

MJTP SERIES 6MM & 4MM SMD TACT SWITCHES

FEATURES

- Numerous single pole-single throw momentary configurations.
- Excellent tactile feed-back (Snap dome).
- Ultra-compact size.
- Long operating life for high reliability.
- Molded-in terminals minimize wicking of flux or solder.

MATERIALS

Gold plating available on contacts & terminals
- consult factory.

Case: High temperature 4/6 nylon.
Actuator: High temperature 4/6 nylon.
Cover/Bracket: PET film, tin plated brass or stainless steel.
Terminals: Silver plated brass.
Shorting Contact: Phosphor bronze or stainless steel with silver plating.
L.E.D. rating: Forward voltage- 2.1 V (3.0 V Max.). Cont. fwd. current 20mA max. @ 25°C.

GENERAL SPECIFICATIONS

ELECTRICALS

Contact rating: 50 mA @ 12 VDC
Insulation resistance: 100 megohms min. (100 VDC)
Dielectric withstanding voltage: 250 VAC for 1 minute
Contact resistance: 100 milliohms max. @ 5 VDC, 10 mA
Electrical life: 100,000 cycles min. (1,000,000 cycles available - consult factory)
Contact bounce: less than 10 msec.

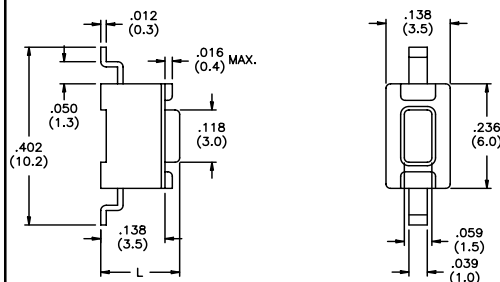
MECHANICALS, THERMALS, ENVIRONMENTALS

Plunger travel: .010" + .008", - .004" (0,25 +0,2, -0,1 mm)
Actuation force: 160 grams ±30 grams
Operating temperature range: -20°C to +70°C
Storage temperature range: -30°C to +80°C for 96 hours
Shock resistance: 30G per method 213, MIL-STD-202
Vibration resistance: passes method 201, MIL-STD-202

SOLDERING (note - non-washable except for models indicated as 'process compatible').

IR reflow soldering: 240°C max. for 20 seconds max.
Wave soldering: 255°C max. for 5 seconds max.
Hand soldering: 320°C max. for 3.5 seconds max. (40 watt iron max.)

US # MJTP1106S

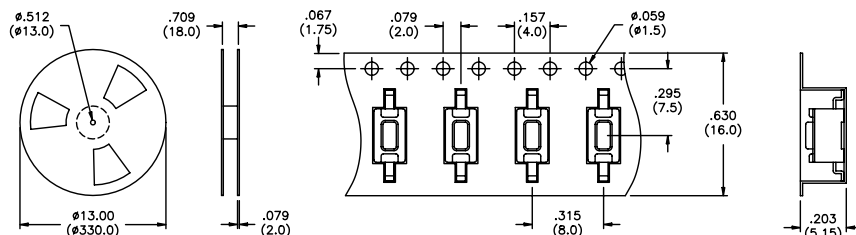


US Model No.	Dim. L (in./mm)
MJTP1106S	.169 (4,3)
MJTP1106SA	.197 (5,0)

Bulk packaged.

US # MJTP1106SATR

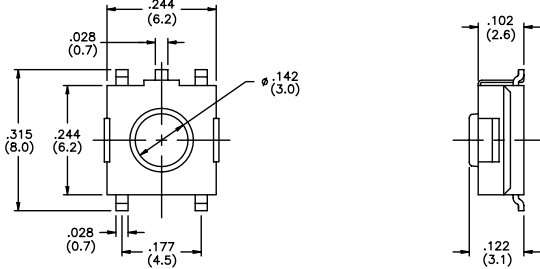
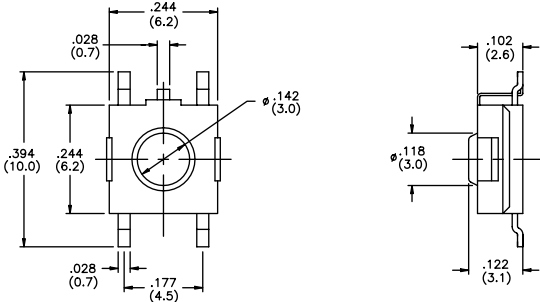
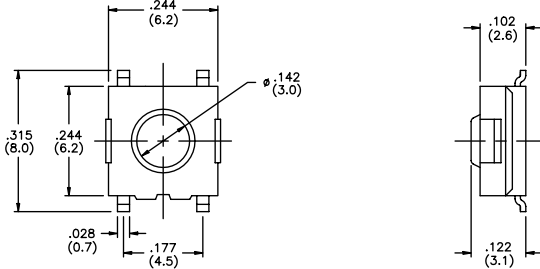
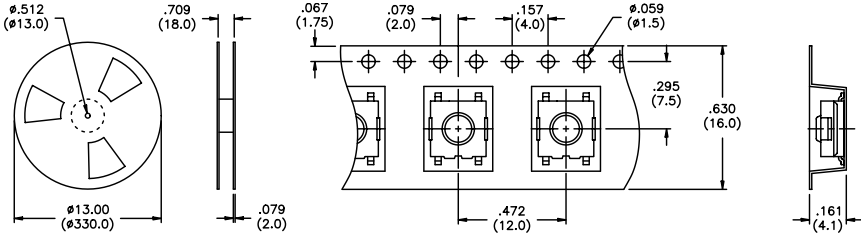
Same as above, except supplied on tape and reel as shown.



