# Panasonic

**1VL** Detector Switches

Type: ESE13



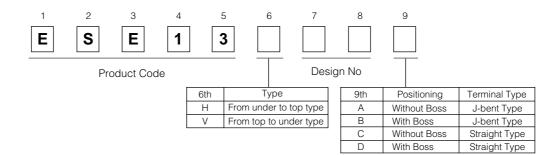
### Features

- Thin type : Height=1.2 mm
- Highly reliable contact
- SMD type (Embossed taping, Reflow soldering)

#### Recommended Applications

 Detection of media in portable electronic equipment (Mobile phones / Digital still cameras / Camcorders)

### Explanation of Part Numbers



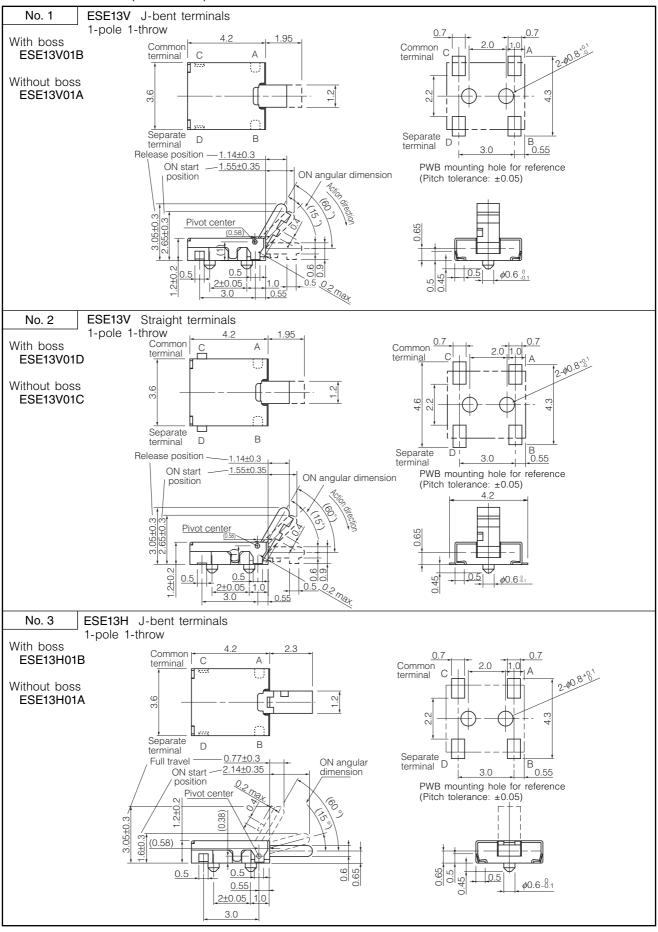
#### Specifications

| Rating                          |        | 50 µA 3 Vdc to 10 mA 5 Vdc (Resistive load)              |
|---------------------------------|--------|--|
| Contact Resistance              |        | 500 m $\Omega$ max. (Initial)                            |
| Insulation Resistance           |        | 100 MΩ min. (100 Vdc)                                    |
| Dielectric Withstanding Voltage |        | 100 Vac for 1 minute                                     |
| Operating Force                 |        | 300 mN max.  |
| Mounting Height                 |        | 1.2 mm   |
| Poles and Throws                |        | 1-pole 1-throw   |
| Full Travel (Pushing distance)  |        | Type V : 2.15 mm (2.15 mm)<br>Type H : 3.05 mm (2.15 mm) |
| Operating Life                  |        | 50000 cycles min.  |
| Temperature Range               |        | -10 °C to +60 °C   |
| Heat Resistance                 |        | +70 °C for 96 hours                                      |
| Low Temperature Resistance      |        | –25 °C for 96 hours                                      |
| Humidity Resistance             |        | +40 °C 90 % to 95 % RH for 96 hours                      |
| Minimum Quantity/Packing Unit   | ESE13H | 5000 pcs. Embossed Taping (Reel Pack)                    |
|                                 | ESE13V | 3000 pcs. Embossed Taping (Reel Pack)                    |
| Quantity/Carton                 | ESE13H | 30000 pcs.   |
|                                 | ESE13V | 18000 pcs.   |

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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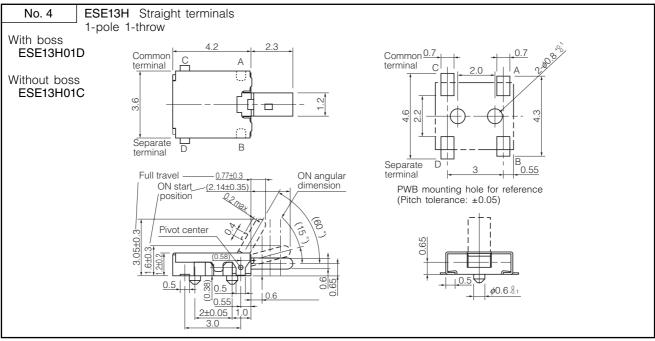
#### Dimensions in mm (not to scale)



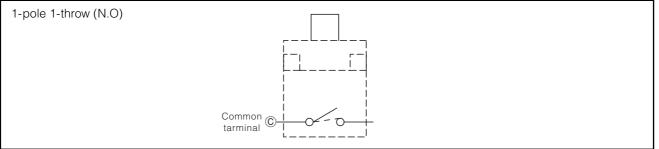
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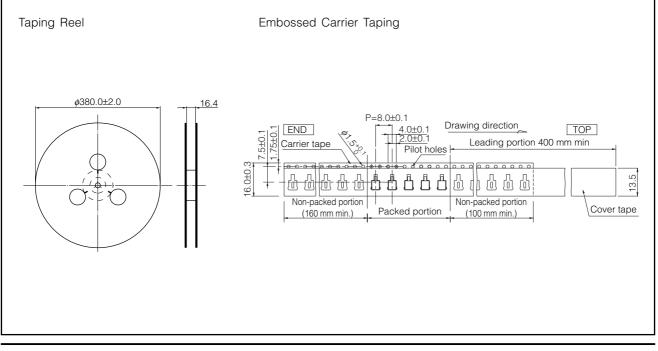
#### Dimensions in mm (not to scale)



#### Circuit Diagram



#### Packaging Specifications Standard Reel Dimensions in mm (not to scale)



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