

# MJTP SERIES - 12 MM SQUARE TACT SWITCHES

## FEATURES

- SPST momentary action.
- Excellent tactile feed-back (Snap dome).
- Long operating life for high reliability.
- Molded-in terminals minimize wicking of flux or solder.
- Flush, round, keyed or square actuator.
- Thru-hole mounting.

## MATERIALS

Case: PBT, color black.  
 Actuator: P.O.M. thermoplastic, color black.  
 Cover: Stainless steel.  
 Terminals: Silver plated brass.  
 Shorting Contact: Silver plated phosphor bronze.



**MJTP1212      MJTP1212A      MJTP1212B      MJTP1212C**

## GENERAL SPECIFICATIONS

### ELECTRICALS

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| Contact rating:                  | 50 mA @ 12 VDC                                                     |
| Insulation resistance:           | 100 megohms min. (500 VDC)                                         |
| Dielectric withstanding voltage: | 250 VAC for 1 minute                                               |
| Contact resistance:              | 100 milliohms max.                                                 |
| Electrical Life:                 | 100,000 cycles min. (1,000,000 cycles available - consult factory) |
| Contact bounce:                  | less than 5 msec.                                                  |

### MECHANICALS, THERMALS, ENVIRONMENTALS

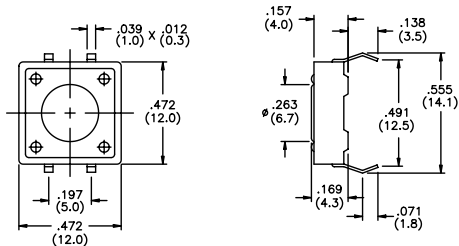
|                              |                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| Plunger travel:              | .012" ± .006" (0.30 ± 0.15 mm)                                                                            |
| Actuation force:             | 160 grams ± 50 grams (.35 lbs.)                                                                           |
| Operating temperature range: | -20°C to +70°C                                                                                            |
| Storage temperature range:   | -30°C to +80°C for 96 hours                                                                               |
| Shock resistance:            | 30G (peak value) for 11 millise. per Method 213B, MIL-STD-202F (3 times each on 6 sides).                 |
| Vibration resistance:        | 10-55-10 Hz. for 1 minute in X, Y and Z planes per Method 201A, MIL-STD-202F (2 hours in each direction). |

### SOLDERING

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| Wave soldering:  | 260°C max. for 5 seconds max..                              |
| Hand soldering:  | 30 watt iron max. controlled at 320°C for approx. 2 seconds |
| Solvent washing: | Non-washable.                                               |

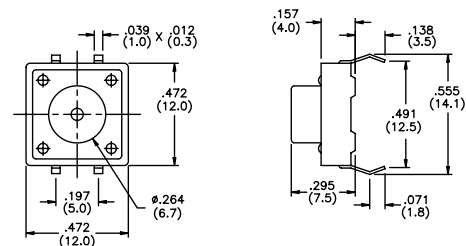
### US # MJTP1212    EU # PHAP3320

Flush actuator



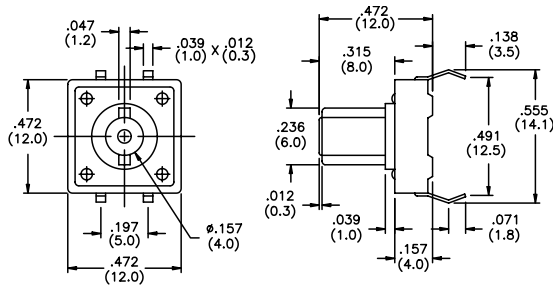
### US # MJTP1212A    EU # PHAP3320A

Round actuator



**US # MJTP1212B EU # PHAP3320B**

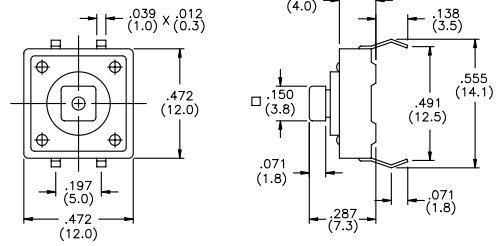
Round keyed actuator



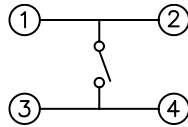
**US # MJTP1212C EU # PHAP3321**

Square actuator

Caps available - see below

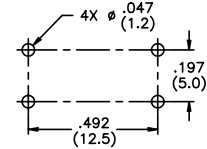


**SCHEMATIC**



**PRINTED CIRCUIT BOARD LAYOUT**

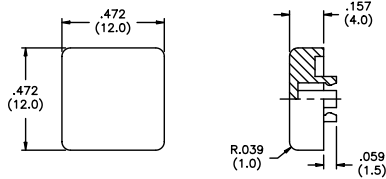
Layout Tolerances;  
Linear:  $\pm .004"$  ( $\pm 0,1\text{mm}$ )  
Holes:  $\pm .002"$  ( $\pm 0,05\text{mm}$ )



**CAPS (for MJTP1212C only)**

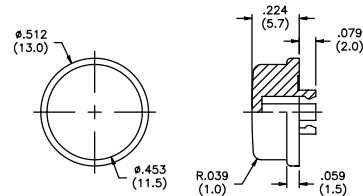
**US # MJ121 EU # U5540**

Square cap



**US # MJ122 EU # U5550**

Round cap



Note - add digit from table to cap part numbers above for color.  
Example - **MJ1212** indicates square black cap.

| No.      | Color  |
|----------|--------|
| <b>1</b> | blue   |
| <b>2</b> | black  |
| <b>3</b> | green  |
| <b>5</b> | yellow |
| <b>6</b> | red    |
| <b>7</b> | ivory  |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[MJTP1212C](#) [MJTP1212B](#) [MJTP1212](#) [MJTP1212A](#)