

1VL Detector Switches

Japan

Type: **ESE13**

Development of detection switches in preparation for miniaturized, thin, and light portable equipment and to respond to demand for multiple operations.



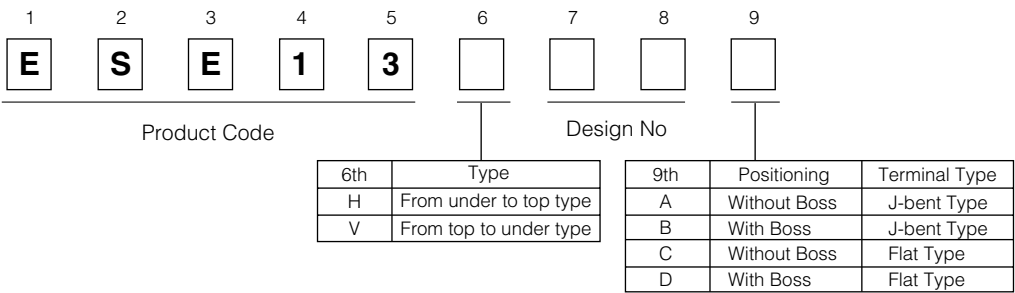
■ Features

- Super thin type : Height : 1.2 mm
- Highly reliable contact through applying our own self-wiping leaf spring contact construction.
- SMT correspondence
(Embossed Taping, Reflow soldering)

■ Recommended Applications

- Portable Electronic Equipment
(Cellular Telephones, Portable Information Equipment)

■ Explanation of Part Numbers



■ Major Specifications

Power Rating		50 μA 3 V dc to 10 mA 5 V dc
Contact Resistance		1 Ω max.
Insulation Resistance		100 MΩ max. (100 V dc)
Dielectric Withstanding Voltage		100 V ac for 1 minute
Operating Force		300 mN max.
Full Travel		1.5 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. (Reel Pack)
	ESE13V	3000 pcs. (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.

■ Dimensions in mm (not to scale)

No. 1 ESE13V J-bent terminals 1-pole 1-throw With boss ESE13V01B Without boss ESE13V01A		Recommended PWB piercing Plan (Pitch tolerance: ± 0.05)
No. 2 ESE13V Straight terminals 1-pole 1-throw With boss ESE13V01D Without boss ESE13V01C		Recommended PWB piercing Plan (Pitch tolerance: ± 0.05)
No. 3 ESE13H J-bent terminals 1-pole 1-throw With boss ESE13H01B Without boss ESE13H01A		Recommended PWB piercing Plan (Pitch tolerance: ± 0.05)

■ Dimensions in mm (not to scale)

No. 4

ESE13H Straight terminals
1-pole 1-throw

With boss
ESE13H01D

Without boss
ESE13H01C

Common terminal

Separate terminal

Full travel

On start position

Pivot center

ON angular dimension

Action direction

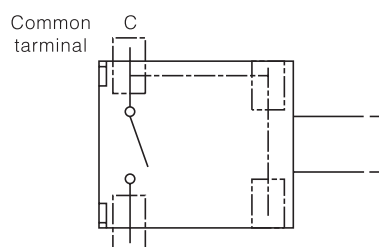
Inspection measurement point

Pushing point

Recommended PWB piercing Plan
(Pitch tolerance: ± 0.05)

■ Circuit Diagram

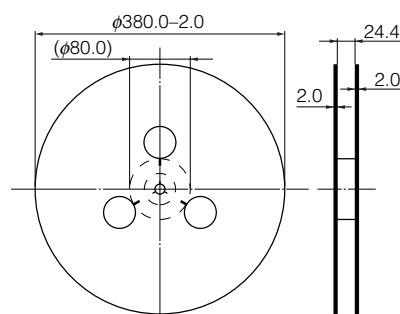
1-pole 1-throw (N.O)



■ Packaging Methods

Standard Reel Dimensions in mm (not to scale)

Taping Reel



Embossed Carrier Taping