Tape & reel packaging - quantity 1800 per reel.

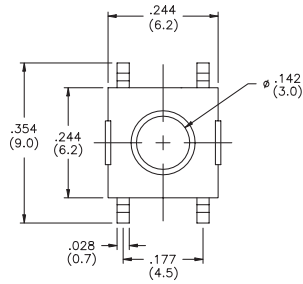
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

M

US # MJTP1122 Grounding 	 Bulk packaged.
US # MJTP1122A Grounding 	 Bulk packaged.
US # MJTP1122B EU # PHAP3374 	 Bulk packaged.
US # MJTP1122TR, MJTP1122BTR & MJTP3374TR EU # PHAP3374R Same as above, except supplied on tape & reel as shown. Note - MJTP1122A not available on tape & reel.	 Tape & reel packaging - quantity 1500 per reel.

M

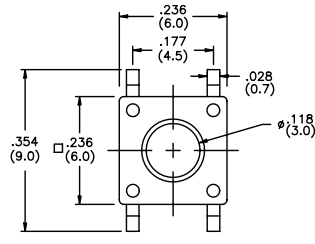
US # MJTP1125B



Bulk packaged.

New!

US # MJTP1138
EU # PHAP3368

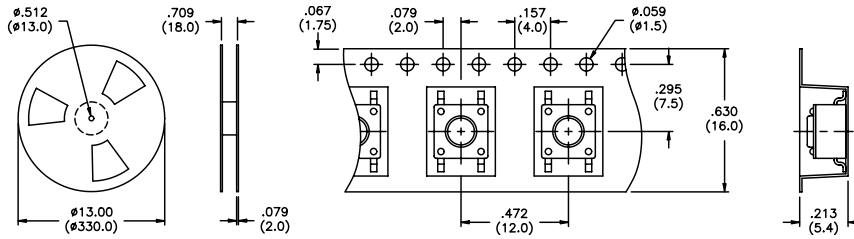


US Model No.	Dim. L (in./mm)	EU Model No.
MJTP1138	.170 (4,3)	PHAP3368
MJTP1138A	.197 (5,0)	PHAP3368A
MJTP1138B	.374 (9,5)	PHAP3368B
MJTP1138C	.315 (8,0)	PHAP3368C
MJTP1138D	.512 (13,0)	PHAP3368D
MJTP1138E	.287 (7,3)	PHAP3368E
MJTP1138F	.335 (8,5)	PHAP3368F
MJTP1138G	.275 (7,0)	N/A

Bulk packaged. Tubes available for some models consult factory.

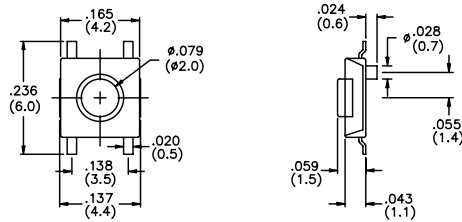
**US # MJTP1138TR &
MJTP1138ATR**

Same as above
except supplied
on tape & reel
as shown.



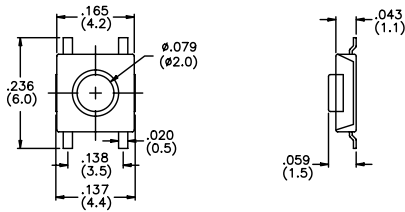
Tape & reel packaging - quantity 1200 per reel.

**US # MJTP1140
EU # PHAP3390**
4mm x 4mm



Bulk packaged.

