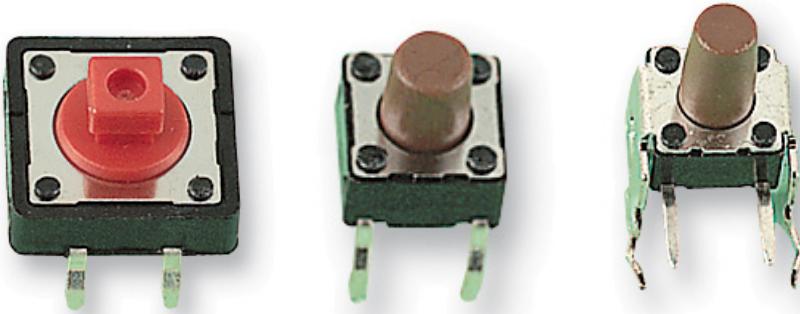


# MCDTS6/MCDTS2/KTSC2 Series

## Tact Switches - SPNO & Caps



### Features:

- Sharp click feel with a positive tactile feedback. Due to small movement distance (stroke), user experiences distinct sensation when the switch “clicks” into place.
- Ultraminiature and light weight structure suitable for high density mounting. Economic with high reliability.
- Insert moulding in the contact has a special treatment which prevents flux build-up during soldering and permits auto-dipping.
- Comprehensive range of SPNO tact switches.
- Select by overall height, body, actuator length, and operating force.

### Materials:

Cover	: Stainless steel.
Base	: Nylon thermoplastic. Colour: Black.
Stem	: Nylon thermoplastic. Colour: Black (100gf), Brown (160gf), Red (260gf).
Contact disc	: Phosphor bronze with silver cladding.
Terminal	: Brass with silver cladding.
Cap	: Thermoplastic ABS.

### Specifications

#### Mechanical

Operation force	: 160±50gf Brown (N) 260±50gf Red (R) 100±50gf Black (K) 350g Salone (S)
Stop strength	: Place the switch such that a vertical, static load of 3kgf shall be applied in the direction of the stem operation for a period of 15 seconds.
Stroke	: (12 x 12) 0.35±0.1mm (6 x 6) 0.25 +0.2mm/ -0.1mm
Operating temperature	: -25°C to +70°C.
Storage temperature	: -30°C to +80°C.
Vibration test	: MIL-STD-202F method 201A. Frequency : 10 - 55 -10Hz/1 minute. Directions : X, Y, Z three mutually perpendicular directions. Time : 2 hours each direction. High reliability.



# MCDTS6/MCDTS2/KTSC2 Series

## Tact Switches - SPNO & Caps



### Specifications:

#### Mechanical

Shock test : MIL-STD-202F method 213B.  
 Condition A.  
 Gravity : 50G (peak value), 11msec.  
 Direction and times : 6 sides and 3 times in each direction.  
 High reliability.

### Specifications

#### Electrical

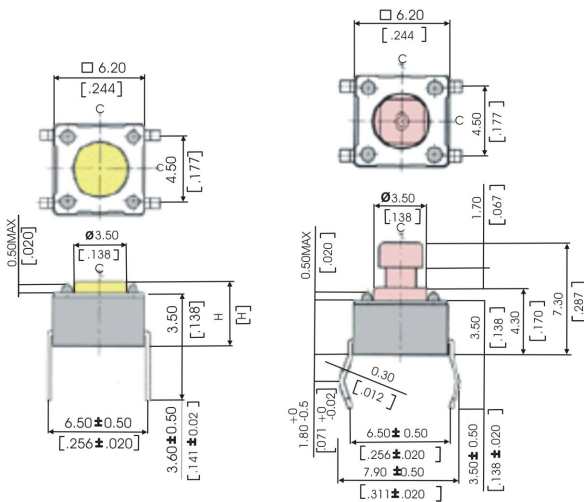
Electrical life : 260gf has 50,000 cycles  
 100gf, 160gf has 500,000 cycles.  
 Current rating : 50mA, 12V dc.  
 Contact resistance : 100mΩ maximum.  
 Insulation resistance : 10MΩ 500V dc.  
 Dielectric strength : 250V ac/1minute.  
 Wave solder : 260°C maximum 5s 1.6mm PCB.  
 Hand solder : 320°C 2s 30W iron  
 PCB Hole diameter : 1.0 ±0.05mm.

