

2021-11-9 Rev. C

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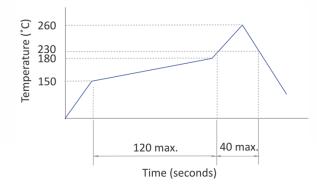
#### **Electrical Specifications**

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			100	milliohms
Insulation Resistance	Between insulated terminals	100		megohms
Dielectric Strength	250 VAC between adjacent switches		1	minute
Nonswitching Rating			50	mA
Nonswitching Rating			or	or
			12	VDC

### **Mechanical and Environmental**

Soldering	Maximum reflow temperature, 260°C for 3 seconds			
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU			
Halogen Free	Halogen Free			
Operating Force	160±50 gf			
Actuation Life	100,000 cycles			
Actuator Strength	3 Kgf maximum			
Travel	0.5±0.15mm			
Packaging	Tape&reel packaging			
Operating Temperature Range	-20°C to +70°C			
Storage Temperature Range	-30°C to +80°C			
MSL Level	3			

#### **Soldering Profile**



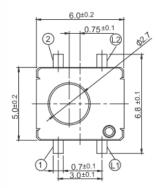


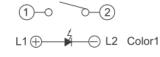
#### **LED Specifications**

Color	Reversed	Reversed	Recommended	Forward Voltage			
	Voltage	Current	Operating	at 20mA			
	(Max)	(Max)	Current	Nor	Max		
Red	5 Vdc	100 µA	30 mA	1.9V	2.4V		
Olive Green	5 Vdc	100 µA	30 mA	1.9V	2.4V		
Yellow	5 Vdc	100 µA	30 mA	1.9V	2.4V		
Blue	5 Vdc	50 μΑ	30 mA	3.2V	4.0V		
				Forward Voltage		Chromaticity Coordinates	
				at 20mA		х	Y
White	5 Vdc	50 μΑ	30 mA	3.0V	4.0V	0.297	0.295

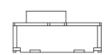
### **Mechanical Specifications**

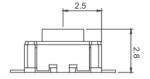
## Figure 1 – 228GMV, Surface Mount Gull Wing , Vertical Actuation





#### **CIRCUIT DIAGRAM**





DIMENSION : mm STANDARD TOLERANCE : ±0.3

6.4±0.1

4

PCB LAYOUT

 $\square$ 

0.6±0.1

1.4±0.1

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7.2±0.1

1:0±[

1.3±0.1

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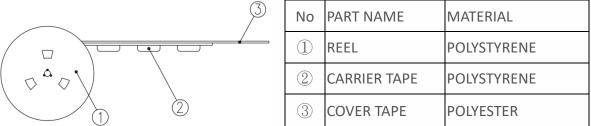


### Packing: Tape and Reel

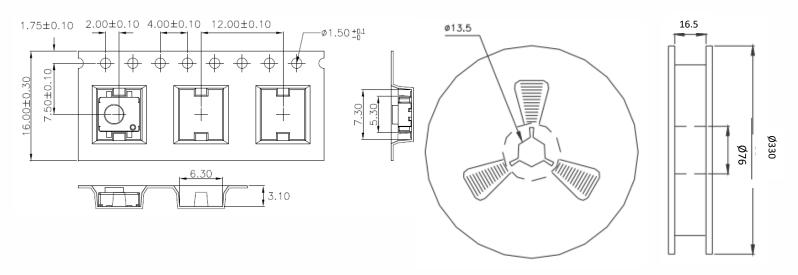
Surface Mount Gull Wing, Actuator Height 2.8mm

#### The packing specifications:

1. Structure and materials:



- 2. Packing quantity: 1650 pcs/reel
- 3. More than 160mm empty pockets should remain at each end of the carrier tape for each reel. After reel packaging, the end of tape 180mm, shall be empty and the tape edge shall be cut in 45°. The cover tape shall be extended 180±10 mm from the tape edge and fixed with tape.
- 4. Shortage of less than 2 pcs a reel is acceptable.
- 5. Stripping strength of cover tape is between 10 gf to 130 gf and stripping angle should be within 165°~180°.
- 6. The product in the pocket of carrier tape should be placed in a specified correct position.
- 7. Tape and reel per EIA-481.
- 8. Dimensions:



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