# MJTP SERIES 6MM THRU-HOLE MTG. 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**

Case: Thermoplastic, color black. UL94HB Standard.

**Thermoplastic** 

Gold plating avail- Actuator:

Cover/Bracket:

ket: PET film, tin plated brass or stainless steel.

able on contacts & 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**

- consult factory.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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. (except models MJTP1243 & 1250- 50,000 cycles)

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 'process compatible' below).

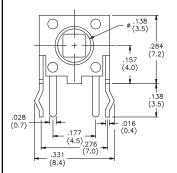
IR reflow soldering: 240°C max. for 20 seconds max. Wave soldering: 255°C max. for 5 seconds max.

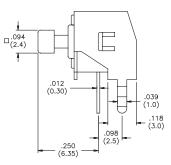
Hand soldering: 320°C max. for 3.5 seconds max. (40 watt iron max.)

## **MJTP1105T**

Right angle, grounding





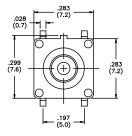


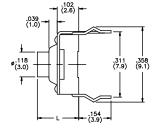
Caps available see end of section. Bulk packaged.

## US # MJTP1109 EU # PHAP3350

Process compatible, grounding





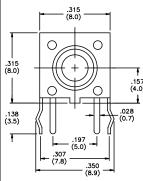


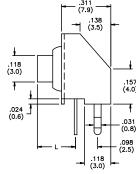
US Model	Dim.	EU Model
No.	L (In./mm)	No.
MJTP1109	.197 (5.0)	PHAP3350
MJTP1109A	.354 (9.0)	PHAP3350A
MJTP1109B	.512 (13.0)	PHAP3350B

Bulk packaged.

#### **US # MJTP1117** EU#PHAP3363 .057 (1.45) .232 (5.9) Right angle, grounding .059 (1.5) Bulk packaged. New! **US # MJTP1119** .102 (2.6) **EU # PHAP3351** .028 (0.7) Process compatible .039 **US Model** Dim. **EU Model** L (in./mm) No. **MJTP1119** .197 (5.0) **PHAP3351** ø .118 (3.0) .283 (7.2) .311 .358 (7.9) (9.1) **MJTP1119A PHAP3351A** .354 (9.0) **MJTP1119B** .512 (13.0) **PHAP3351B** Bulk packaged. .197 (5.0) New! .311 (7.9) **US # MJTP1129 EU # PHAP1152** -1 .138 (3.5) Right angle, grounding, .118 (3.0) process .315 (8.0) compatible







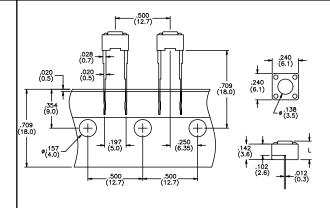
US Model	Dim.	EU Model
No.	L (in./mm)	No.
MJTP1129	.171 (4.35)	PHAP3352
<b>MJTP1129A</b>	.329 (8.35)	<b>PHAP3352A</b>
MJTP1129B	.486 (12.35)	PHAP3352B

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Bulk packaged.

## US # MJTP1141 EU # PHAP3307 Long terminals

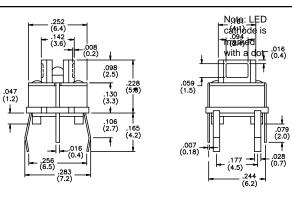




US Model	Dim.	EU Model
No.	L (in./mm)	No.
MJTP1141	.169 (4.3)	PHAP3307
MJTP1141A	.197 (5.0)	PHAP3307A

Packaged on tape. Note: other models available with this tape packaging - consult factory.



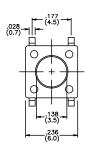


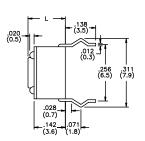
US Model	L.E.D.	EU Model
No.	Color	No.
MJTP1193	No L.E.D.	PHAP3308
MJTP11936	Red	PHAP3308R
MJTP11935	Yellow	PHAP3308Y
MJTP11933	Green	PHAP3308G

Caps available with lens see end of section. Bulk packaged.