### Soldering Process

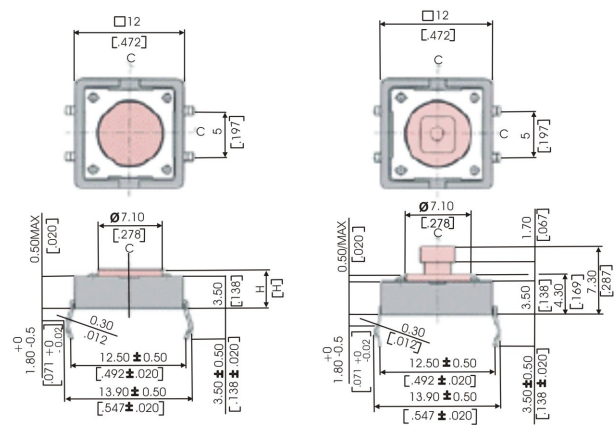
Wave soldering : Recommended solder temperature at 500°F (260°C) maximum 5 seconds subject to PCB thickness of 1.6mm.  
 Hand soldering : Use a soldering iron of 30 watts, controlled at 608°F (320°C) approximately for 2 seconds while applying solder.

### Dimensions:

MCDTS-6



MCDTS-2



Dimensions : Millimetres (Unless Specified)

