

## Horizontal Pushbutton

### Specifications

|                       |                               |                       |                        |
|-----------------------|-------------------------------|-----------------------|------------------------|
| Electrical Ratings    | See Contact Options           | Operating Force       | 2 Pole: 350 ± 100gF    |
| Electrical Life       | 100,000 cycles typical        |                       | 4 Pole: 450 ± 100gF    |
| Contact Resistance    | <50mΩ initial @ 2-4VDC, 100mA |                       | 6 Pole: 550 ± 100gF    |
| Dielectric Strength   | 2000Vrms min                  |                       | 8~10 Pole: 650 ± 150gF |
| Insulation Resistance | >100MΩ min                    | Operating Temperature | -20°C to 70°C          |
|                       |                               | Storage Temperature   | -40°C to 85°C          |

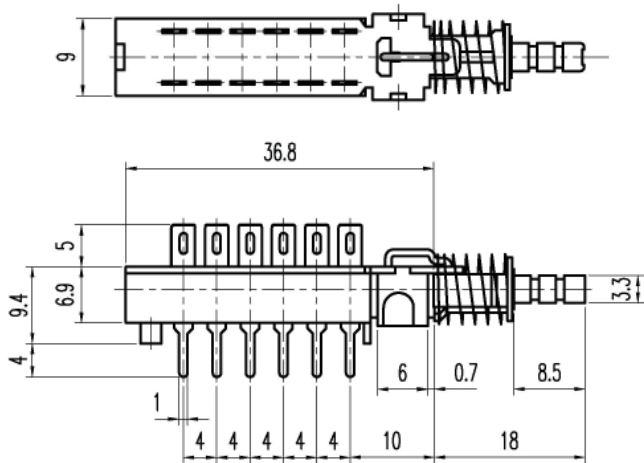
### Materials

|               |   |
|---------------|---|
| Actuator      | POM   |
| Housing       | PC  |
| Terminal Base | Phenolic                                      |
| Contacts      | Phosphor Bronze, Silver or Gold-Nickel Plated |
| Terminals     | Brass, Silver or Gold-Nickel Plated           |
| Chassis       | Steel   |
| Spring        | Steel   |
| Latching Pin  | Steel   |

### Ordering Information

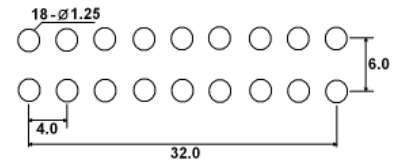
|  |     |     |   |   |   |   |  |
|--|-----|-----|---|---|---|---|--|
| 1. Series  | DL  | 4   | N | F | B | Q | C132                                     |
| DL   |     |     |   |   |   |   |  |
| 2. Number of Poles   |     |     |   |   |   |   |  |
| 2 = DPDT   |     |     |   |   |   |   |  |
| 4 = 4PDT   |     |     |   |   |   |   |  |
| 6 = 6PDT   |     |     |   |   |   |   |  |
| 8 = 8PDT   |     |     |   |   |   |   |  |
| 10 = 10PDT   |     |     |   |   |   |   |  |
| **Stacking switch part numbers are:                                |     |     |   |   |   |   |  |
| DL2LAQ/4LAQ  |     |     |   |   |   |   |  |
| DL2LAQ/6LAQ  |     |     |   |   |   |   |  |
| 3. Actuation Force Options   |     |     |   |   |   |   |  |
| None = Standard Force  |     |     |   |   |   |   |  |
| 4. Switch Function   |     |     |   |   |   |   |  |
| N = Non-latching   |     |     |   |   |   |   |  |
| L = Latching   |     |     |   |   |   |   |  |
| 5. Terminal Options  |     |     |   |   |   |   |  |
| A, F, E, C, G  |     |     |   |   |   |   |  |
| 6. Mounting Options  |     |     |   |   |   |   |  |
| Blank = No Chassis (standard)                                      |     |     |   |   |   |   |  |
| B = Mounting Chassis, single stage, 3.2mm dia mounting holes       |     |     |   |   |   |   |  |
| C = Mounting Chassis, single stage, M3x0.5 threaded mounting holes |     |     |   |   |   |   |  |
| **Multi-Stage switch assembly part numbers assigned at factory     |     |     |   |   |   |   |  |
| 7. Contact Material  |     |     |   |   |   |   |  |
| Q = Silver   |     |     |   |   |   |   |  |
| R = Gold   |     |     |   |   |   |   |  |
| 6. Caps  |     |     |   |   |   |   |  |
| Blank = No Cap   | C14 | C19 |   |   |   |   | Cap Colors                               |
| C11  | C15 | C20 |   |   |   |   | **See Cap Options for color availability |
| C12  | C16 | C22 |   |   |   |   |  |
| C13  | C18 | C26 |   |   |   |   |  |

