

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



PART NUMBER	PACKAGING	SCHEMATIC
PS-12G01	200 pieces	

Dimensions

FOOTPRINT: 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)

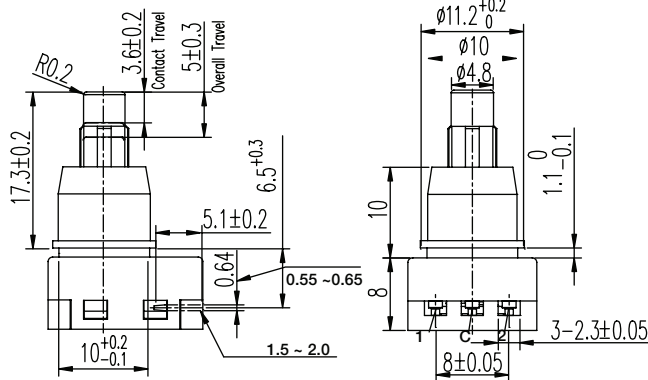
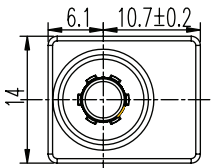
ROTOR: PBT (UL 94V-0)

SLIDER: POM (UL 94HB)

TERMINAL: Phosphor bronze, silver plated

SPRING: Stainless steel

CONTACT: Phosphor bronze, silver plated





PS-12G Series Pushbutton Switches

A

Pushbutton



PART NUMBER	PACKAGING	SCHEMATIC
PS-12G03	200 pieces	

Dimensions

FOOTPRINT: 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)

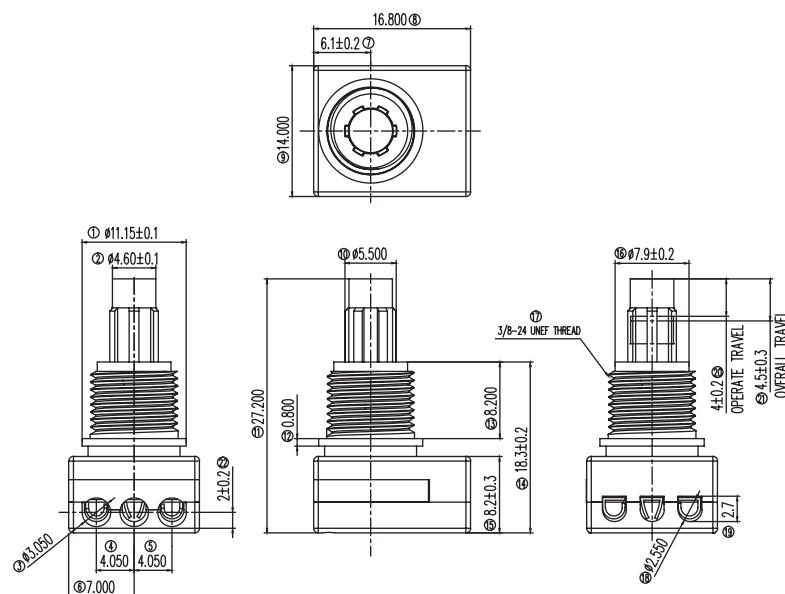
ROTOR: PBT (UL 94V-0)

