

PS-12G Series Pushbutton Switches



A
Pushbutton

Features/Benefits

- Latching pushbutton
- Non-shorting with lock
- 5 mm travel
- SPDT

Typical Applications

- Automotive interior lighting
- Computer peripherals
- Appliances



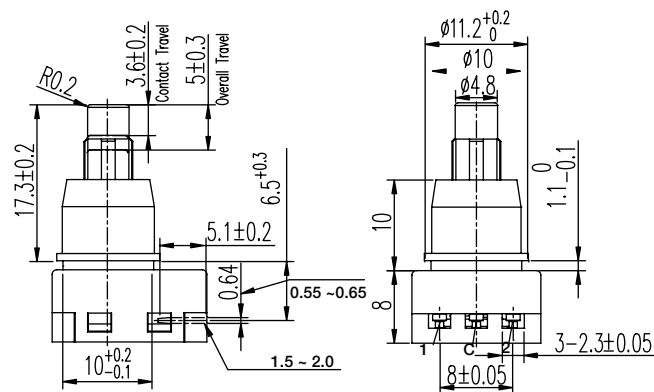
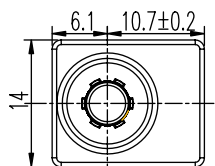
How To Order

Part number list is shown below. For individual part details, please refer to the following pages.

Part Number (Part Description)	Product Details
PS-12G01	SPDT, non-shorting with lock, 1A @ 14 VDC, white actuator
PS-12G03	SPDT, non-shorting with lock, 2.2A @ 14.5 VDC, black actuator



PART NUMBER	PACKAGING	SCHEMATIC
PS-12G01	200 pieces	



Dimensions

WIDTH X DEPTH: 14 x 16.8 mm

HEIGHT: 18 mm

Specifications

CONTACT RATING: 1A @ 14 VDC

INITIAL CONTACT RESISTANCE: 100 m ohms max.

INSULATION RESISTANCE: 100 M ohms min.

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.

OPERATING LIFE: 20,000 cycles with load

OPERATING FORCE: 400 ± 100 gf

OPERATING POSITION: 3.6 ± 0.2 mm

TOTAL TRAVEL: 5 ± 0.3 mm

OPERATING TEMPERATURE: -20°C to 70°C

Materials

KNOB: POM (UL 94HB)

HOUSING: PBT (UL 94V-0)

COVER: PBT (UL 94V-0)

ROTOR: PBT (UL 94V-0)

SLIDER: POM (UL 94HB)

TERMINAL: Phosphor bronze, silver plated

SPRING: Stainless steel

CONTACT: Phosphor bronze, silver plated



PS-12G Series Pushbutton Switches

Pushbutton
A



PART NUMBER	PACKAGING	SCHEMATIC
PS-12G03	200 pieces	

Dimensions

WIDTH X DEPTH: 14 x 16.8 mm

HEIGHT: 18.3 mm

Specifications

CONTACT RATING: 2.2A @ 14.5 VDC

INITIAL CONTACT RESISTANCE: 50 m ohms max.

INSULATION RESISTANCE: 100 M ohms min.

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.

OPERATING LIFE: 20,000 cycles with load

OPERATING FORCE: 650 ± 300 gf

OPERATING POSITION: 4.00 ± 0.2 mm

TOTAL TRAVEL: 4.5 ± 0.3 mm

OPERATING TEMPERATURE: -40°C to 85°C

Materials

KNOB: POM (UL 94HB)

HOUSING: PBT & PA (UL 94V-0)

COVER: PBT (UL 94V-0)

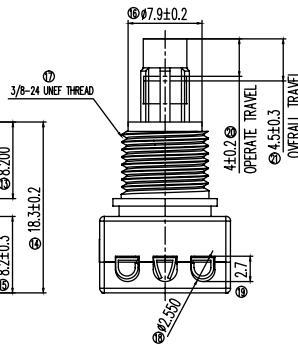
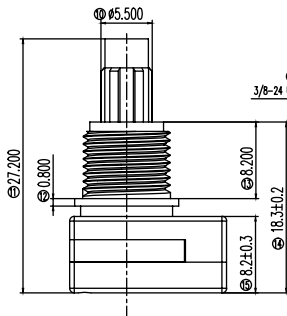
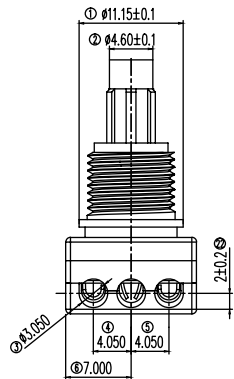
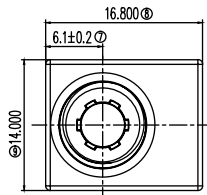
ROTOR: PBT (UL 94V-0)

