

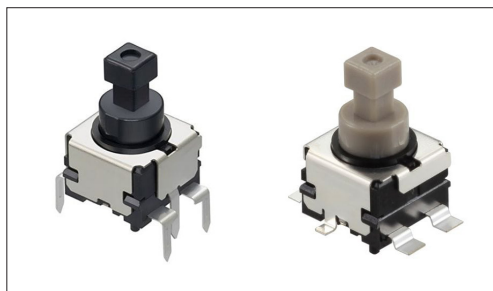
Switches

Push Switches

1.5mm-travel Vertical Type

SPEF Series

Supports surface mounting with lead-free solder.



Automotive

- Rating (max.)/(min.) (Resistive load): 1A 14.5V DC/50 μ A 3V DC
- Contact resistance (Initial performance/After lifetime): 100m Ω max./1 Ω max.
- Operating life with load (at max. rated load): 30,000 cycles 100m Ω max.

Applications: Automotive: Map Lamp, Hazard Lights

■ Product List

Products No.	Travel (mm)	Total travel (mm)	Poles	Positions	Operating force	Changeover timing	Mounting method	Operation	Terminal type	Dimensions (W×D×H) (mm)	Automotive	Drawing No.
SPEF210101	1.5	2.7	1	2	3N	Non shorting	PC board	Latching	Reflow	9.4×9.0×6.9	●	1
SPEF110100	1.5	2.7	1	2	3N	Non shorting	PC board	Latching	Dip	9.4×9.0×6.9	●	2
SPEF210200	1.5	2.7	1	2	5N	Non shorting	PC board	Latching	Reflow	9.4×9.0×6.9	●	1
SPEF110200	1.5	2.7	1	2	5N	Non shorting	PC board	Latching	Dip	9.4×9.0×6.9	●	2
SPEF220100	—	2.7	1	2	3N	Non shorting	PC board	Alternate	Reflow	9.4×9.0×6.9	●	3
SPEF120100	—	2.7	1	2	3N	Non shorting	PC board	Alternate	Dip	9.4×9.0×6.9	●	4
SPEF220200	—	2.7	1	2	5N	Non shorting	PC board	Alternate	Reflow	9.4×9.0×6.9	●	3
SPEF120200	—	2.7	1	2	5N	Non shorting	PC board	Alternate	Dip	9.4×9.0×6.9	●	4

Note

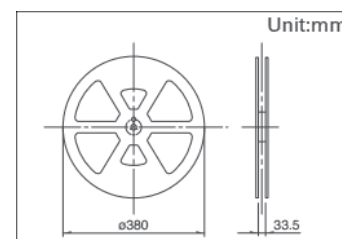
1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Please place purchase orders per minimum order unit (integer).
3. This products can be used in vehicles.

Although these products are designed to perform over a wide operating temperature range, please ensure that you receive and read the formal delivery specifications before use.

■ Packing Specifications

Taping

Products No.	Number of packages(pcs.)			Tape width (mm)	Export package measurements (mm)
	1 reel	1 case / Japan	1 case / export packing		
SPEF210101 SPEF210200 SPEF220100 SPEF220200	165	660	1,320	32	403×403×360



Tray

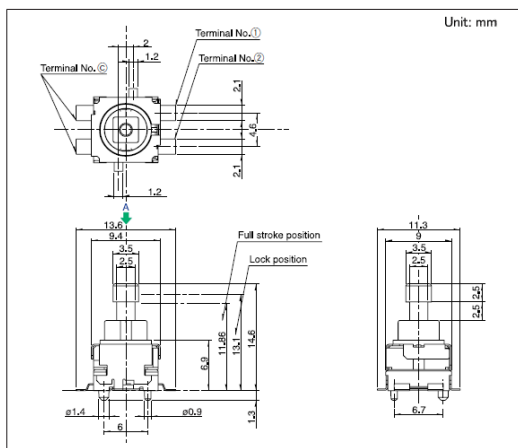
Products No.	Number of packages(pcs.)		Export package measurements (mm)
	1 case / Japan	1 case / export packing	
SPEF110100 SPEF110200 SPEF120100 SPEF120200	1,050	4,200	540 x 360 x 230