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



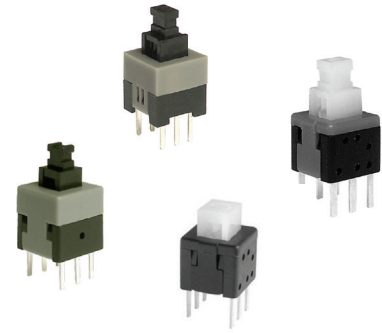
A
Pushbutton

Features/Benefits

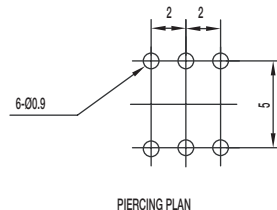
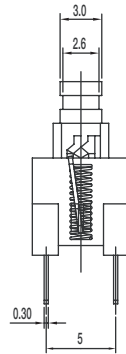
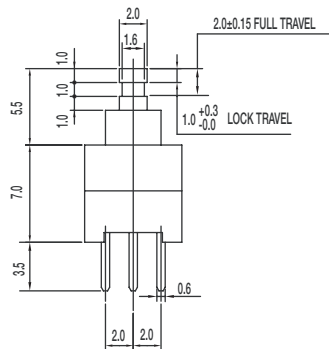
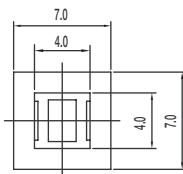
- Compact miniature push switch
- Momentary or latching options
- Shorting or non-shorting
- DPDT

Typical Applications

- Industrial
- Automotive
- Audio and visual equipment



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



Dimensions

FOOTPRINT: 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

A

Pushbutton



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

Dimensions

FOOTPRINT: 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: 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)



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

Dimensions

FOOTPRINT: 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

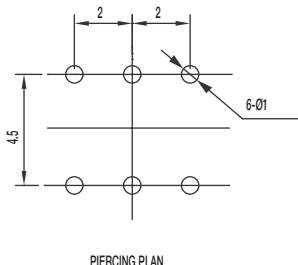
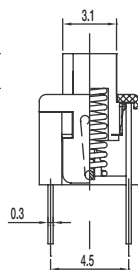
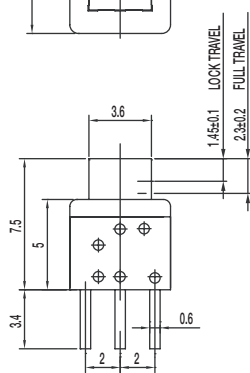
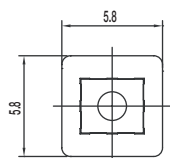
COVER: PA Black

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	
PS-221605-F NS	1,000 pieces	

Dimensions

FOOTPRINT: 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

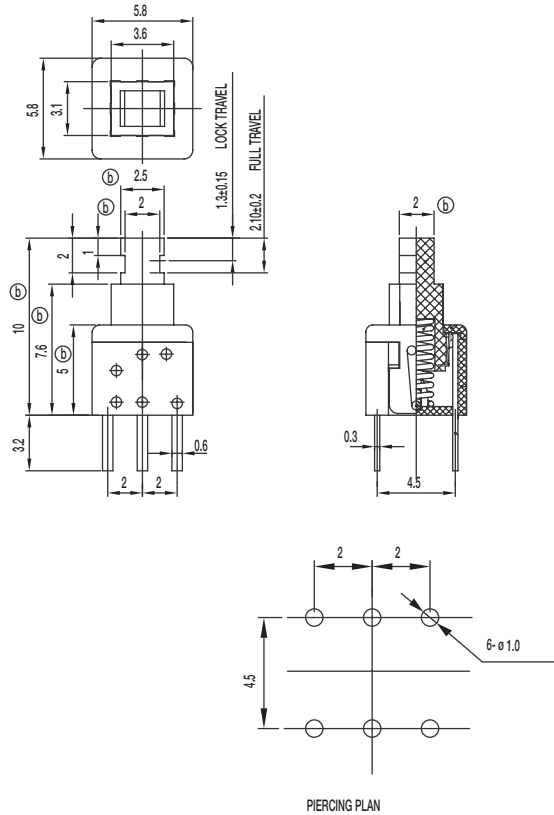
COVER: PC Grey

TERMINAL: Bras, silver plated

CONTACT CLIP: Phosphor bronze, silver clad

SPRING: Stainless steel

HOOK LOCK: Stainless steel (latch)