**Dimensions**

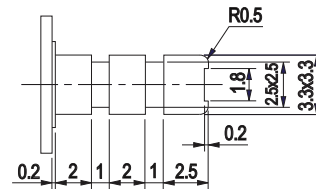
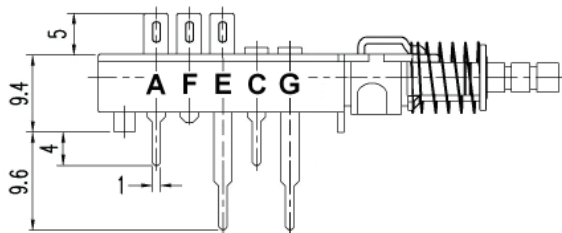


**PC Layout**

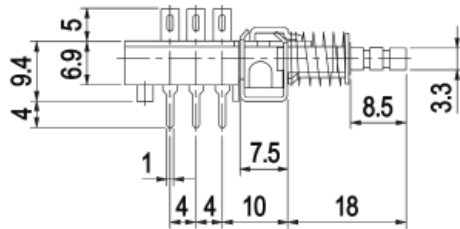
| Number of Poles | "L" mm | "P" mm | "A" mm |
|-----------------|--------|--------|--------|
| 2               | 24.8   | 6      | 8      |
| 4               | 36.8   | 12     | 16     |
| 6               | 48.8   | 18     | 24     |
| 8               | 60.8   | 24     | 32     |
| 10              | 72.8   | 30     | 40     |



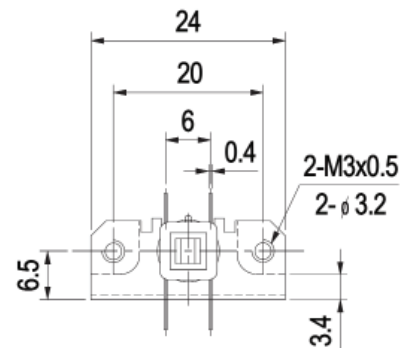
**Terminal Options and Actuator Detail**



**Mounting Options**

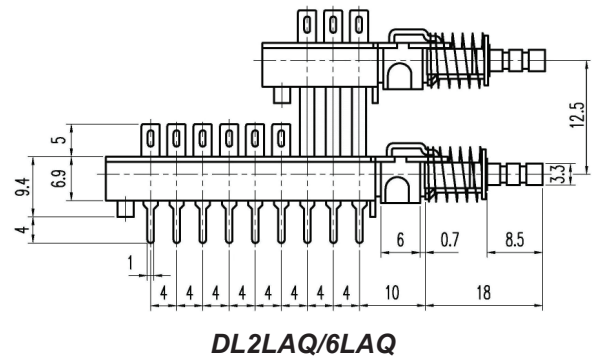
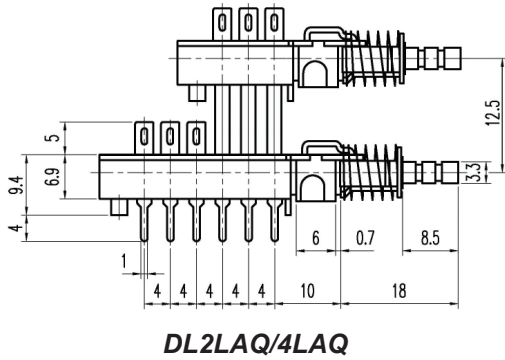