Switches Push Switches

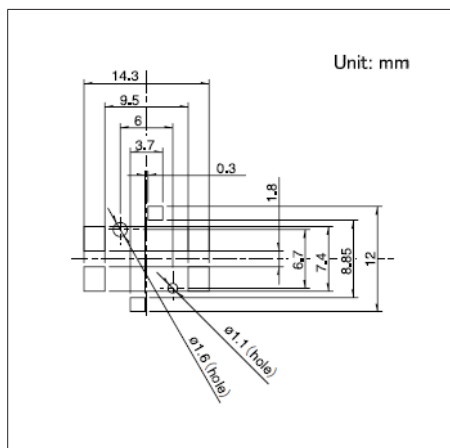
1.5mm-travel Vertical Type
SPEF Series

Drawing No.1

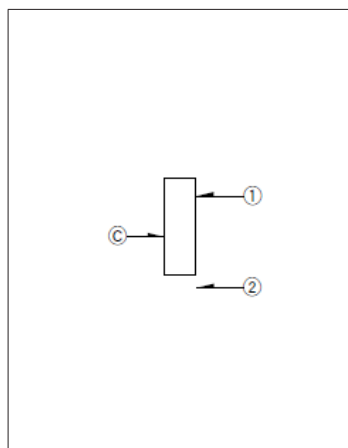
■ Dimensions



■ Land Dimensions



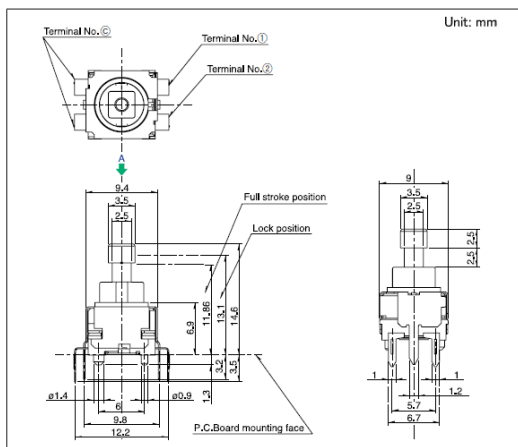
■ Circuit Diagram



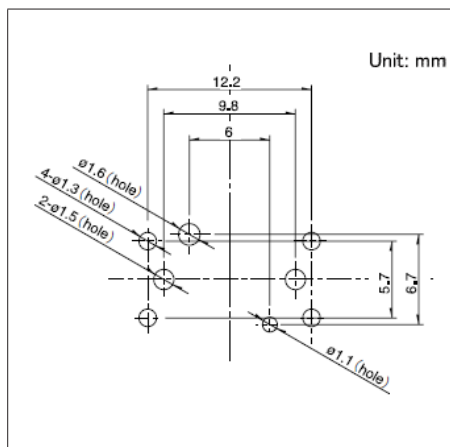
Viewed from direction A in the dimensions.

Drawing No.2

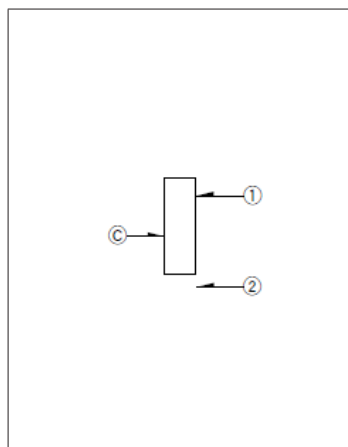
■ Dimensions



■ Mounting Hole Dimensions



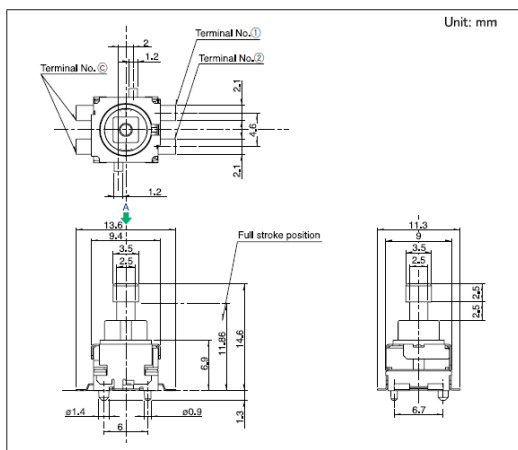
■ Circuit Diagram



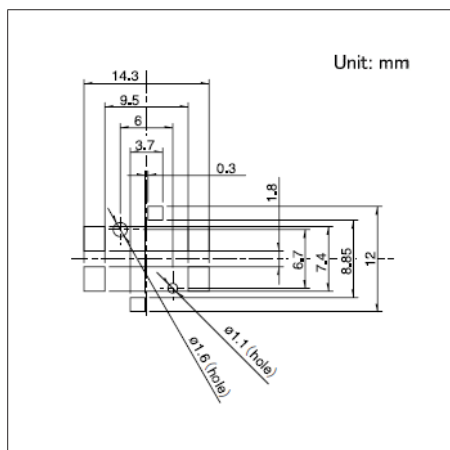
Viewed from direction A in the dimensions.

Drawing No.3

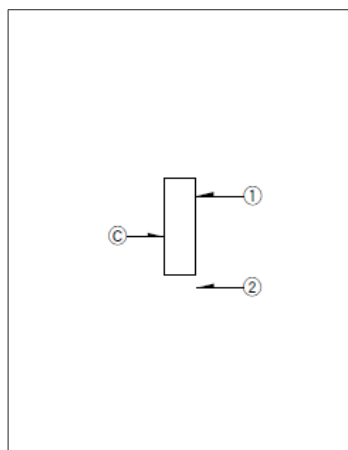
■ Dimensions



■ Land Dimensions



■ Circuit Diagram



Viewed from direction A in the dimensions.