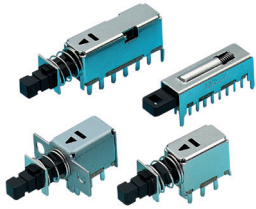




PS Series Miniature Pushbutton Switches

A

Pushbutton



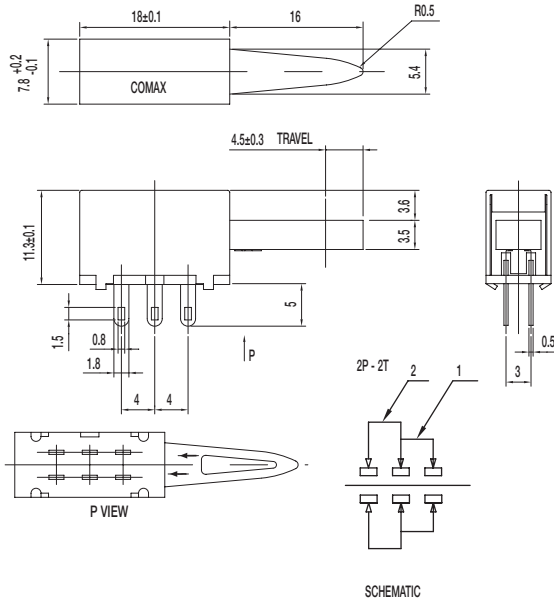
Features/Benefits

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

Typical Applications

- Industrial
- Automotive
- Audio and visual equipment
- Telecommunications

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

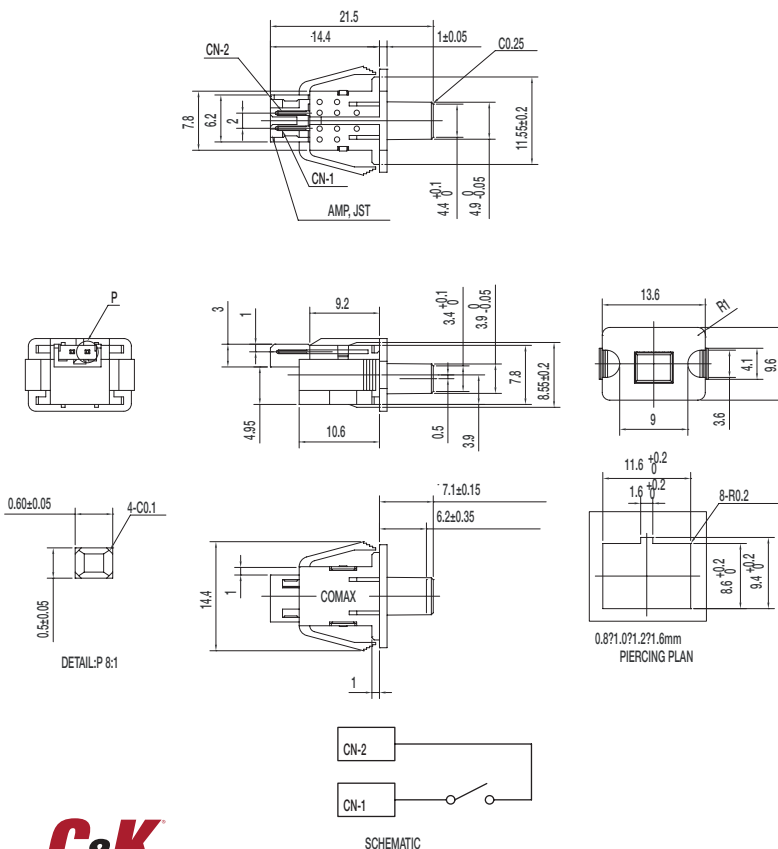
KNOB: POM (UL 94HB)

CONTACT PLATE: Silver clad

SPRING: SUS

TERMINAL: Silver plated

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 ± 15 gf (0.49 ± 0.147N)