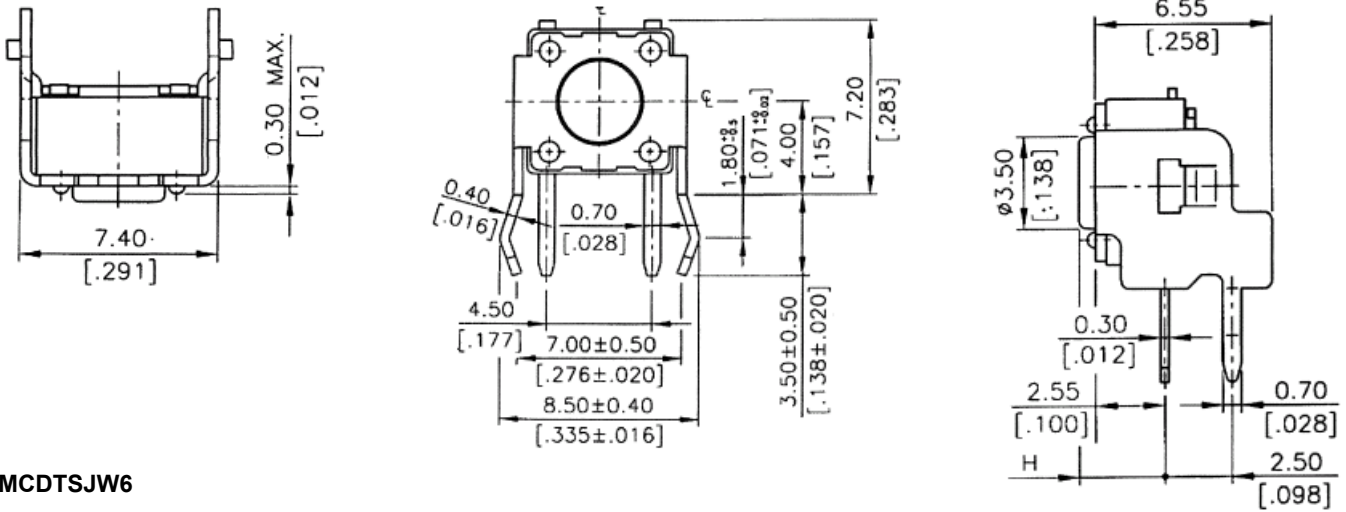


# MCDTS6/MCDTS2/KTSC2 Series

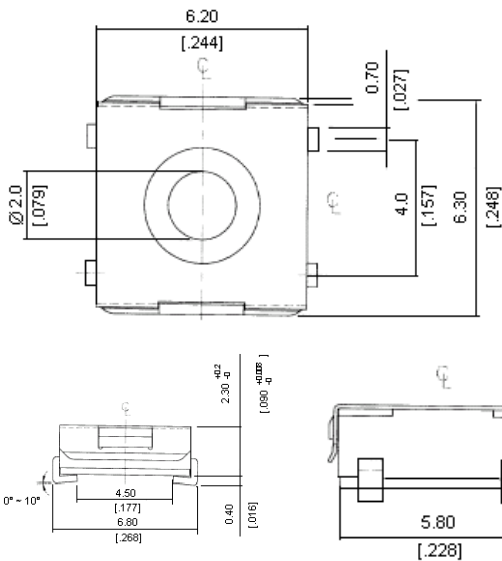
## Tact Switches - SPNO & Caps



### MCDTSA6



### MCDTSJW6



Dimensions : Millimetres (Unless Specified)



# MCDTS6/MCDTS2/KTSC2 Series

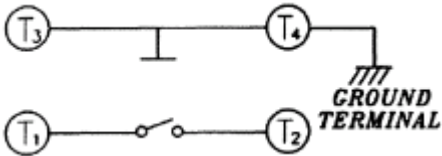
## Tact Switches - SPNO & Caps



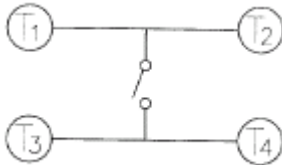
### CIRCUIT MCDTS-2 and MCDTS-6



### MCDTSA6

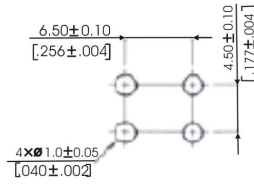


### MCDTSJW6

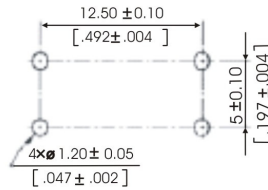


### P.C.B. LAYOUT

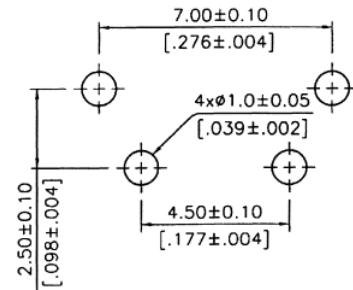
#### MCDTS-6



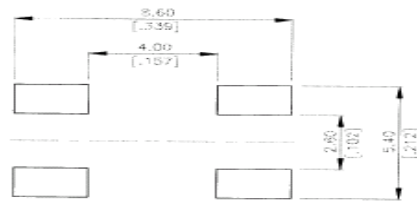
#### MCDTS-2



#### MCDTSA6



#### MCDTSJW6



Dimensions : Millimetres (Inches)

### MCDTS2 Series (12mm x 12mm)

Actuator Style/Operating Force (gf)	PCB Drilling	Part Number
7.3(SQ) x 3.8/160	12.5 x 5.0	MCDTS2-4N
4.3/160		MCDTS2-1N
7.3(SQ) x 3.8/260		MCDTS2-4R
4.3/260		MCDTS2-1R

Dimensions : Millimetres (Unless Specified)

### Specification Table

Termination Type	Part Number
J Type S.M.T.	MCDTSJW6-6S
	MCDTSJW6-8S



# MCDTS6/MCDTS2/KTSC2 Series



## Tact Switches - SPNO & Caps

### MCDTS6 Series (6mm x 6mm)

Overall Height/Operating Force (gf)	PCB Drilling	Part Number
4.3/100	6.5 x 4.5	MCDTS6-1K
4.3/160		MCDTS6-1N
4.3/260		MCDTS6-1R
5.0/160		MCDTS6-2N
5.0/260		MCDTS6-2R
7.0/100		MCDTS6-3K
7.0/160		MCDTS6-3N
7.0/260		MCDTS6-3R
9.5/100		MCDTS6-5K
9.5/160		MCDTS6-5N
9.5/260		MCDTS6-5R
8.35/100		-
8.35/160	-	MCDTSA6-5N
8.35/260	-	MCDTSA6-5R
3.85/100	-	MCDTSA6-2K
3.85/160	-	MCDTSA6-2N
3.85/260	-	MCDTSA6-2R

Dimensions : Millimetres (Unless Specified)

### MCDTSHW6



#### Features:

- High reliability, long operating life
- MCDTSHW6 Series (6mm x 6mm) Washable - PCB drilling 6.5mm x 4.0mm.

