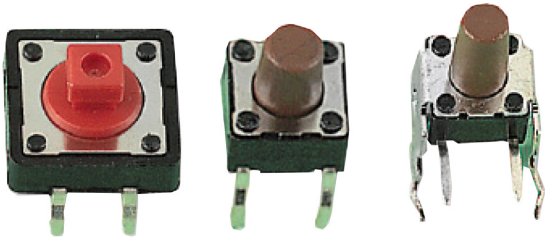


Tact Switches - SPNO & Caps

MCDTS Series

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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

Specifications

Materials

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

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 × 12) 0.35 ±0.1mm (6 × 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
Shock Test	: MIL-STD-202F method 213B Condition A Gravity : 50 G (peak value), 11 m seconds Direction and Times : 6 sides and 3 times in each direction High reliability

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Tact Switches - SPNO & Caps

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Electrical

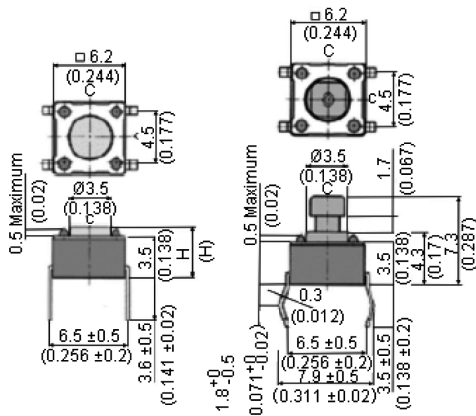
Electrical Life	: 260 gf has 50,000 cycles 100 gf, 160 gf has 500,000 cycles
Current Rating	: 50mA, 12V DC
Contact Resistance	: 100m maximum
Insulation Resistance	: 10M 500V DC
Dielectric Strength	: 250V AC / 1 minute
Wave Solder	: 260°C maximum 5 seconds 1.6mm PCB
Hand Solder	: 320°C 2 seconds 30 W iron
PCB Hole Diameter	: 1 ±0.05mm

Soldering Process

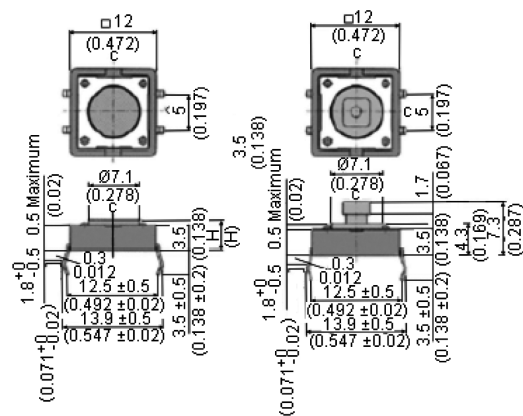
Wave Soldering	: Recommended solder temperature at 500°F (260°C) maximum 5 seconds subject to PCB thickness of 1.6mm
Hand Soldering	: Use a soldering iron of 30 watts, controlled at 08°F (320°C) approximately for 2 seconds while applying solder

Diagrams

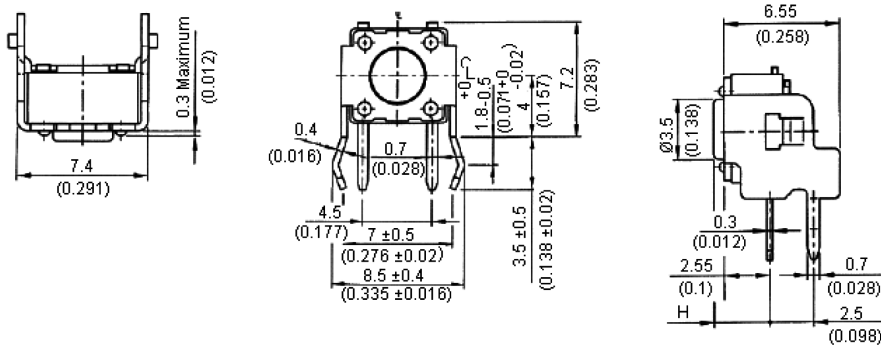
MCDTS-6



MCDTS-6



MCDTSA6



Dimensions : Millimetres (Inches)