PRE-TRAVEL: 6.20 ± 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



Dimensions are shown: mm
Specifications and dimensions subject to change

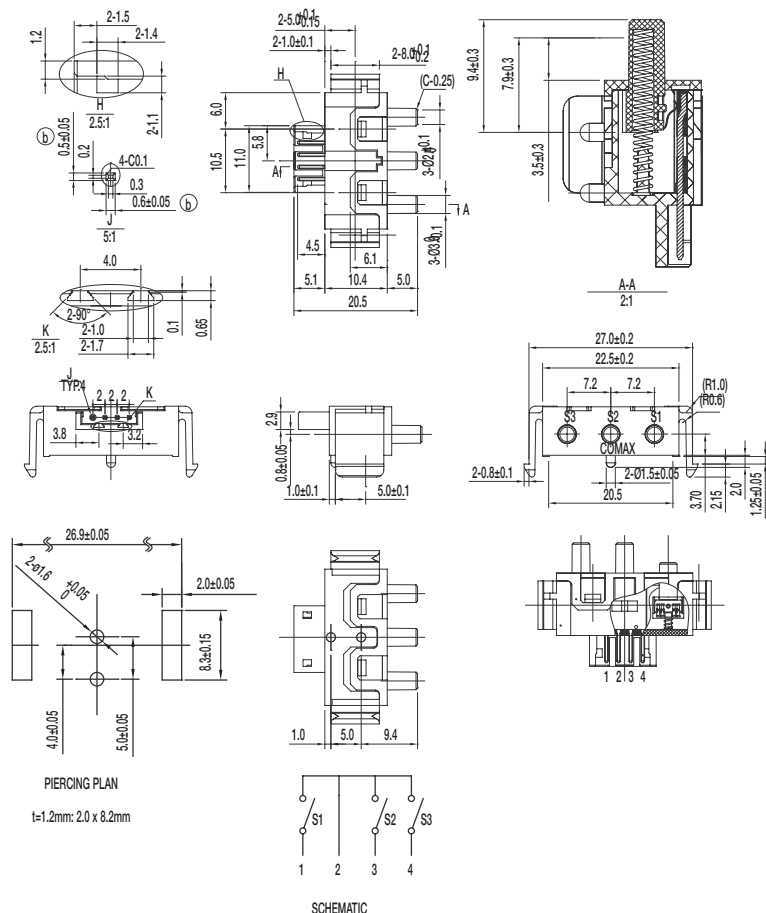
PS Series Miniature Pushbutton Switches



A

Pushbutton

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



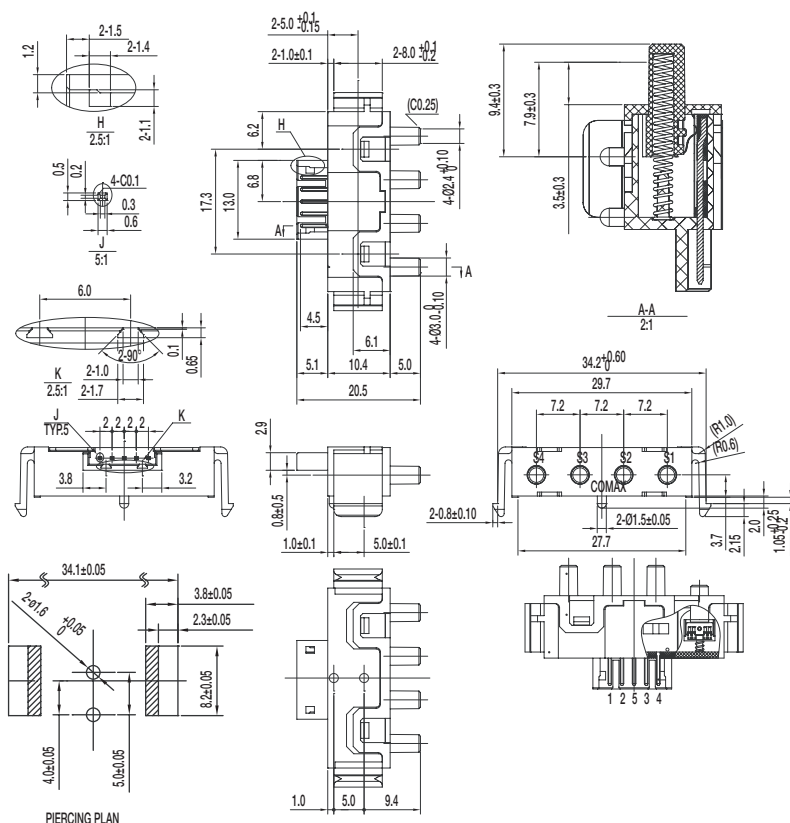
