



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Features/Benefits

- Compact design
- Short stroke to latch
- Wide variety of actuator heights
- Adapted for medium power applications
- RoHS compliant and compatible

## Typical Applications

- Automotive (air conditioning, lighting)
- Industrial
- Control panel



## Construction

FUNCTION: Momentary, Push-Push  
 CONTACT ARRANGEMENT:  
 PVA1: 2 make contacts (DPST)  
 PVA2: 2 change over contacts (DPDT)  
 SWITCHING MODE: Non-shorting  
 TERMINALS: PC pins<sup>1</sup>

## Mechanical

TOTAL TRAVEL / LATCHING TRAVEL:  
 OA: 2,4 mm  
 EE: 2,4 / 1,5 mm  
 OPERATING FORCE: 1,2N; 1,7N; 2,2N; 3,5N

## Process

SOLDERABILITY:  
 Wave soldering, compatible with lead free soldering profile  
 Hand soldering, 350°C for 3 seconds

**Note:** Specifications listed above are for switches with standard options.  
 For information on specific and custom switches, please contact technical support using the "Ask a Specialist" option on the PVA product web page.<sup>v</sup>

## Electrical

SWITCHING POWER MAX.: 3 W DC  
 SWITCHING VOLTAGE MAX.: 32 V DC  
 SWITCHING CURRENT MAX.: 100 mA DC\*  
 DIELECTRIC STRENGTH (50 Hz / 1 min):  
 1000 V between open contacts, PVA2: 750 V  
 OPERATING LIFE:  
 OA (momentary):  $\geq 1 \times 10^5$  operations  
 EE (push-push):  $\geq 1 \times 10^5$  operations  
 CONTACT RESISTANCE: Initial  $\leq 100 \text{ m}\Omega$   
 After life: 150  $\text{m}\Omega$   
 INSULATION RESISTANCE:  $\geq 10^{10} \Omega$   
 BOUNCE TIME:  $\leq 3 \text{ ms}$

## Environmental

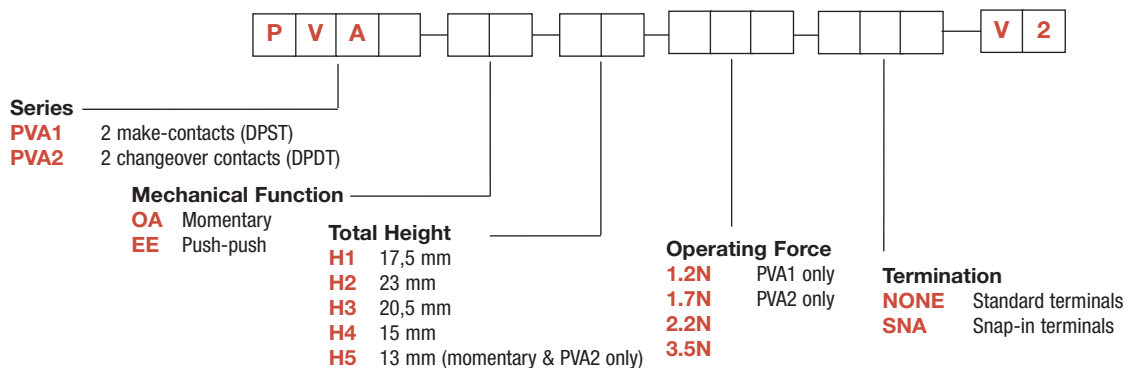
OPERATING TEMPERATURE: -40°C to 85°C.<sup>2</sup>

- 1) "Snap-in" contacts on request, Version SNA with pins bent inside (standard)
- 2) With button +70°C

## How To Order

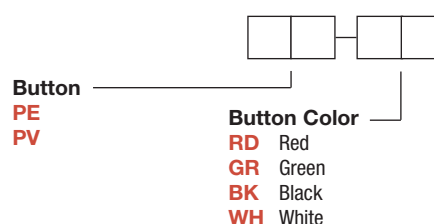
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. **Some of the configurations may not be available or could require some development.**

### Switch



### Button

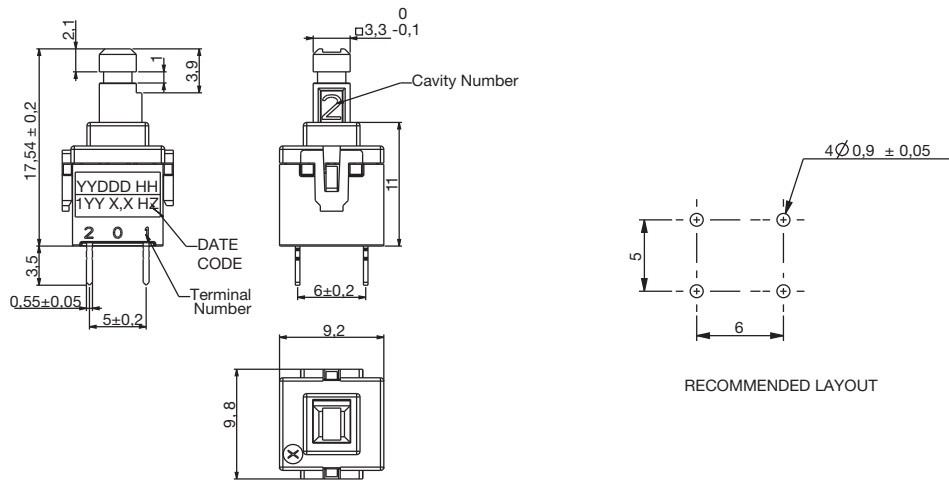
Buttons must be ordered separately.  
 Shipped in bulk.