SLIDER: POM (UL 94HB)

TERMINAL: Brass, silver plated

SPRING: Stainless steel

CONTACT: Phosphor bronze, silver plated



TYCO .062 Commercial Pin
and Socket Connector
PT# 770983-1

PS-22 Series Subminiature Pushbutton Switches



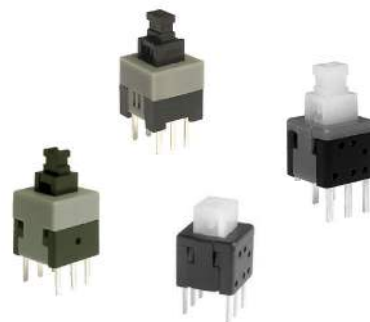
A
Pushbutton

Features/Benefits

- Compact miniature push switch
- Momentary or latching options
- Shorting or non-shorting
- DPDT

Typical Applications

- Industrial
- Automotive
- Audio and visual equipment



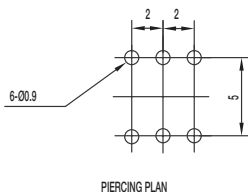
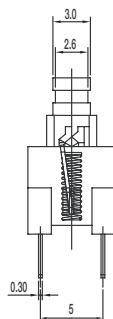
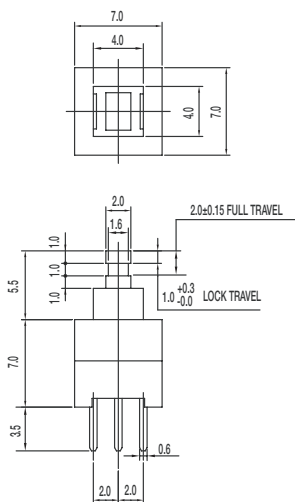
How To Order

Part number list is shown below. For individual part details, please refer to the following pages.

Part Number (Part Description)	Product Details	Part Number (Part Description)	Product Details
PS-2203-L NS PA	DPDT, non-shorting, lock, dim: 7.0*7.0*12.5 mm	PS-2214-L NS PA	DPDT, non-shorting, lock, dim: 5.8*5.8*7.5 mm
PS-2203-F NS PA	DPDT, non-shorting, mom, dim: 7.0*7.0*12.5 mm	PS-2214-F NS PA	DPDT, non-shorting, mom, dim: 5.8*5.8*7.5 mm
PS-2206-F NS	DPDT, non-shorting, mom, dim: 8.0*8.0*12.5 mm	PS-221605-L NS	DPDT, non-shorting, lock, dim: 5.8*5.8*10.0 mm



PART NUMBER	PACKAGING	SCHEMATIC
PS-2203-L NS PA	1,000 pieces	
PS-2203-F NS PA	1,000 pieces	



Dimensions

WIDTH X DEPTH: 7.0 x 7.0 mm

HEIGHT: 12.5 mm

Specifications

CONTACT RATING: 0.1A @ 30 VDC

INITIAL CONTACT RESISTANCE: 30 m ohms max.

INSULATION RESISTANCE: 100 M ohms min.

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.

OPERATING LIFE: 10,000 cycles with load

OPERATING FORCE:

200 ± 100 gf (1.96 ± 0.98N)

LOCK TRAVEL: 1 mm

TOTAL TRAVEL: 2 mm

OPERATING TEMPERATURE: -20°C to 70°C

Materials

KNOB: POM Black

HOUSING: PA Black

COVER: POM Grey (latch) / White (Mom)

TERMINAL: Brass, silver plated

CONTACT CLIP: Phosphor bronze., silver plated

SPRING: Stainless steel

HOOK LOCK: Stainless steel (latch)



PS-22 Series Subminiature Pushbutton Switches

Pushbutton
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PART NUMBER	PACKAGING	SCHEMATIC
PS-2206-F NS	1,000 pieces	

