1.5mm-travel Vertical Type SPEF Series

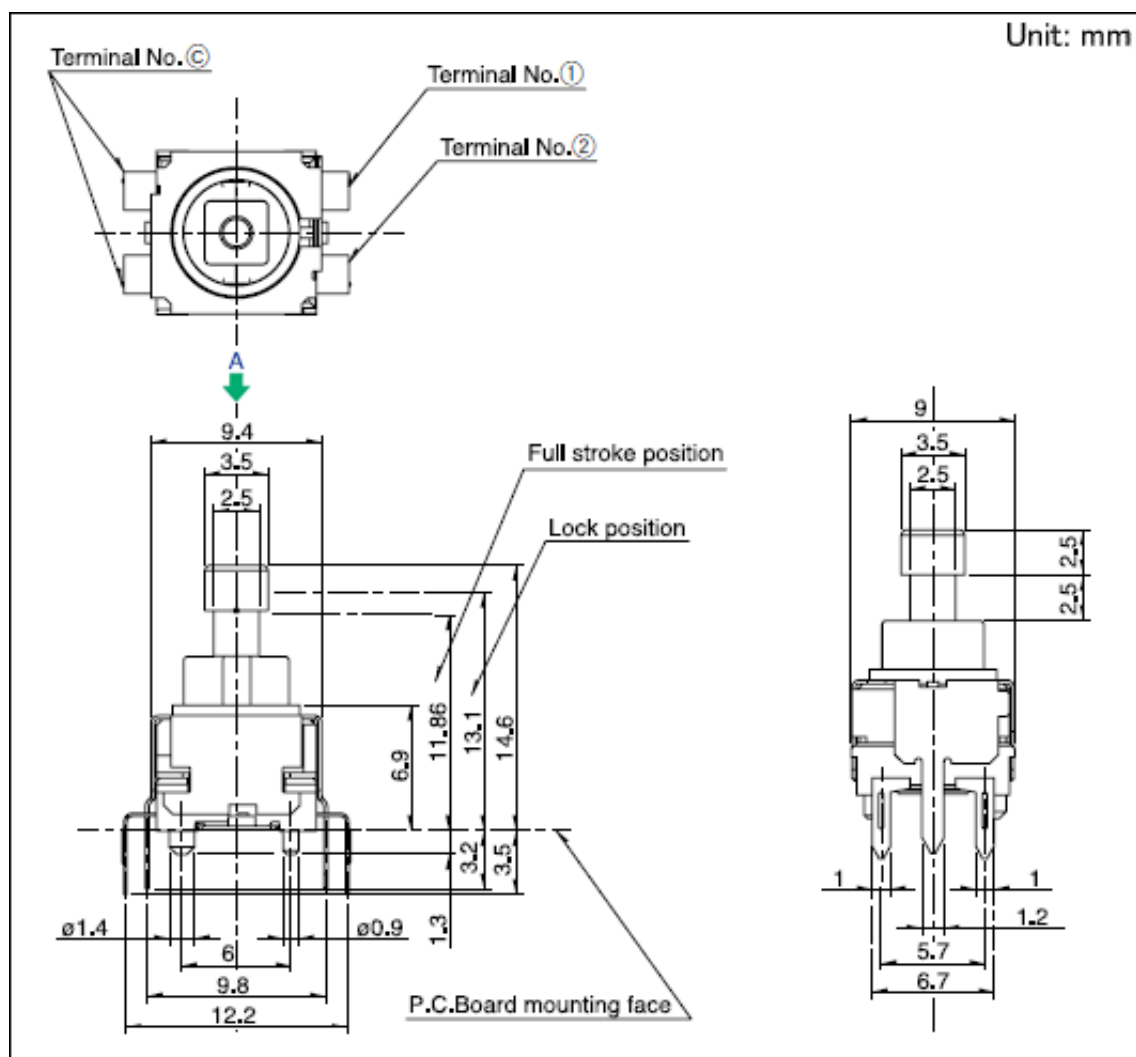| Part number			**SPEF110200**
Changeover timing			Non shorting
Travel			1.5mm
Total travel			2.7mm
Operating force			5N
Mounting method			PC board
Poles-Positions			1-pole, 2-positions
Operation			Latching
Terminal type			Dip
Operating temperature range			-40℃ to +85℃
Rating (max.)/(min.) (Resistive load)			1A 14.5V DC/50µA 3V DC
Electrical performance	Contact resistance (Initial performance/After lifetime)		100mΩ max./100mΩ max.
	Insulation resistance		3MΩ min. 100V DC
	Voltage proof		100V AC for 1 minute
Mechanical performance	Actuator strength	Operating direction	90N
		Pulling direction	30N
Durability	Operating life with load (at max. rated load)		30,000 cycles 100mΩ max.
Environmental performance	Cold		-40±2℃ for 96h
	Dry heat		85±2℃ for 96h

