

Series 228C

7.2 x 6.8mm Illuminated Tactile Switch

- Surface mount gull-wing terminal and standard through hole configurations
- Compatible with IR reflow, and manual soldering
- Single, Bi-color or Tri-color display during illumination
- Variety of LED color options
- Variety of cap styles, colors, and laser etching options

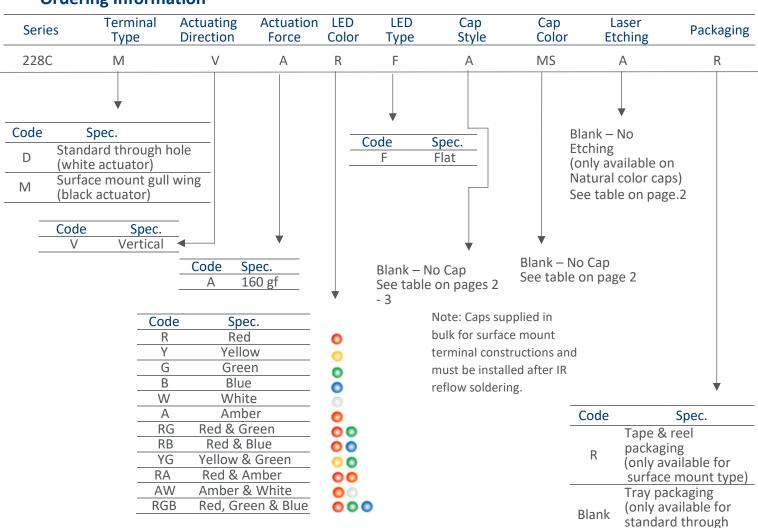


hole type)

Sense

RoHS

Ordering Information





Cap Style

Code	Spec.	
Α	Round (Dia 7.3mm)	
В	Elliptical column on round	
С	Cylinder on	
	square	
D	Cylinder	
Е	Cylinder on round	
F	Joystick button on square	

Cap Etching

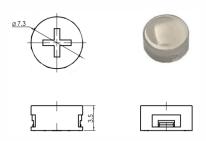
Code	Style
А	
В	0
С	分
D	OK

Cap Color

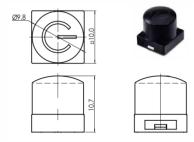
Spec.
Misty Silver
White
Bright Black
Red
Misty Black
Orange
Natural

Cap Style Details

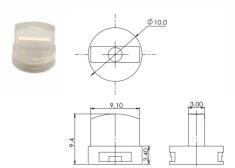
Style A: Round (Dia.7.3mm)



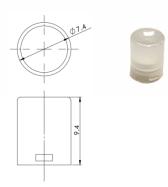
Style C: Cylinder on square



Style B: Elliptical column on round



Style D: Cylinder



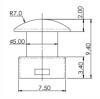


Style E: Cylinder on round

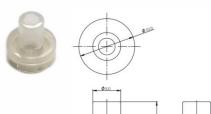




Style F: Joystick button on square







Electrical Specifications

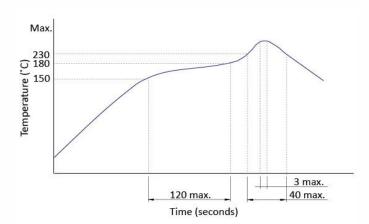
Parameter	Conditions & Remarks	Min	Max	Unit	
Contact Resistance			100	milliohms	
Insulation Resistance	Between insulated terminals 100			megohms	
Dielectric Strength	1 minute between adjacent switches		250	VAC	
Non-switching Rating			50	mA	
Non-switching Rating			or	or	
			12	VDC	

Mechanical and Environmental

Soldering	ing Maximum reflow temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds	
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU and 2015/863/EU	
Operating Force	160±50 gf	
Actuation Life	100,000 cycles	
Actuator Strength	2 Kgf maximum	
Travel	0.25±0.1mm	
Packaging Standard tape and reel packaging for surface mount gull wing terminal Tray packaging for standard though hole		
Operating Temperature Range	-25°C to +70°C	
Storage Temperature Range	-30°C to +80°C	



Soldering Profile



LED Specifications

Color	Reversed Voltage	Forward Current	Recommended Operating	Forward Voltage	
			Current	Nor	
					Max
Red	5 Vdc	20 mA	20 mA	1.7V	2.4V
Green	5 Vdc	20 mA	20 mA	1.9V	2.4V
Yellow	5 Vdc	20 mA	20 mA	1.9V	2.4V
Blue	5 Vdc	20 mA	20 mA	3.0V	3.6V
White	5 Vdc	20 mA	20 mA	3.0V	3.6V