Specifications

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

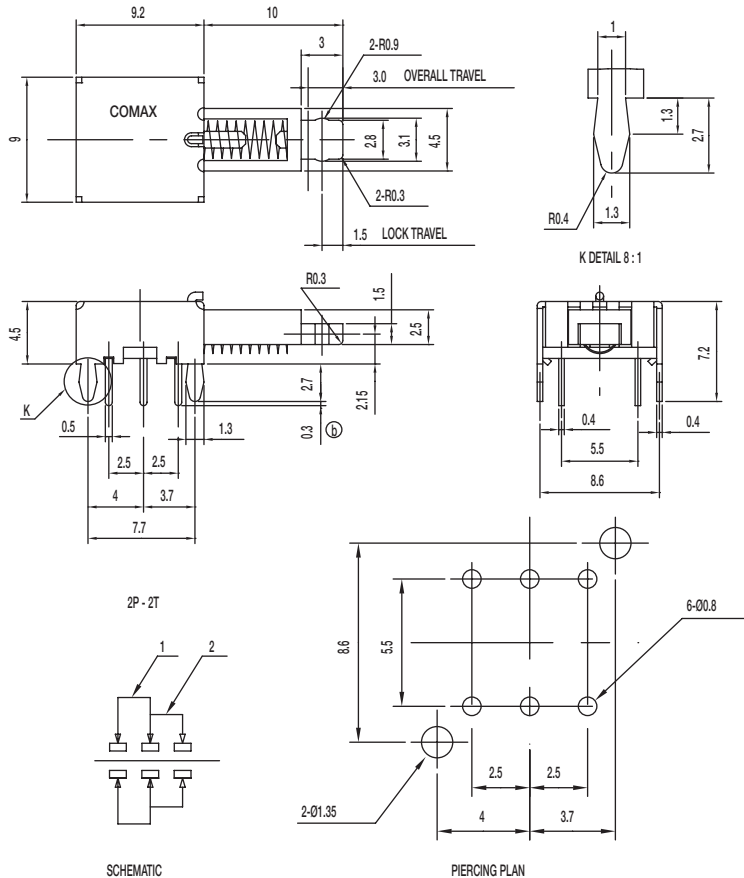
Dimensions are shown: mm
Specifications and dimensions subject to change



PS Series Miniature Pushbutton Switches

Pushbutton
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PS-22C08-G10 NS DPDT NON-SHORTING



