



ZIPPY TECHNOLOGY CORP.

10F, NO.50, MIN CHYUAN ROAD,  
SHIN-TIEN CITY, TAIPEI COUNTY,  
TAIWAN, R.O.C

TEL: 886-2-2918-8512 / 886-2-2918-0603  
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[Http://www.zippy.com.tw](http://www.zippy.com.tw)



## APPROVED DATA SHEET

Model: 1000840821(VM-P1F-01P1-Z)

ISSUED DATE: 2023.07.27

APPROVED NO.: 1000840821.D

PAGE: 1/4

The undersigned guarantee of the model switches is meets the following specifications.

### 1.Operation Characteristics

|                            |   |             |
|----------------------------|---|-------------|
| Operating Force (OF)       | : | Max. 150 gf |
| Releasing Force (RF)       | : | Min. 37 gf  |
| Operating Position (OP)    | : | 15.3±0.5 mm |
| Movement Differential (MD) | : | Max. 0.5 mm |
| Over-travel (OT)           | : | Min. 0.6 mm |
| Pre-travel (PT)            | : | Max. 1.6 mm |

### 2. Specifications

|                             |   |                                                                                                                                                                                       |
|-----------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Initial Contact Resistance  | : | Max. 100 mΩ .<br>( Measured by ohm meter –Open Voltage<1VDC, Driver current -100mA )<br>Before measure the switch contact resistance, please press the switch three times on and off. |
| Initial Dielectric Strength | : | 1,000VAC(50-60HZ)/minute between contacts.<br>1,500VAC(50-60HZ)/minute between Live-parts and dead metal parts.                                                                       |
| Insulation Resistance       | : | Min. 100 MΩ ( 500 VDC/ minute ) between Live-parts and dead metal parts.                                                                                                              |
| Circuit Arrangement         | : | SPST ( Single pole single throw )                                                                                                                                                     |
| Rating                      | : | 0.1A 125/250VAC                                                                                                                                                                       |
| Service Life                | : | Min. 1,000,000 operations.                                                                                                                                                            |
| Rating Load                 | : | Resistive Load.                                                                                                                                                                       |
| Operating Frequency         | : | 120 operations per minute.                                                                                                                                                            |

|                         |   |                                 |
|-------------------------|---|---------------------------------|
| Mechanical Service Life | : | Min. 10,000,000 operations.     |
| Operating Frequency     | : | Max. 120 operations per minute. |

Operating application of the switch : Set the switch pushing distance from 60% to 90% of the specified OT value.



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### 3. Environments

Operating Temperature : -40°C ~85°C ( with no icing )  
Vibration Resistance : 10~55Hz, displacement 0.75mm(p-p)  
Shock Resistance : Destruction: 1,000 m/s<sup>2</sup> {approx. 100G} max.  
Malfunction: 300 m/s<sup>2</sup> {approx. 30G} max.

( For the pin plunger models, the vibration & shock condition apply for use at the free position and total travel position )  
( For the lever models, the vibration & shock condition apply for use at the total travel position )

Soldering by hand : 350°C maximum within 5 seconds.



### 4. Caution:

or click the link→ [https://www.zippy.com/ecmodelcautions/micro\\_switch\\_cautions.pdf](https://www.zippy.com/ecmodelcautions/micro_switch_cautions.pdf)