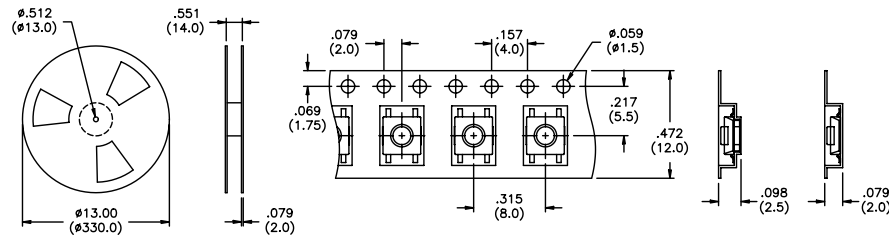
**US # MJTP1140A
EU # PHAP3391**



Bulk packaged.

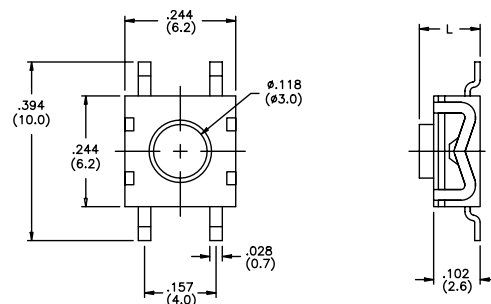
**US # MJTP1140TR &
MJTP1140ATR
EU # PHAP3390R &
PHAP3391R**

Same as above,
except supplied
on tape & reel
as shown.



Tape & reel packaging - quantity 3400 per reel.

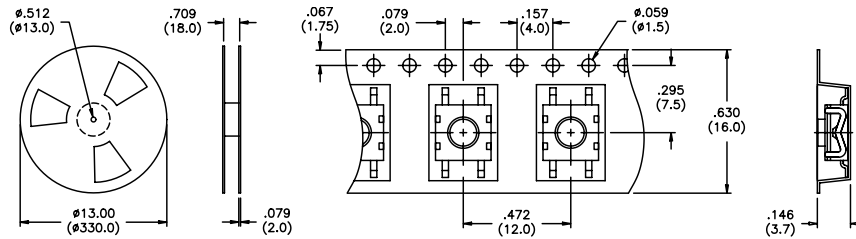
**US # MJTP1162
EU # PHAP3371**



US Model No.	Dim. L (in./mm)	EU Model No.
MJTP1162	.102 (2,6)	PHAP3371
MJTP1162A	.134 (3,4)	PHAP3371A

Bulk packaged.

US # MJTP1162TR & MJTP1162ATR
EU # PHAP3371R & PHAP3371AR
 Same as above except supplied on tape & reel as shown.

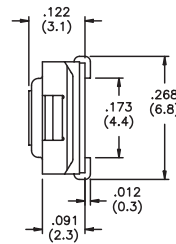
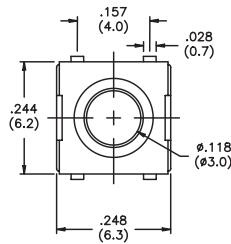


Tape & reel packaging - quantity 1600 per reel.

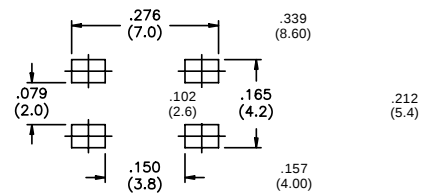
US # MJTPSJW66N
 Process compatible



New!



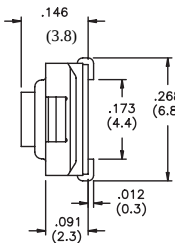
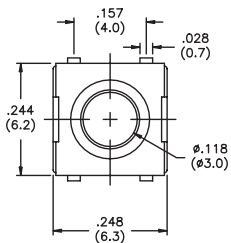
Bulk packaged.



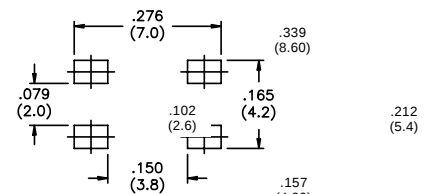
US # MJTPSJW69N
 Process compatible



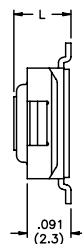
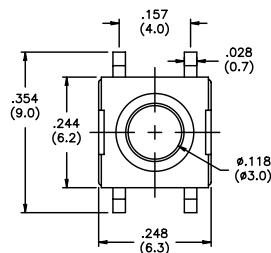
New!



Bulk packaged.