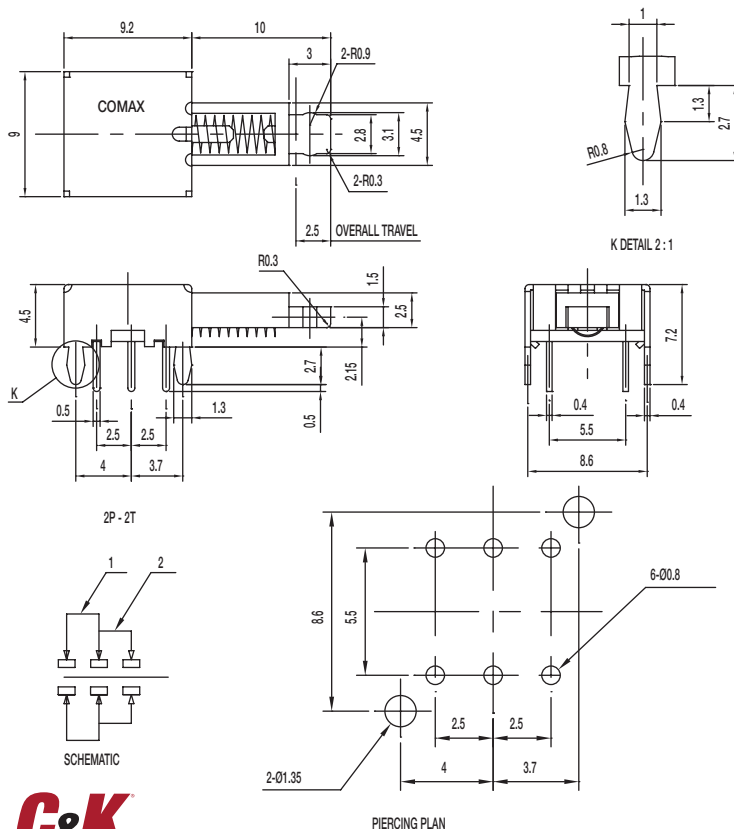
Specifications

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 without load
 OPERATING FORCE: 200 ± 100 gf (1.96 ± 0.98 N)
 LOCK TRAVEL: 1.5 ± 0.3 mm
 OVER-TRAVEL: 3 ± 0.3 mm
 OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
 KNOB: POM (UL 94HB)
 CONTACT: Silver plated
 SPRING: SUS
 TERMINAL: Silver plated

PS-22E08-G10 NS DPDT NON-SHORTING



Specifications

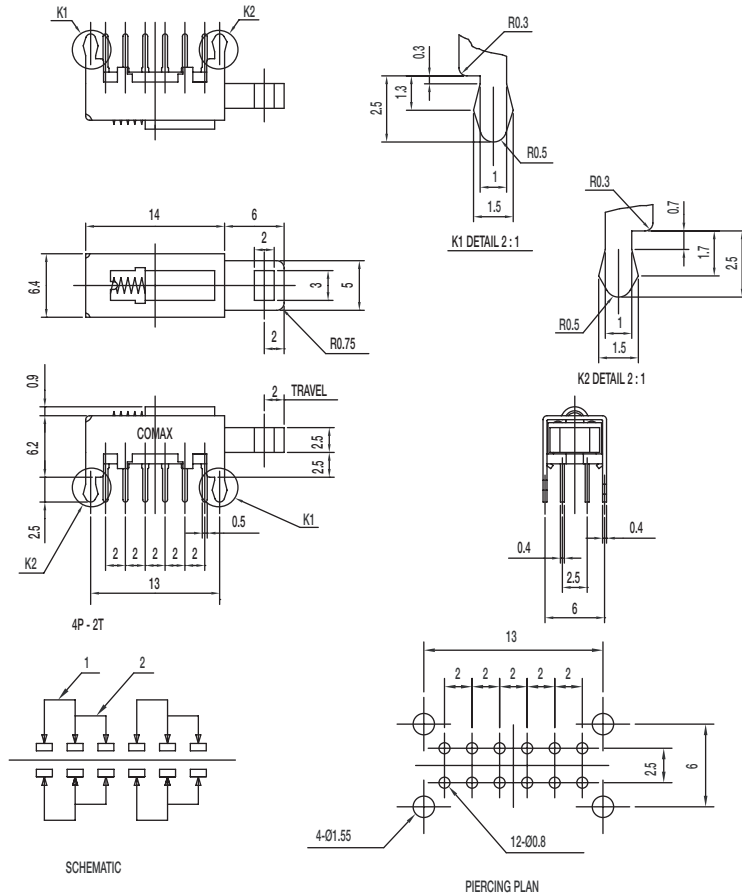
CONTACT RATING: 0.3A @ 30 VDC
 INITIAL CONTACT RESISTANCE: 30 m ohms max.
 INSULATION RESISTANCE: 100 M ohms min.
 DIELECTRIC STRENGTH: 500 V AC (50-60 Hz) between open terminals and between the frame and terminal.
 OPERATING LIFE: 10,000 cycles without load
 OPERATING FORCE: 200 ± 100 gf (1.96 ± 0.98 N)
 TOTAL TRAVEL: 2.5 ± 0.3 mm
 OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
 KNOB: POM (UL 94HB)
 CONTACT: Silver plated
 SPRING: SUS
 TERMINAL: Silver plated

PS Series Miniature Pushbutton Switches

PS-42D13-NS 4P2T 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: 250 ± 100 gf (2.45 ± 0.98 N)