## **US # MJTP1230 EU # PHAP3301**





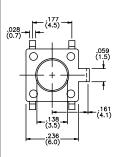


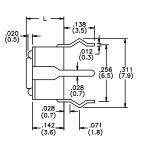
US Model	Dim.	EU Model
No.	L (in./mm)	No.
MJTP1230	.170 (4,3)	PHAP3301
MJTP1230A	.197 (5,0)	<b>PHAP3301A</b>
<b>MJTP1230B</b>	.374 (9,5)	<b>PHAP3301B</b>
<b>MJTP1230C</b>	.315 (8,0)	<b>PHAP3301C</b>
MJTP1230D	.512 (13,0)	PHAP3301D
MJTP1230E	.287 (7,3)	<b>PHAP3301E</b>
MJTP1230F	.335 (8,5)	PHAP3301F
<b>MJTP1230G</b>	.275 (7,0)	N/A

Bulk packaged.

## **US # MJTP1232 EU # PHAP3302** Grounding





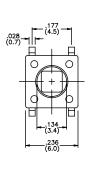


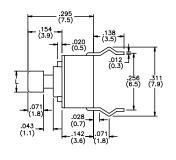
US Model	Dim.	EU Model
No.	L (in./mm)	No.
MJTP1232	.170 (4,3)	PHAP3302
MJTP1232A	.197 (5,0)	PHAP3302A
MJTP1232B	.374 (9,5)	PHAP3302B
MJTP1232C	.315 (8,0)	<b>PHAP3302C</b>
MJTP1232D	.512 (13,0)	PHAP3302D
MJTP1232E	.287 (7,3)	PHAP3302E
MJTP1232F	.335 (8,5)	PHAP3302F
<b>MJTP1232G</b>	.275 (7,0)	PHAP3302G

Bulk packaged.

## **US # MJTP1234 EU # PHAP3303**





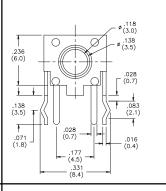


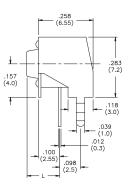
US Model	Dim.	EU Model
No.	L (in./mm)	No.
MJTP1234	.094 (2,4)	PHAP3303
MJTP1234A	.110 (2,8)	PHAP3303A

Caps available see end of section. Bulk packaged.

## US # MJTP1236 EU # PHAP3305 Right angle, grounding





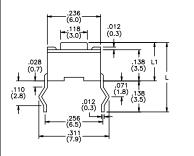


US Model	Dim.	EU Model
No.	L (in./mm)	No.
MJTP1236	.124 (3,1)	PHAP3305
<b>MJTP1236A</b>	.152 (3,9)	<b>PHAP3305A</b>
<b>MJTP1236B</b>	.329 (8,4)	PHAP3305B
<b>MJTP1236C</b>	.270 (6,9)	<b>PHAP3305C</b>
MJTP1236D	.466 (11,9)	PHAP3305D
<b>MJTP1236E</b>	.244 (6,2)	<b>PHAP3305E</b>
MJTP1236F	.289 (7,3)	N/A
<b>MJTP1236G</b>	.230 (5,8)	N/A
	Bulk packag	ied.

# US # MJTP1243 & MJTP1250







US # Model	Dim.	Dim.	
No.	<b>L1</b> (in./mm)	L (in./mm)	
MJTP1243	.169 (4,3)	.307 (7,8)	
MJTP1250	.197 (5,0)	.335 (8,5)	

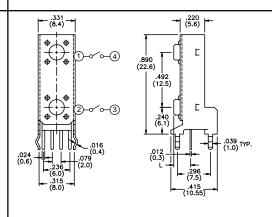
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Bulk packaged.

## US # MJTP2205 EU # PHAP3306 2 switch vertical







US Model	Dim.		EU Model
No.	L (in	./mm)	No.
MJTP2205	.124	(3,15)	PHAP3306
MJTP2205A	.152	(3,85)	<b>PHAP3306A</b>
MJTP2205B	.329	(8,35)	PHAP3306B
MJTP2205C	.270	(6,85)	PHAP3306C
MJTP2205D	.466	(11,85)	PHAP3306D
MJTP2205E	.242	(6,15)	PHAP3306E

Bulk packaged.

