



Series 228D 6.8 x 5.0mm Illuminated Tactile Switch

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



Terminal Actuating Actuation LED LED Cap Cap Laser Series Packaging Direction Color Style Color Type Force Type Etching 228D R F А MS Μ S1 А R А Blank – No Etching Code Spec. (only available on Standard through hole Natural color caps) (black actuator), terminal D1 See table on page.2 length 1.5mm Surface mount gull wing Blank – No Cap Code Μ Spec. (black actuator) See table on F Flat page 2 Blank – No Cap See table on pages 2 Code Spec. R Red Y Yellow G Pure Green Code Spec. 0 Code Spec. В Blue Tape & reel Side, height: 3.5mm from 0 S1 W White packaging cap center to PCB R A Amber (only available for RG Red & Green surface mount type) 00 RB Red & Blue Tray packaging 00 Yellow & Green YG (only available for Code Spec. Blank 00 BW Blue & White standard through 220 gf A RA Red & Amber 00 hole type) Amber & White AW 00

Note: Caps supplied in bulk for surface mount terminal constructions and must be installed after IR reflow soldering.

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Ordering Information



Cap Style

| Code | Spec. | |
|------|------------------------|--|
| А | Cylinder on 3/4 circle | |

Cap Color

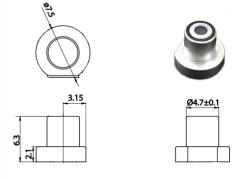
| Code | Spec. | |
|------|-----------------|--|
| MS | 1S Misty Silver | |
| W | White | |
| BB | Bright Black | |
| R | R Red | |
| MB | Misty Black | |
| Α | Orange | |
| Ν | Natural | |
| | | |

Cap Etching

| Code | Style |
|------|-----------|
| А | ዓ |
| В | 0 |
| С | \bullet |
| | |

Cap Style Details

Style A: Cylinder on 3/4 round



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 |
| Nonswitching Rating | | | 50 | mA |
| | | | or | or |
| | | | 12 | VDC |

Mechanical and Environmental

| Maximum reflow temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds | |
|--|--|
| Lead-Free. Fully compliant to RoHS Directive 2011/65/EU and 2015/863/EU | |
| 220gf | |
| 100,000 cycles | |
| 2 Kgf maximum | |
| 0.25±0.1mm | |
| Standard tape and reel packaging for surface mount gull wing terminal Tray packaging for standard though hole | |
| -25°C to +70°C | |
| -30°C to +80°C | |
| | |

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Mechanical Specifications

Figure 1 – 228DD1S1..., Standard Though Hole, Terminal Length 2.1mm, Side Actuation, Height: 3.5mm from cap center to PCB

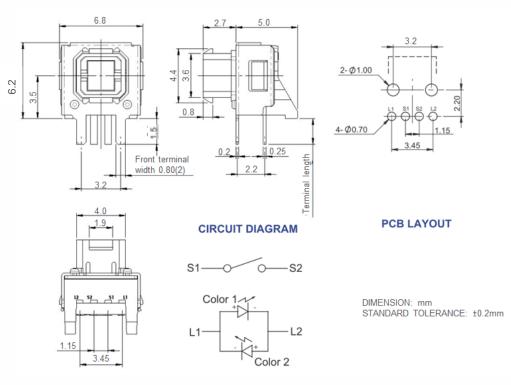
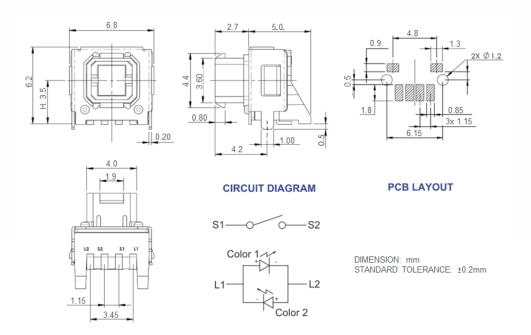


Figure 2 – 228DMS, Surface Mount Gull Wing, Vertical Actuation



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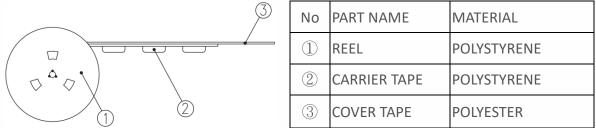


Packing: Tape and Reel

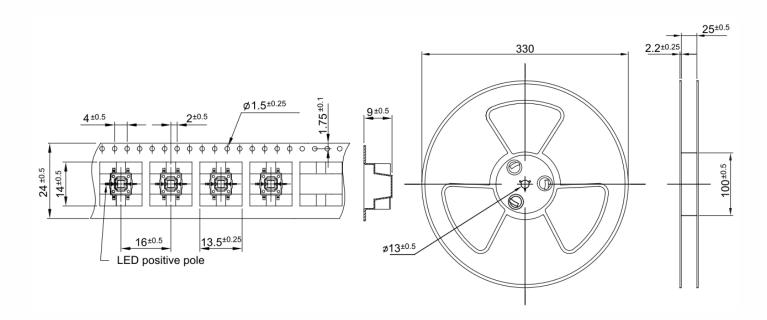
Surface Mount Gull Wing, Actuator Height 7.0mm

The packing specifications:

1. Structure and materials:



- 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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