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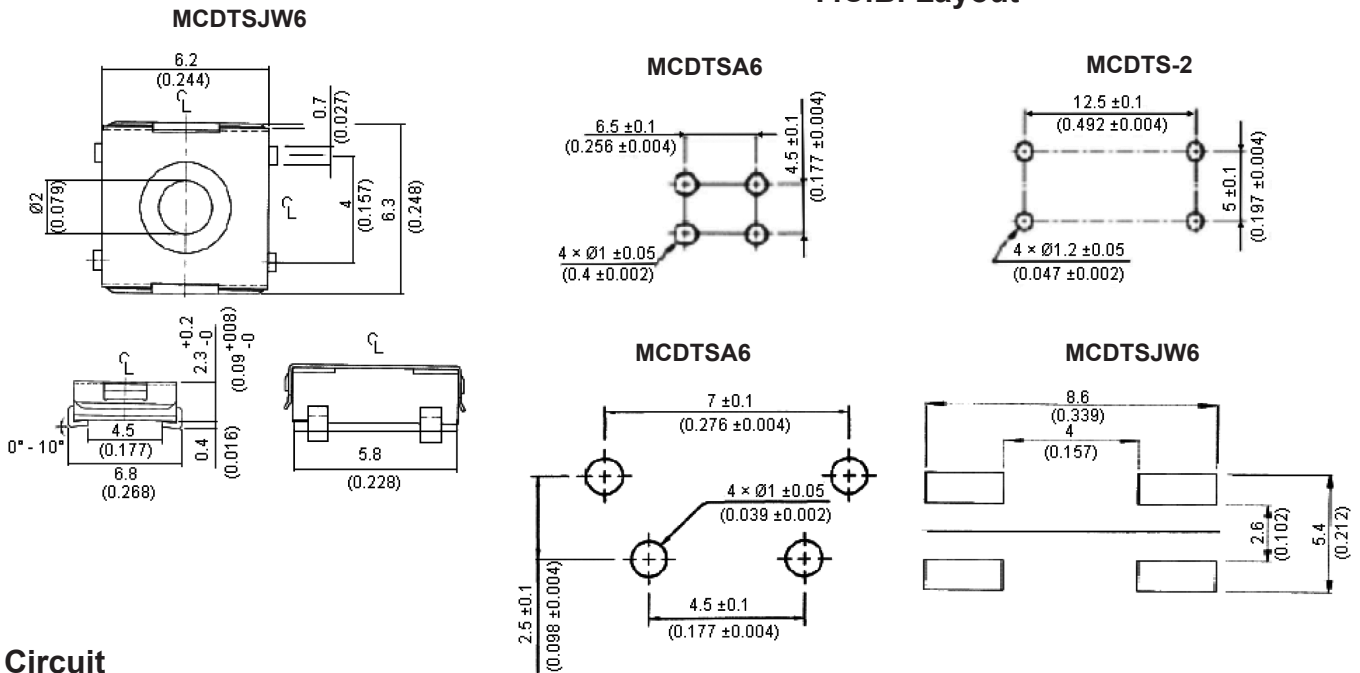
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MCDTS Series

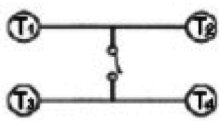


P.C.B. Layout

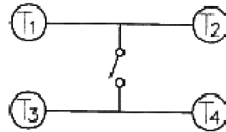


Circuit

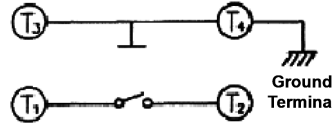
MCDTS-2 and MCDTS-6



MCDTSJW6



MCDTSA6



Specification Table

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

MCDTS2 Series (12mm × 12mm)

Actuator Style / Operating Force (gf)	PCB Drilling	Part Number
4.3 / 160	12.5 × 5	MCDTS2-1N
7.3 (SQ) × 3.8 / 260		MCDTS2-4R
4.3 / 260		MCDTS2-1R

MCDTS6 Series (6mm × 6mm)

Overall Height / Operating Force (gf)	PCB Drilling	Part Number
4.3 / 100	6.5 × 4.5	MCDTS6-1K
4.3 / 160		MCDTS6-1N
4.3 / 260		MCDTS6-1R

Dimensions : Millimetres (Inches)

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Overall Height / Operating Force (gf)	PCB Drilling	Part Number
5 / 160	6.5 × 4.5	MCDTS6-2N
5 / 260		MCDTS6-2R
7 / 100		MCDTS6-3K
7 / 160		MCDTS6-3N
7 / 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

For Part Number - MCDTSHW6



Features

- High reliability, long operating life
- MCDTSHW6 Series (6mm × 6mm) Washable - PCB drilling 6.5mm × 4mm

Specifications

Electrical

Current Rating	: 50mA
Minimum Voltage Rating	: 12V DC
Maximum Contact Resistance	: 100m
Insulation Resistance	: 10M 500V DC
Dielectric Strength	: 250V AC / 1 minute
Stop Strength	: 3 kgf 15 Seconds
Wave Solder	: 260°C maximum 5s 1.6mm PCB
Electrical Life	: 100,000 operations minimum
Hand Solder	: 320°C 2 S 30 W iron
PCB Hole Diameter	: 1 ±0.05mm
Operating Temperature	: -25°C to +70°C

Specifications Table

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

Dimensions : Millimetres

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