**B = 3.2mm mounting holes**



**C = M3x0.5 mounting holes**

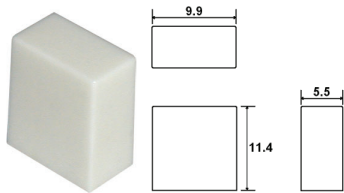
### Stacking Switches



### Contact Options

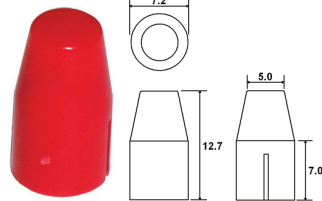
| Designator | Contact Material         | Terminal Material        | Electrical Ratings           |
|------------|--------------------------|--------------------------|------------------------------|
| Q          | Silver Plating           | Silver Plating           | 500mA @ 120VAC, 1A @ 28VDC   |
| R          | Gold over Nickel Plating | Gold over Nickel Plating | 0.4VA max @ 20VAC or VDC max |

### Cap Options



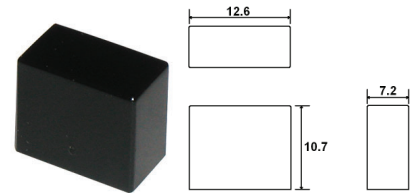
**C11\_**

1 = White, 2 = Black, 3 = Red, 9 = Light Gray  
Contact Factory for other available colors



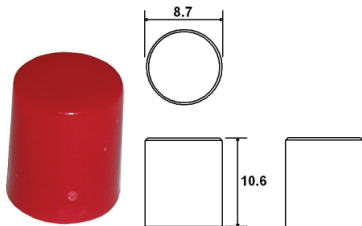
**C12\_**

1 = White, 2 = Black, 3 = Red, 9 = Light Gray  
Contact Factory for other available colors



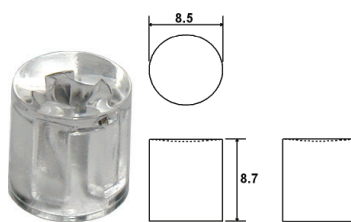
**C13\_**

1 = White, 2 = Black, 3 = Red, 9 = Light Gray  
Contact Factory for other available colors



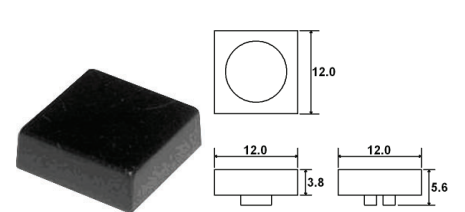
**C14\_**

1 = White, 2 = Black, 3 = Red, 9 = Light Gray  
Contact Factory for other available colors



**C15\_**

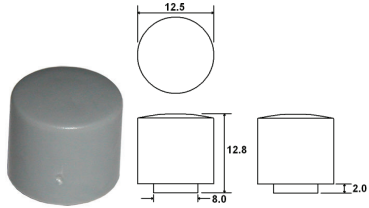
2 = Black, 0 = Clear  
Contact Factory for other available colors



**C16\_**

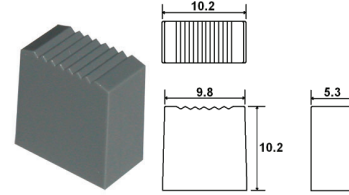
1 = White, 2 = Black, 3 = Red, 7 = Blue  
Contact Factory for other available colors

**Cap Options**



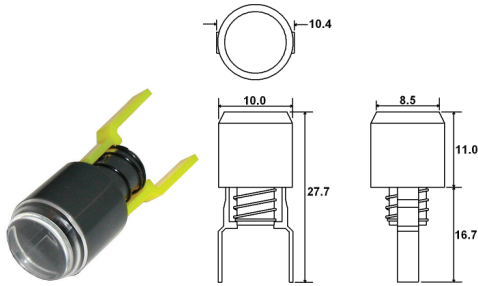
**C18\_**

1 = White, 2 = Black, 9 = Light Gray  
Contact Factory for other available colors