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卓妍蓁

PREPARED

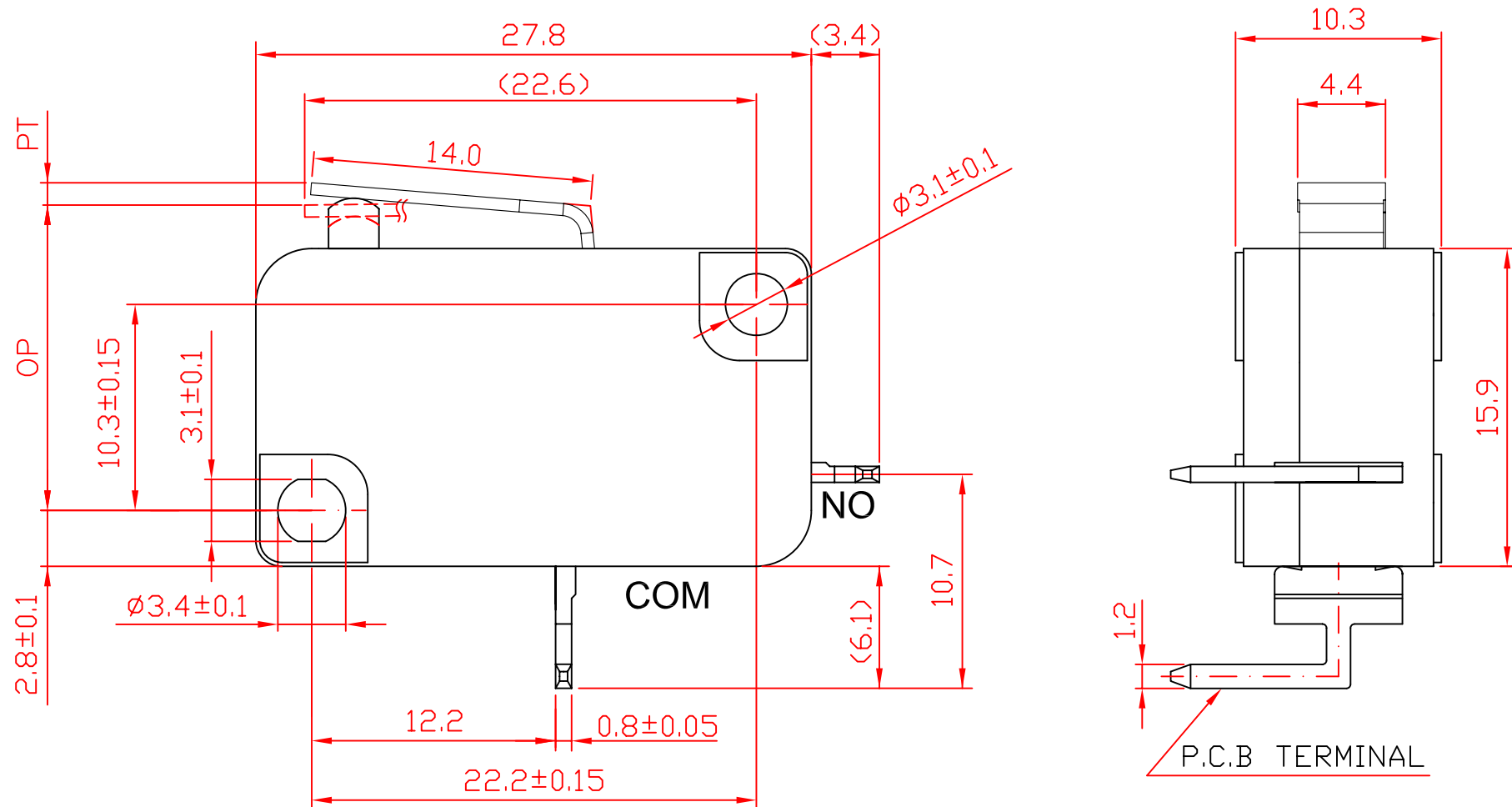
簡永鎮

CHECKED

沈俊榮

APPROVED

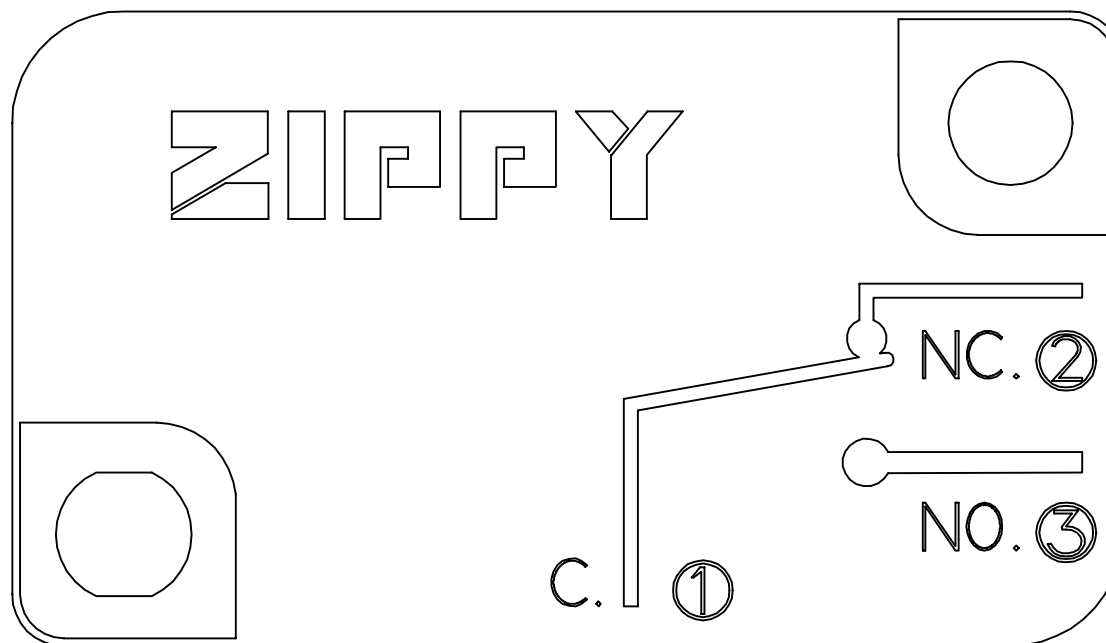
## Dimensions drawing



|                  |           |
|------------------|-----------|
| Tolerance        |           |
| X. X             | $\pm 0.2$ |
| XX. X            | $\pm 0.4$ |
| <b>UNIT</b>      | <i>mm</i> |
| <b>FILE NAME</b> | VM-01P1-R |
| <b>DESIGN</b>    | 沈俊榮       |

|            |      |          |        |                                |          |                                                                                       |         |     |           |           |
|------------|------|----------|--------|--------------------------------|----------|---------------------------------------------------------------------------------------|---------|-----|-----------|-----------|
| △          |      |          |        |                                |          |                                                                                       |         |     | XX. X     | ±0.4      |
|            | DATE | APPROVAL | DESIGN | ENGINEERING CHANGE DESCRIPTION | VIEW     |  | SIZE    | A4  | UNIT      | mm        |
| 新巨企業股份有限公司 |      |          |        | ZIPPY TECHNOLOGY CORP.         | DATE     | JAN.13.2009                                                                           | VER.    | 1.1 | FILE NAME | VM-01P1-R |
|            |      |          |        |                                | APPROVAL | 陳立業                                                                                   | CONFIRM | 張哲維 | DESIGN    | 沈俊榮       |

# VM-P1



## COVER

This page shows switch marking only.

此頁僅顯示開關印字，外觀參照外觀圖

Marking can either be printed or molded

印字可為印刷或模刻

|          |            |         |     |           |       |
|----------|------------|---------|-----|-----------|-------|
| VIEW     |            | SIZE    | A4  | UNIT      | mm    |
| DATE     | 2020.11.11 | VER.    | 1.4 | FILE NAME | VM-P1 |
| APPROVAL | 沈俊榮        | CONFIRM | 張奕鉸 | DESIGN    | 張立人   |