Dimensions

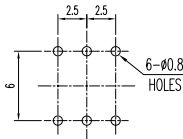
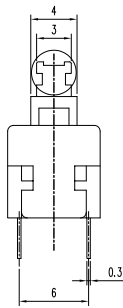
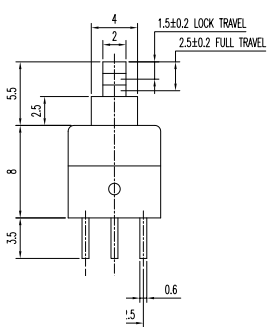
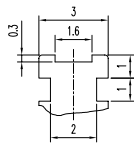
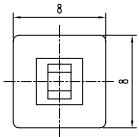
WIDTH X DEPTH: 8.0 x 8.0 mm
HEIGHT: 13.5 mm

Specifications

CONTACT RATING: 0.1A @ 30 VDC
INITIAL CONTACT RESISTANCE: 70 m ohms max.
INSULATION RESISTANCE: 100 M ohms min.
DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.
OPERATING LIFE: 10,000 cycles with load
OPERATING FORCE:
200 ± 100 gf (1.96 ± 0.98N)
LOCK TRAVEL: 1.5 mm
TOTAL TRAVEL: 2.5 mm
OPERATING TEMPERATURE: -20°C to 70°C

Materials

KNOB: POM Black
HOUSING: PBT Black
COVER: POM Grey (latch) / White (Mom)
TERMINAL: Brass, silver plated
CONTACT CLIP: Phosphor bronze., silver plated
SPRING: Stainless steel
HOOK LOCK: Stainless steel (latch)



PART NUMBER	PACKAGING	SCHEMATIC
PS-2214-L NS PA	1,000 pieces	
PS-2214-F NS PA	1,000 pieces	

Dimensions

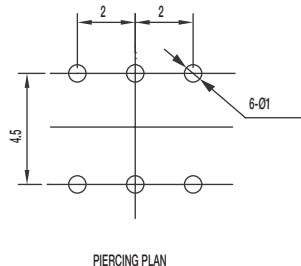
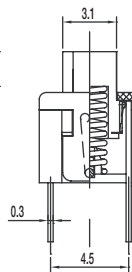
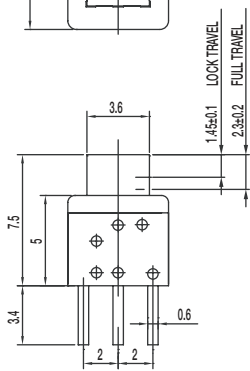
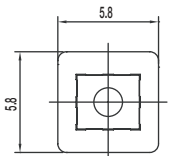
WIDTH X DEPTH: 5.8 x 5.8 mm
HEIGHT: 7.5 mm

Specifications

CONTACT RATING: 0.1A @ 30 VDC
INITIAL CONTACT RESISTANCE: 80 m ohms max.
INSULATION RESISTANCE: 100 M ohms min.
DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.
OPERATING LIFE: 10,000 cycles with load
OPERATING FORCE:
150 ± 50 gf (1.47 ± 0.49N)
LOCK TRAVEL: 1.45 mm
TOTAL TRAVEL: 2.3 mm
OPERATING TEMPERATURE: -20°C to 70°C

Materials

KNOB: POM Natural (latch) / PA black
HOUSING: PA Black
COVER: PA Black
TERMINAL: Brass, silver plated
CONTACT CLIP: Phosphor bronze, silver clad
SPRING: Stainless steel
HOOK LOCK: Stainless steel (latch)



PS-22 Series Subminiature Pushbutton Switches



A
Pushbutton



PART NUMBER	PACKAGING	SCHEMATIC
PS-221605-L NS	1,000 pieces	

Dimensions

WIDTH X DEPTH: 5.8 x 5.8 mm

HEIGHT: 10 mm

Specifications

CONTACT RATING: 0.1A @ 30 VDC / 2A @ 2 VDC

INITIAL CONTACT RESISTANCE: 80 m ohms max.

INSULATION RESISTANCE: 100 M ohms min.

DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.

