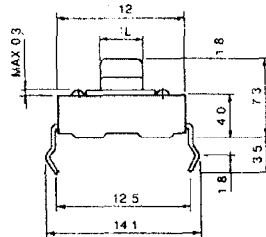
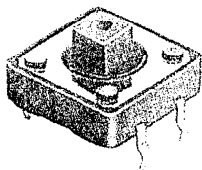
1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.3 \pm 0.15$ m/m
4. Operating Force :  $160 \pm 30$ gf
5. Contact Resistance :  $100\text{m } \Omega$  max
6. Life : 100,000 Cycles min

**MTS-1103C**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.3 \pm 0.15$ m/m
4. Operating Force :  $160 \pm 30$ gf
5. Contact Resistance :  $100\text{m } \Omega$  max
6. Life : 100,000 Cycles min

**MTS-1103D**



1. Contact : Mechanical Contact
2. Rating : DC 12V 50mA
3. Travel :  $0.3 \pm 0.15$  m/m
4. Operating Force :  $160 \pm 30$ gf
5. Contact Resistance :  $100\text{m } \Omega$  max
6. Life : 100,000 Cycles min