US # MJTPSMW
 Process compatible

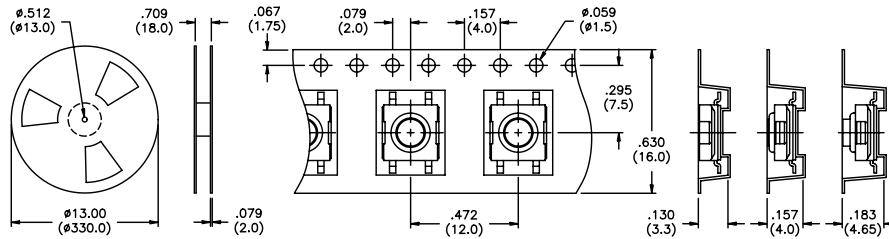


US Model No.	Dim. L (in./mm)
MJTPSMW	.122 (3,1)
MJTPSMWA	.091 (2,3)
MJTPSMWB	.146 (3,8)

Bulk packaged.

**US # MJTPSMWTR &
MJTPSMWATR,
MJTPSMWBTR**

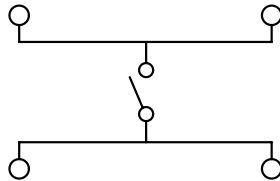
Same as above
except supplied
on tape & reel
as shown.



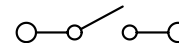
Tape & reel packaging - quantity 'MWTR' & 'MWATR' 2000 per reel, 'MWBTR' 1900 per reel.

SCHEMATICS

MJTP1122
MJTP1125
MJTP1137
MJTP1138
MJTP1140
MJTP1162
MJTPSJW66N
MJTPSJW69N
MJTPSMW

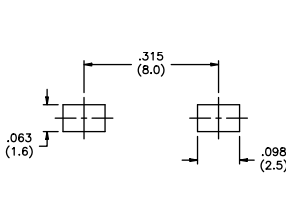


MJTP1106

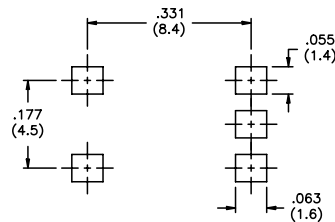


PRINTED CIRCUIT BOARD LAYOUTS

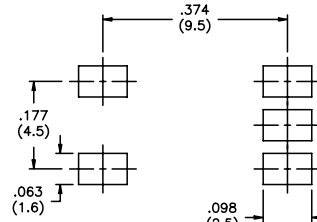
Layout tolerances; Linear: $\pm .004"$ ($\pm 0.1\text{MM}$) Holes: $\pm .002"$ ($\pm 0.05\text{MM}$) Pads: $\pm .008"$ ($\pm 0.2\text{MM}$)



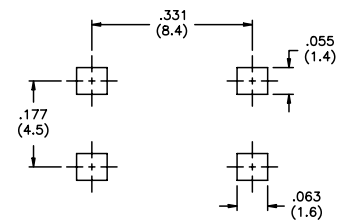
MJTP1106S



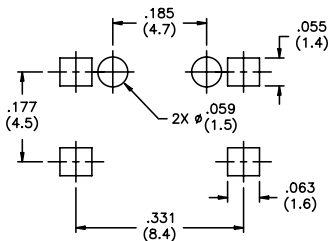
MJTP1122



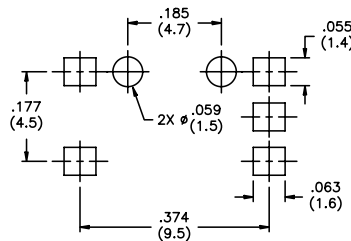
MJTP1122A



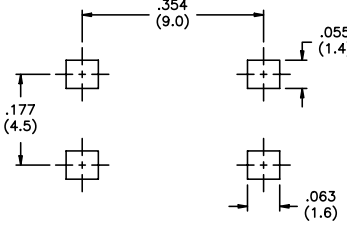
MJTP1122B



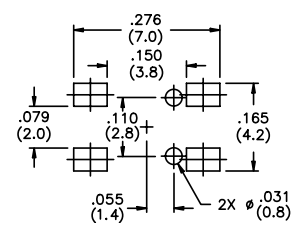
MJTP1137



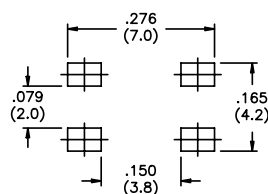
MJTP1137E



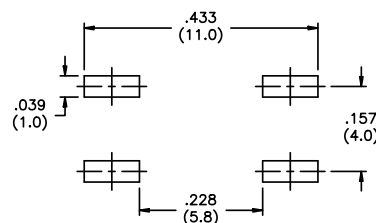
MJTP1138



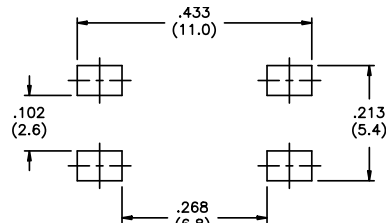
MJTP1140



MJTP1140A



MJTP1162



MJTPSMW