OPERATING LIFE: 10,000 cycles with load

OPERATING FORCE:

150 ± 50 gf (1.47 ± 0.49N)

LOCK TRAVEL: 1.3 mm

TOTAL TRAVEL: 2.1 mm

OPERATING TEMPERATURE: -20°C to 70°C

Materials

KNOB: POM Natural

HOUSING: PA Black

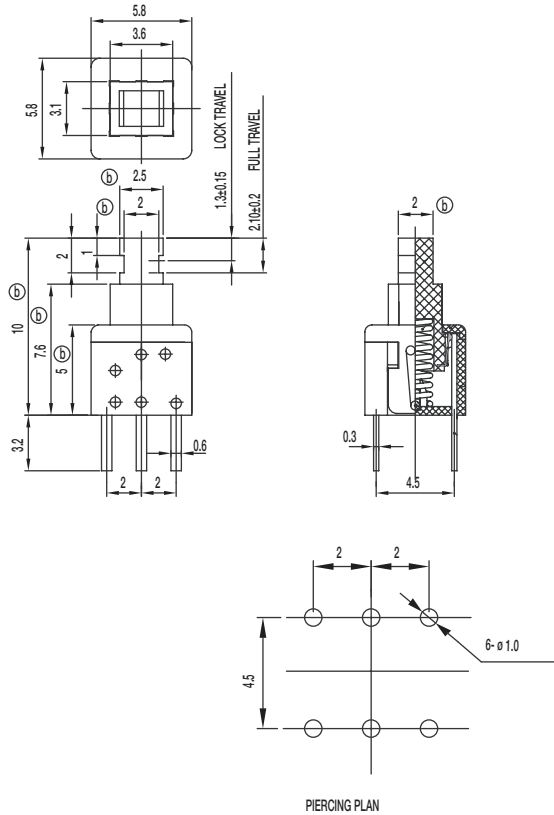
COVER: PC Grey

TERMINAL: Bras, silver plated

CONTACT CLIP: Phosphor bronze, silver clad

SPRING: Stainless steel

HOOK LOCK: Stainless steel (latch)





PS Series Miniature Pushbutton Switches

Pushbutton
A



Features/Benefits

- Miniature size
- Momentary or latching options
- Broad range of products

Typical Applications

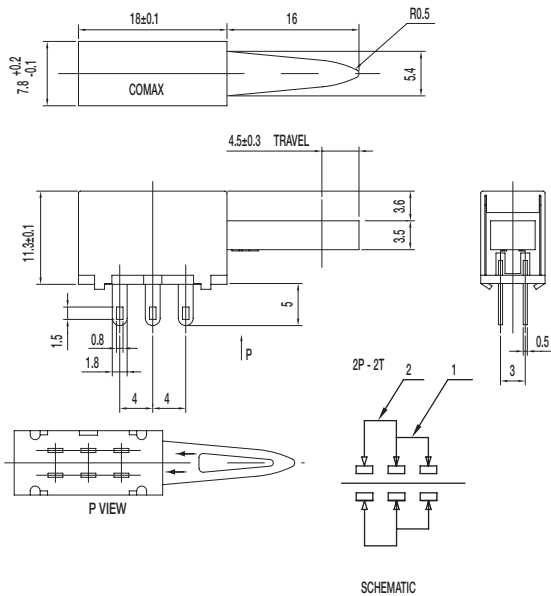
- Industrial
- Automotive
- Audio and visual equipment
- Telecommunications

How To Order

Part number list is shown below. For individual part details, please refer to the following.

Part Number (Part Description)	Product Details
PS-22105	DPDT, non-shorting, RT angle with metal frame

PS-22105 DPDT NON-SHORTING



Specifications

- CONTACT RATING: 0.3A @ 30 VDC
 INITIAL CONTACT RESISTANCE: 30 m ohms max.
 INSULATION RESISTANCE: 100 M ohms min.
 DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.
 OPERATING LIFE: 10,000 cycles with load
 OPERATING FORCE: 400 ± 150 gf (3.92 ± 1.47N)
 TOTAL TRAVEL: 4.5 ± 0.3 mm
 OPERATING TEMPERATURE: -20°C to 70°C

Materials

- FRAME: SECC
 KNOB: POM (UL 94HB)
 CONTACT PLATE: Silver clad
 SPRING: SUS
 TERMINAL: Silver plated