Damp heat		40±2℃, 90 to 95%RH for 96h
Minimum order unit (pcs.)	Japan	1,050
	Export	4,200

Dimensions

Unit: mm

Terminal No.ⒸＣ
Terminal No.①
Terminal No.②

A

9.4
3.5
2.5

Full stroke position
Lock position

6.9
11.86
13.1
14.6
3.2
3.5
1.3

ø1.4
ø0.9
6
9.8
12.2

P.C.Board mounting face

9
3.5
2.5
2.5 2.5

1
1
1.2
5.7
6.7

Mounting Hole Dimensions

Unit: mm

12.2
9.8
6
ø1.6 (hole)
4-ø1.3 (hole)
2-ø1.5 (hole)
ø1.1 (hole)
5.7
6.7
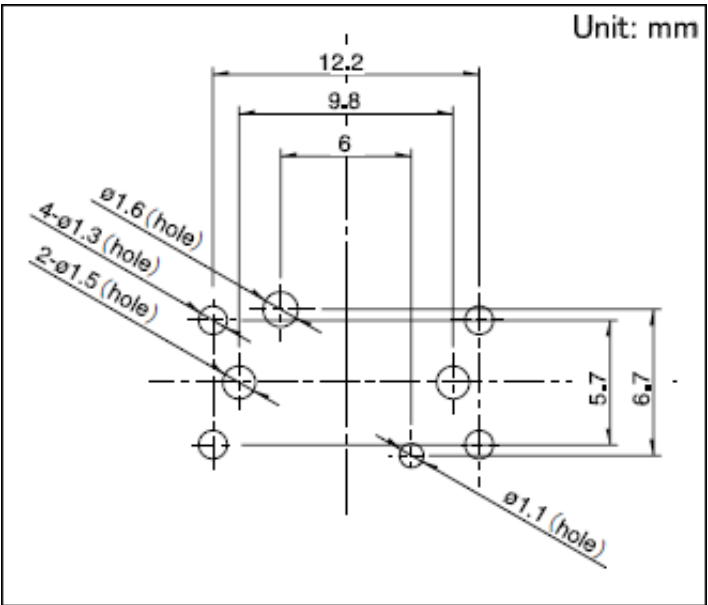
Circuit Diagram
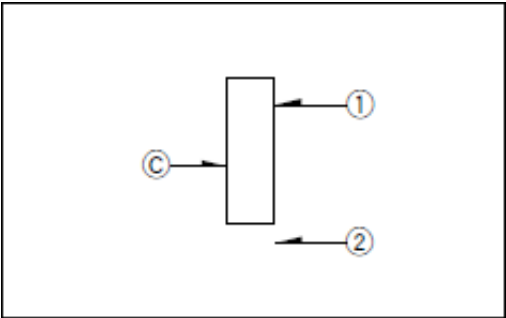
Viewed from direction A in the dimensions.

Packing Specifications

Bulk

Number of packages (pcs.)	1 case / Japan	1,050
	1 case / export packing	4,200
Export package measurements (mm)	540×360×230	

Soldering Conditions

Reference for Dip Soldering

Items	Preheating temperature	-
	Preheating time	-
Dip soldering	Soldering temperature	260±5℃

Duration of immersion	10±1s

Reference for Hand Soldering

Soldering temperature	350±10℃
Soldering time	3s max.

Notes are common to this series/models.

1. This site 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.