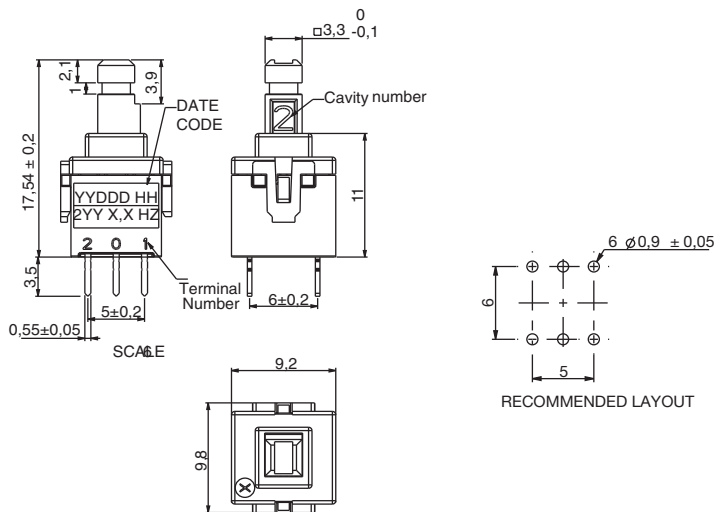
# PVA Short Stroke Key Switches

SERIES

## PVA1 (DPST)



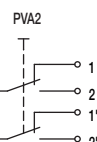
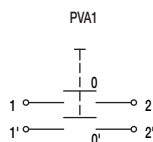
## PVA2 (DPDT)



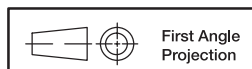
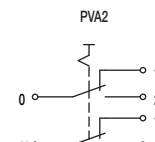
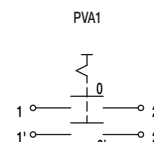
## MECHANICAL FUNCTION

OPTION CODE	FUNCTION
<b>OA</b>	Momentary
<b>EE</b>	Push-Push

**OA**



**EE**

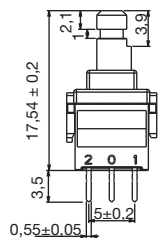


Dimensions are shown: mm  
Specifications and dimensions subject to change

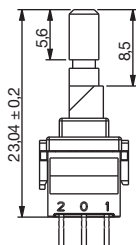
# PVA Short Stroke Key Switches

## TOTAL HEIGHT

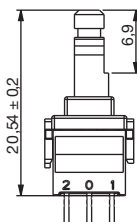
**H1** 17,5 MM



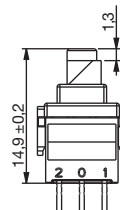
**H2** 23 MM



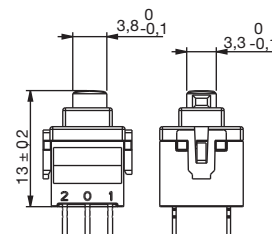
**H3** 20,5 MM



**H4** 15 MM



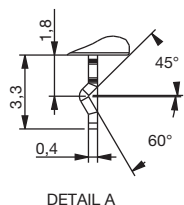
**H5** 13 MM  
(MOMENTARY ONLY)



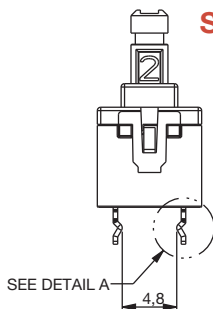
## OPERATING FORCE

- 1.2N** PVA1 ONLY
- 1.7N** PVA2 ONLY
- 2.2N**
- 3.5N**

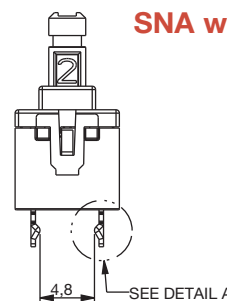
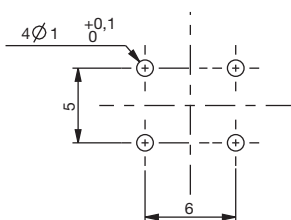
## TERMINATION



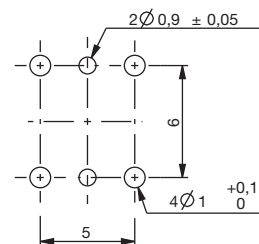
DETAIL A



SNA with PVA1



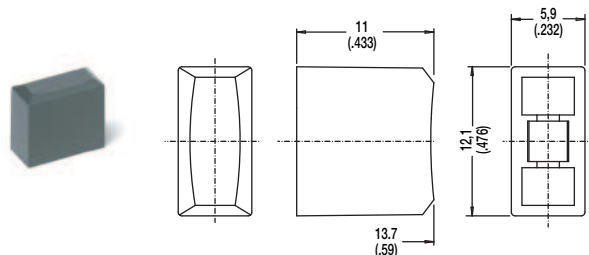
SNA with PVA2



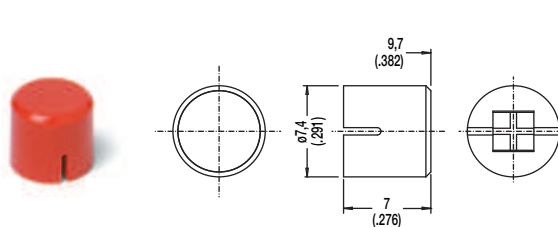
## BUTTONS

BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

**PE**



**PV**



OPTION CODE	COLOR
<b>RD</b>	Red
<b>GY</b>	Gray
<b>BK</b>	Black
<b>WH</b>	White



First Angle Projection

Dimensions are shown: mm  
Specifications and dimensions subject to change