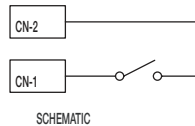
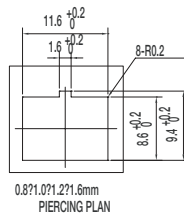
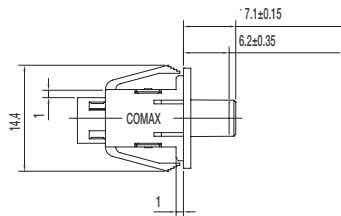
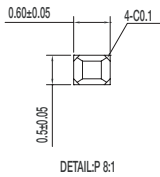
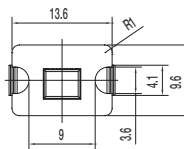
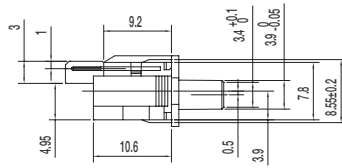
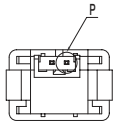
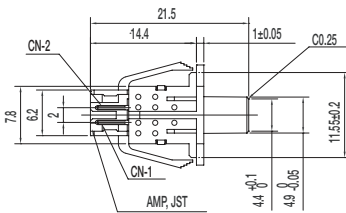


How To Order

Part number list is shown below. For individual part details, please refer to the following pages.

Part Number (Part Description)	Product Details
PS-12C02-F NS	SPST non-shorting, mom
PS-32C02-F NS	1P3T non-shorting, mom, pitch: 7.2 mm
PS-42C02-F NS	1P4T non-shorting, mom, pitch: 7.2 mm

PS-12C02-F NS SPST NON-SHORTING



Specifications

CONTACT RATING: 100 μ A @ 3 VDC min. / 10mA @ 5 VDC max
 INITIAL CONTACT RESISTANCE: 100 m ohms max.
 INSULATION RESISTANCE: 100 M ohms min.
 DIELECTRIC STRENGTH: 250 V AC (50-60 Hz) between open terminals and between the frame and terminal.
 OPERATING LIFE: 100,000 cycles with load
 OPERATING FORCE: 50 \pm 15 gf (0.49 \pm 0.147N)
 PRE-TRAVEL: 6.20 \pm 0.35 mm
 OPERATING TEMPERATURE: -40°C to 85°C

Materials

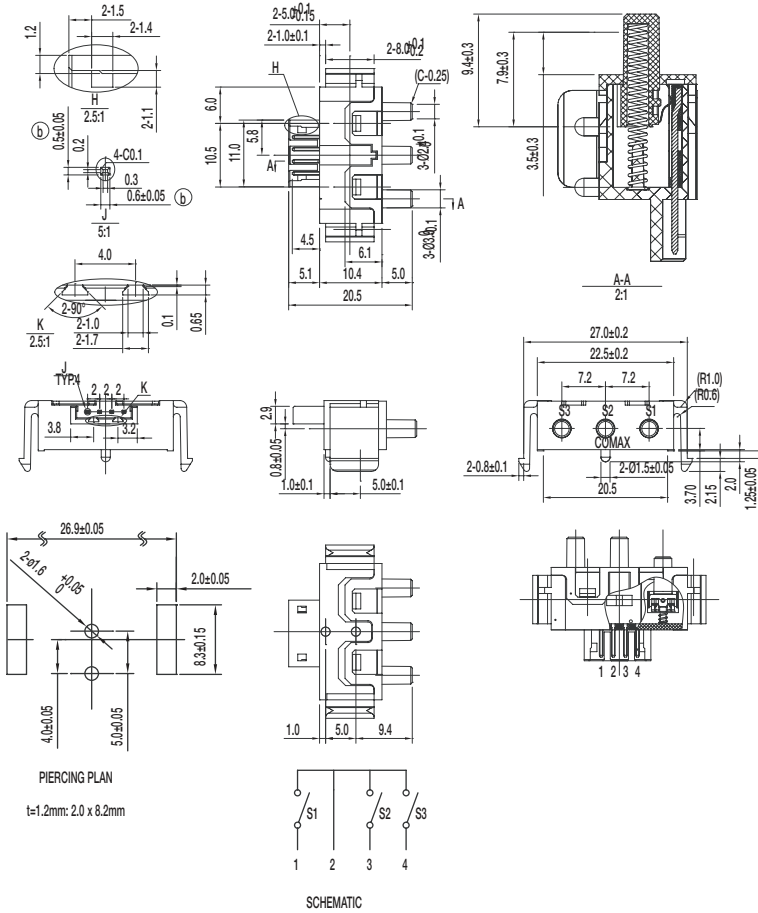
KNOB: POM (UL 94HB)
 COVER: PA (UL 94V-0)
 HOUSING: PA (UL 94V-0)
 SPRING: SUS
 TERMINAL: Silver plated



