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

1	2	3	4	5	6	7	8	9
E	S	E	1	3				

Product Code

Design No

6th	Type
H	From under to top type
V	From top to under type

9th	Positioning	Terminal Type
A	Without Boss	J-bent Type
B	With Boss	J-bent Type
C	Without Boss	Straight Type
D	With Boss	Straight Type

■ Specifications

Rating		50 µA 3 Vdc to 10 mA 5 Vdc (Resistive load)
Contact Resistance		500 mΩ 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) 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.

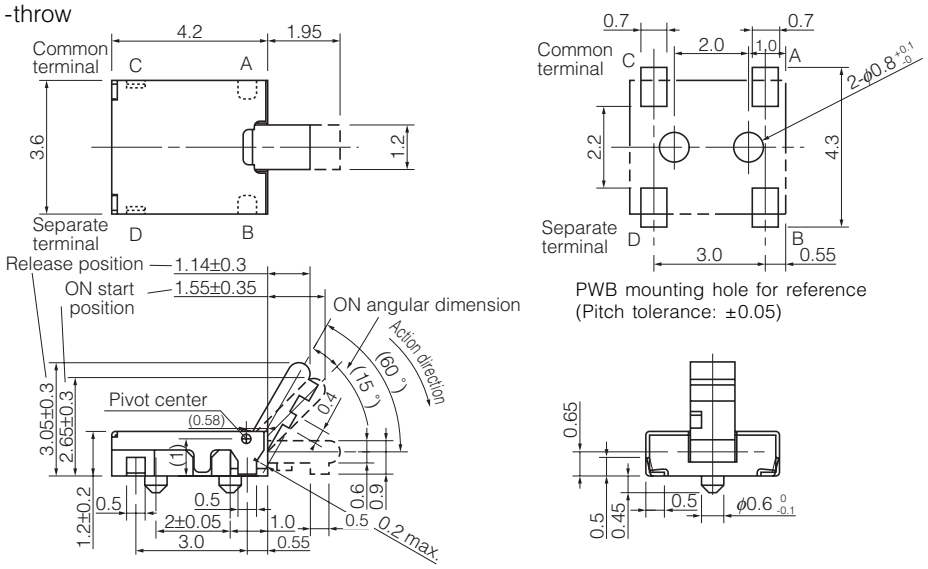
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■ Dimensions in mm (not to scale)