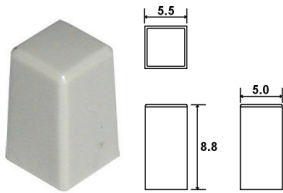
**C19\_**

1 = White, 2 = Black, 3 = Red, 8 = Dark Gray  
Contact Factory for other available colors



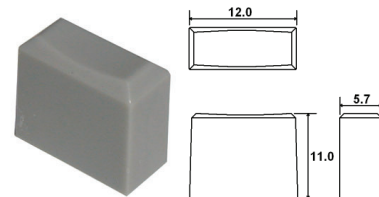
**C20\_ \_**

Housing Color : 2 = Black, 9 = Light Gray  
Indicator Color : 1 = White, 4 = Yellow, 5 = Green, 7 = Blue  
Contact Factory for other available colors



**C22\_**

1 = White, 2 = Black, 8 = Dark Gray, 9 = Light Gray  
Contact Factory for other available colors

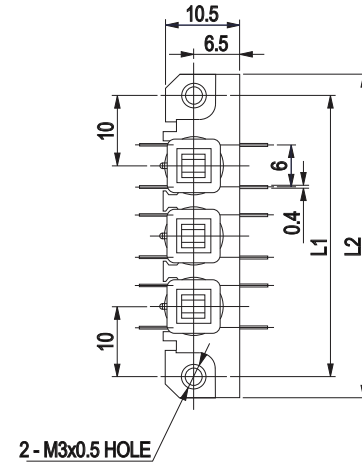
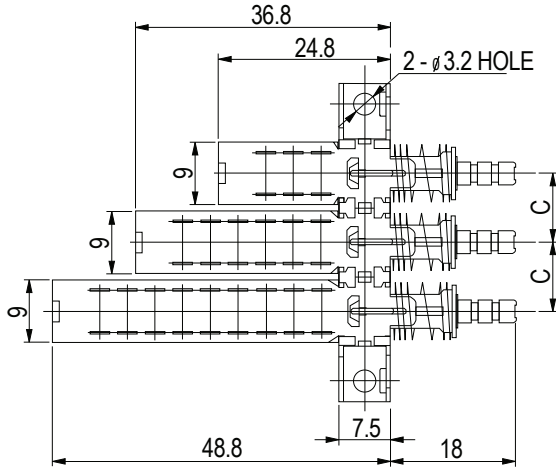


**C26\_**

1 = White, 2 = Black, 3 = Red, 9 = Light Gray  
Contact Factory for other available colors

## Multi-Stage Chassis

Part Numbers assigned at the factory



## Bracket Length & Mounting Pitch

| Pitch<br>(C) | Number of Positions |    |      |      |    |    |      |      |     |     |       |       |
|--------------|---------------------|----|------|------|----|----|------|------|-----|-----|-------|-------|
|              | 1                   |    | 2    |      | 3  |    | 4    |      | 5   |     | 6     |       |
|              | L1                  | L2 | L1   | L2   | L1 | L2 | L1   | L2   | L1  | L2  | L1    | L2    |
| 10mm         | 18                  | 24 | 30   | 36   | 40 | 46 | 50   | 56   | 60  | 66  | 70    | 76    |
| 12.5mm       |                     |    | 32.5 | 38.5 | 45 | 51 | 57.5 | 63.5 | 70  | 76  | 82.5  | 88.5  |
| 15mm         |                     |    | 35   | 41   | 50 | 56 | 65   | 71   | 80  | 86  | 95    | 101   |
| 17.5mm       |                     |    | 37.5 | 43.5 | 55 | 61 | 72.5 | 78.5 | 90  | 96  | 107.5 | 113.5 |
| 20mm         |                     |    | 40   | 46   | 60 | 66 | 80   | 86   | 100 | 106 | 120   | 126   |
| 25mm         |                     |    | 45   | 51   | 70 | 76 | 95   | 101  | 120 | 126 | 145   | 151   |
| 30mm         |                     |    | 50   | 56   | 80 | 86 | 110  | 116  | 140 | 146 | 170   | 176   |