Mechanical Specifications

Figure 1 – 228CDV, Standard Though Hole, Vertical Actuation

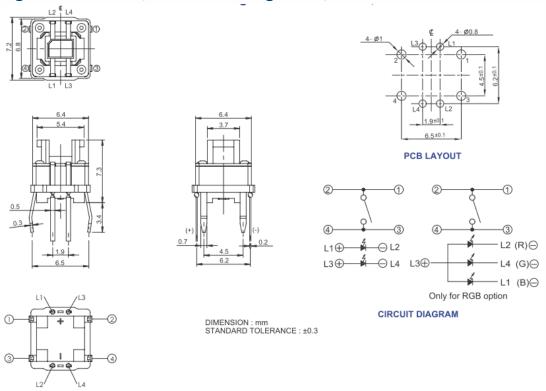




Figure 2 – 228CMV, Surface Mount Gull Wing, Vertical Actuation

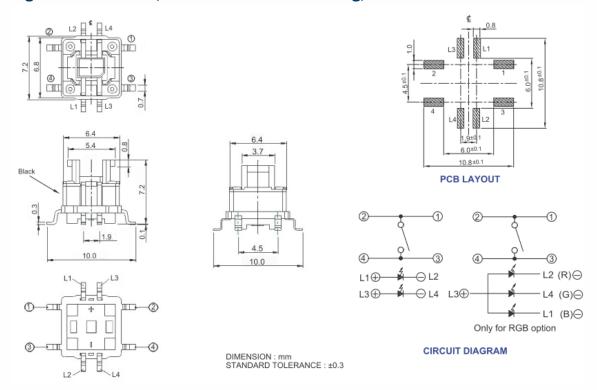
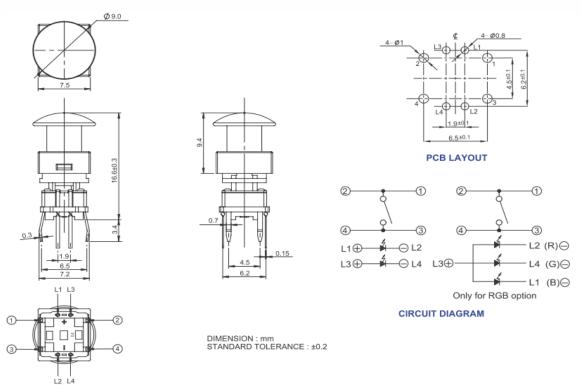


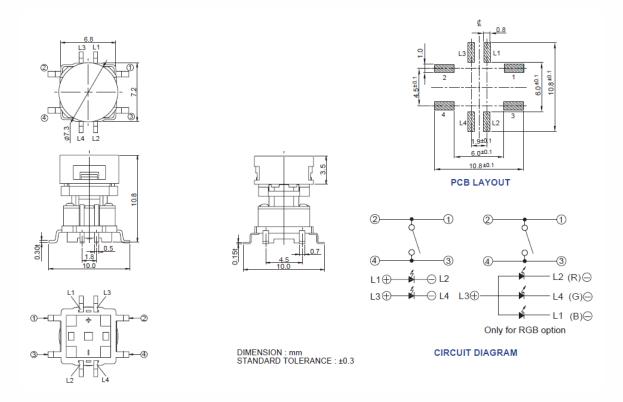
Figure 3 – 228CDV...F..., Standard Though Hole, Vertical Actuation, Joystick Button on Square



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Figure 4 - 228CMV...A..., Standard Though Hole, Vertical Actuation, Round

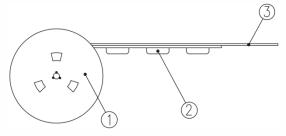


Packing: Tape and Reel

Surface Mount Gull Wing, Actuator Height 7.0mm

The packing specifications:

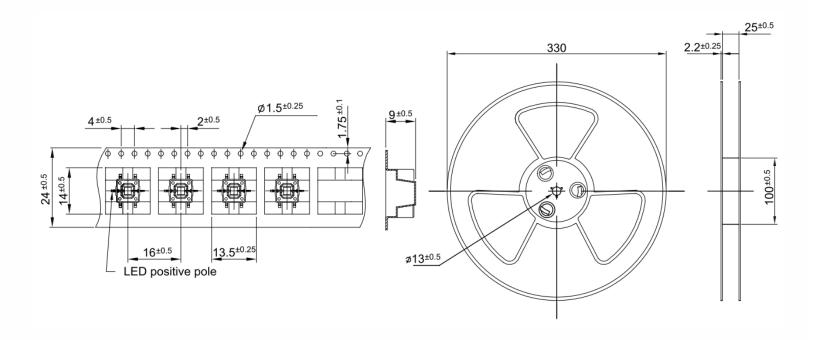
1. Structure and materials:



No	PART NAME	MATERIAL
1	REEL	POLYSTYRENE
2	CARRIER TAPE	POLYSTYRENE
3	COVER TAPE	POLYESTER

- 2. Packing quantity: 450 pcs/reel
- 3. More than 15 empty pockets should remain at each end of the carrier tape for each reel.
- 4. Shortage of less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
- 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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