No. 1 ESE13V J-bent terminals
1-pole 1-throw

With boss
ESE13V01B

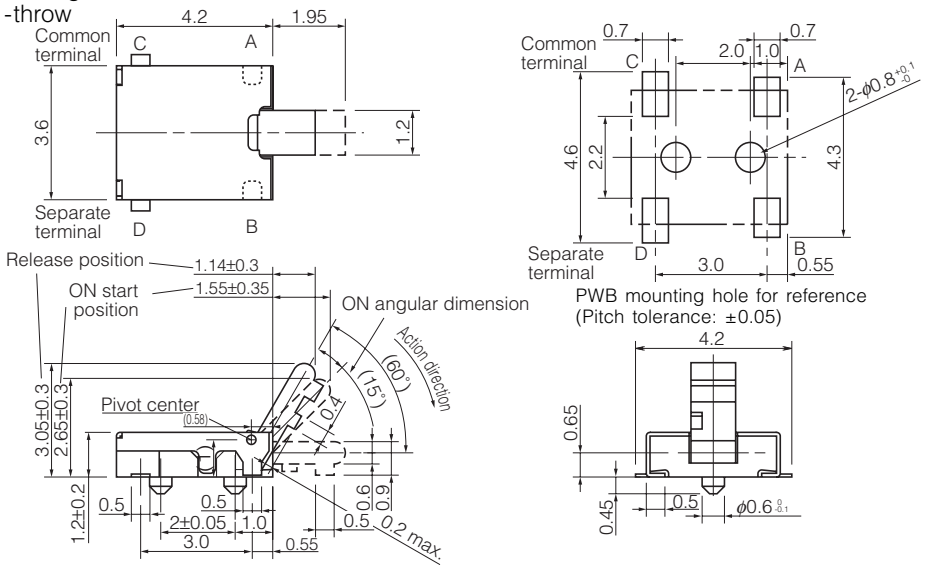
Without boss
ESE13V01A



No. 2 ESE13V Straight terminals
1-pole 1-throw

With boss
ESE13V01D

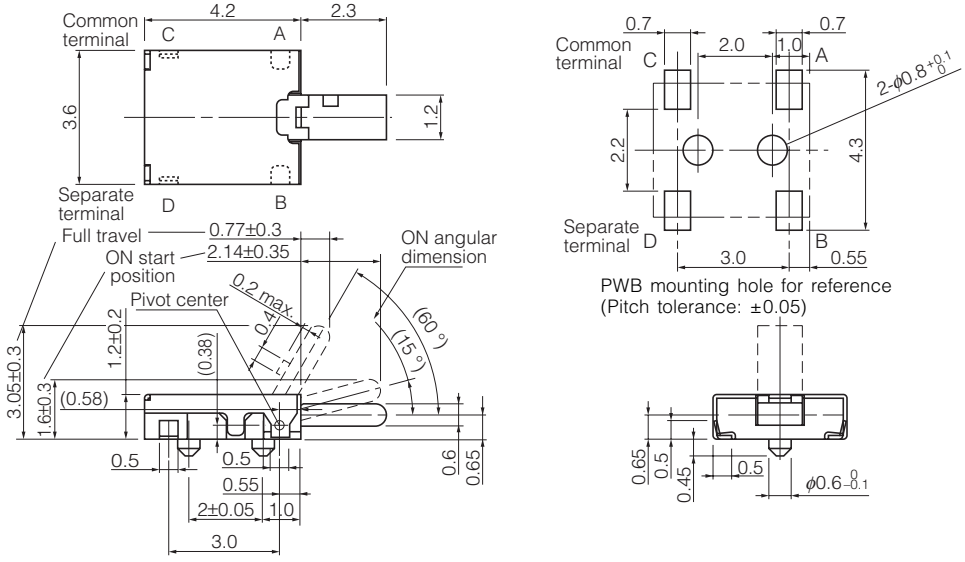
Without boss
ESE13V01C



No. 3 ESE13H J-bent terminals
1-pole 1-throw

With boss
ESE13H01B

Without boss
ESE13H01A



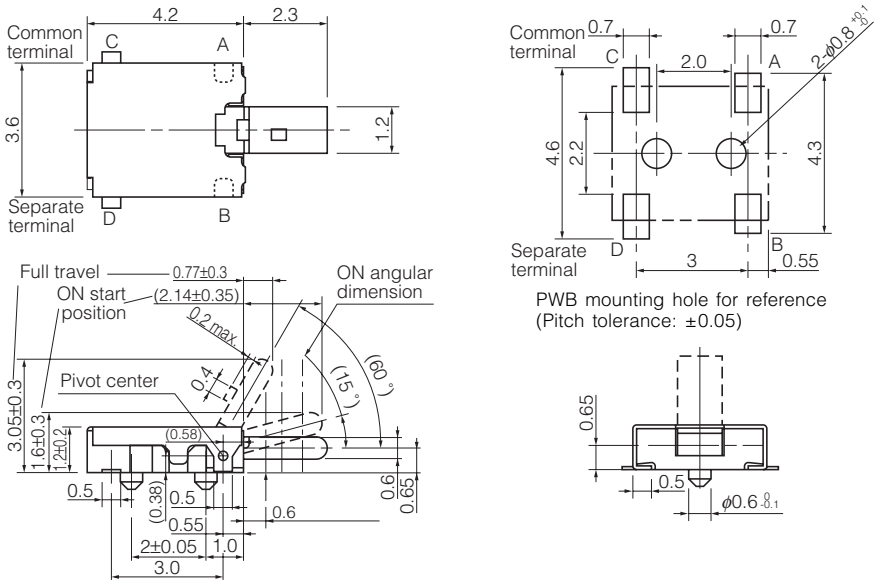
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■ Dimensions in mm (not to scale)

No. 4 **ESE13H** Straight terminals
1-pole 1-throw

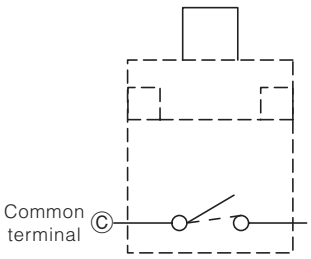
With boss
ESE13H01D

Without boss
ESE13H01C



■ Circuit Diagram

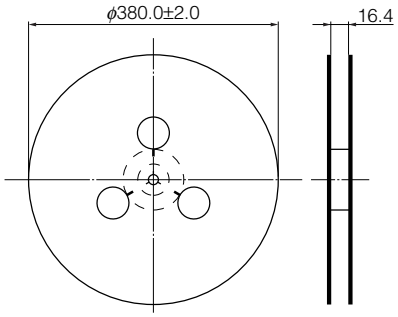
1-pole 1-throw (N.O)



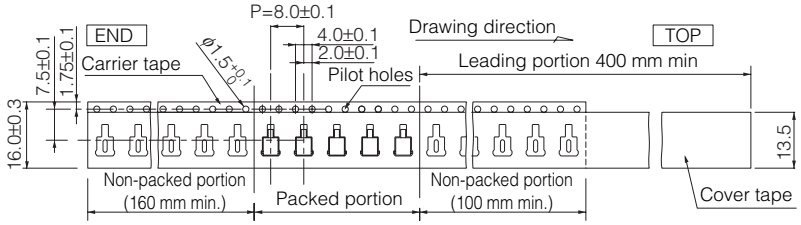
■ Packaging Specifications

Standard Reel Dimensions in mm (not to scale)

Taping Reel



Embossed Carrier Taping



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