PS Series Miniature Pushbutton Switches

Pushbutton

PS-32C02-F NS 1P3T NON-SHORTING



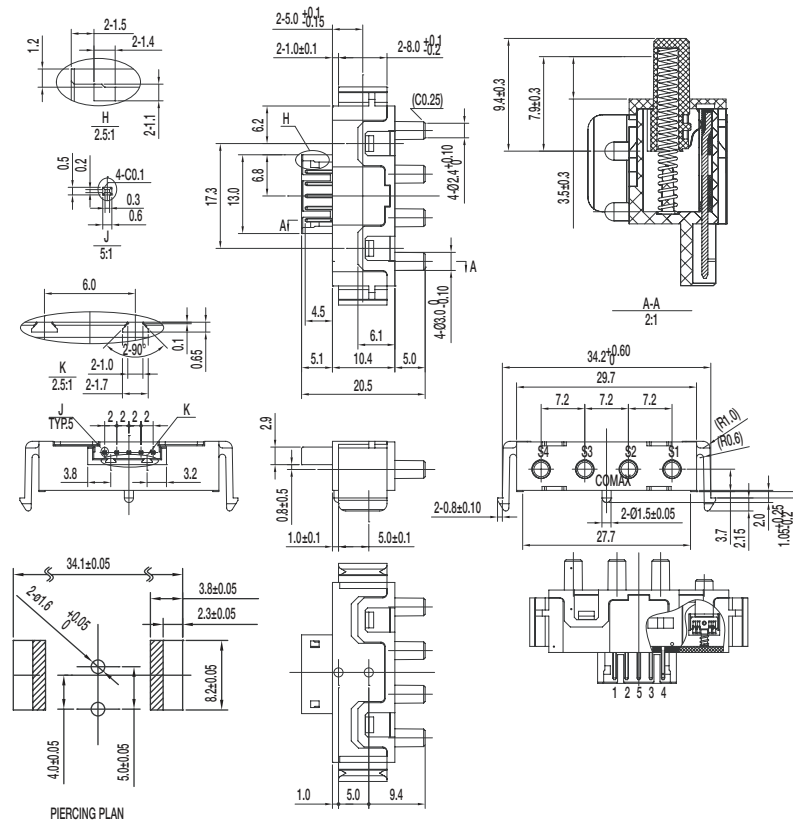
Specifications

- CONTACT RATING: 100 μ A @ 3 VDC min. / 10mA @ 5 VDC max
- INITIAL CONTACT RESISTANCE: 100 m ohms max.
- INSULATION RESISTANCE: 100 M ohms min.
- DIELECTRIC STRENGTH: 250 V AC (50-60 Hz) between open terminals and between the frame and terminal.
- OPERATING LIFE: 100,000 cycles with load
- OPERATING FORCE: 80 \pm 20 gf (0.784 \pm 0.196N)
- PRE-TRAVEL: 1.5 \pm 0.3 mm
- OVER-TRAVEL: 3.5 \pm 0.3 mm
- TOTAL TRAVEL: 5 \pm 0.3 mm
- OPERATING TEMPERATURE: -20°C to 65°C

Materials

- KNOB: POM (UL 94HB)
- COVER: PA (UL 94V-0)
- HOUSING: PA (UL 94V-0)
- SPRING: SUS
- TERMINAL: Silver plated

PS-42C02-F NS 1P4T NON-SHORTING



Specifications

- CONTACT RATING: 100 μ A @ 3 VDC min. / 10mA @ 5 VDC max
- INITIAL CONTACT RESISTANCE: 100 m ohms max.
- INSULATION RESISTANCE: 100 M ohms min.
- DIELECTRIC STRENGTH: 250 V AC (50-60 Hz) between open terminals and between the frame and terminal.
- OPERATING LIFE: 100,000 cycles with load
- OPERATING FORCE: 80 \pm 20 gf (0.784 \pm 0.196N)
- PRE-TRAVEL: 1.5 \pm 0.3 mm
- OVER-TRAVEL: 3.5 \pm 0.3 mm
- TOTAL TRAVEL: 5 \pm 0.3 mm
- OPERATING TEMPERATURE: -20°C to 65°C

Materials

- KNOB: POM (UL 94HB)
- COVER: PA (UL 94V-0)
- HOUSING: PA (UL 94V-0)
- SPRING: SUS
- TERMINAL: Silver plated

Dimensions are shown: mm
Specifications and dimensions subject to change