#### Specifications:

##### Electrical:

Current rating	: 50mA.
Voltage rating	: 12V dc minimum.
Contact resistance	: 100mΩ maximum.
Insulation resistance	: 10MΩ 500V dc.
Dielectric strength	: 250V ac/1 minute.
Stop strength	: 3kgf 15 Seconds.
Wave solder	: 260°C maximum 5s 1.6mm PCB.
Electrical life	: 100,000 operations minimum.
Hand solder	: 320°C 2S 30W iron.
PCB hole diameter	: 1.0 ±0.05mm.
Operating temperature	: -25°C to +70°C.

#### Specification Table

Overall Height/Operating Force (gf)	Part Number
3.8/160	MCDTSHW6-9N

Dimensions : Millimetres (Unless Specified)



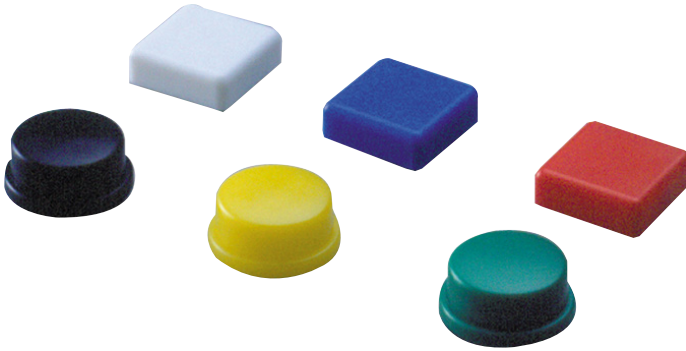
# MCDTS6/MCDTS2/KTSC2 Series

## Tact Switches - SPNO & Caps



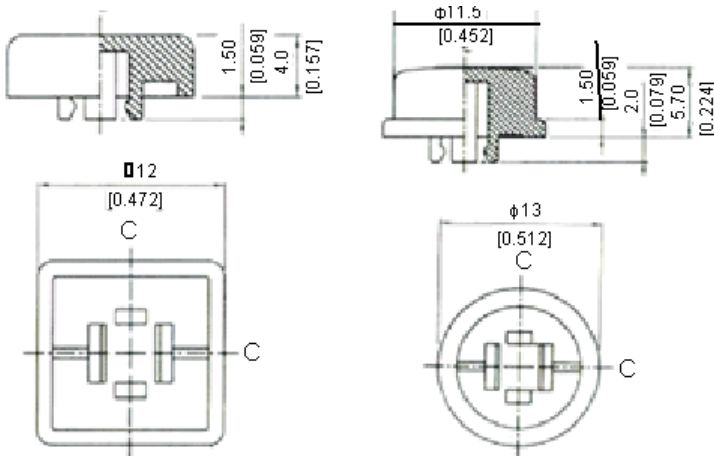
### Features:

- Round and square caps for use with 12 x 12 MCDTS2 tact switches.



### Dimensions:

#### KTSC-2



General Tolerance :  $\pm 0.2\text{mm}$  ( $\pm 0.008''$ )

### Specification Table

Caps	Colour	Part Number
Square	Salmon	KTSC-21S
Square	Green	KTSC-21G
Square	Yellow	KTSC-21Y
Square	Blue	KTSC-21B
Square	Red	KTSC-21R
Square	Ivory	KTSC-21I
Square	Black	KTSC-21K
Round	Salmon	KTSC-22S
Round	Green	KTSC-22G
Round	Yellow	KTSC-22Y
Round	Blue	KTSC-22B
Round	Red	KTSC-22R
Round	Ivory	KTSC-22I
Round	Black	KTSC-22K

Order multiple = 5



# MCDTS6/MCDTS2/KTSC2 Series

## Tact Switches - SPNO & Caps



### Notes:

### International Sales Offices:

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