TRAVEL: 2 ± 0.3 mm

OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC

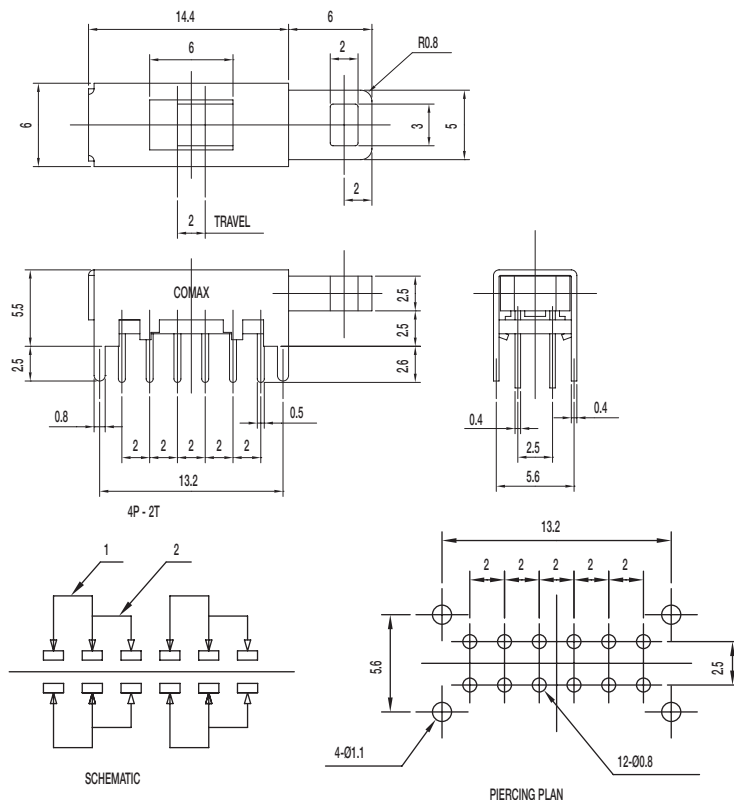
Knob: POM (UL 94HB)

CONTACT: Silver plated

SPRING: Steel

TERMINAL: Silver plated

PS-42D16-S 4P2T 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: 60 ± 30 gf (0.59 ± 0.29 N)

TRAVEL: 2 ± 0.3 mm

OPERATING TEMPERATURE: -20°C to 70°C

Materials

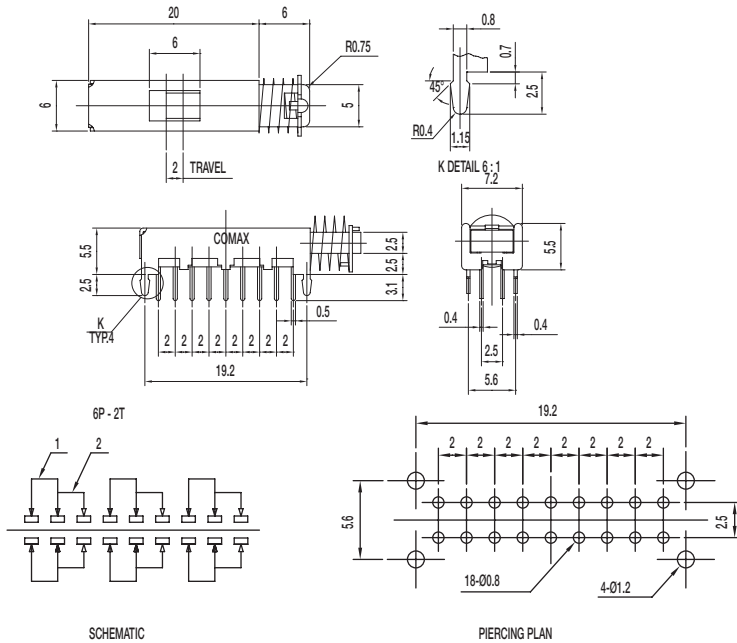
FRAME: SPCC

Knob: POM (UL 94HB)

CONTACT: Silver plated

TERMINAL: Silver plated

PS-62D10-S 6P2T SHORTING



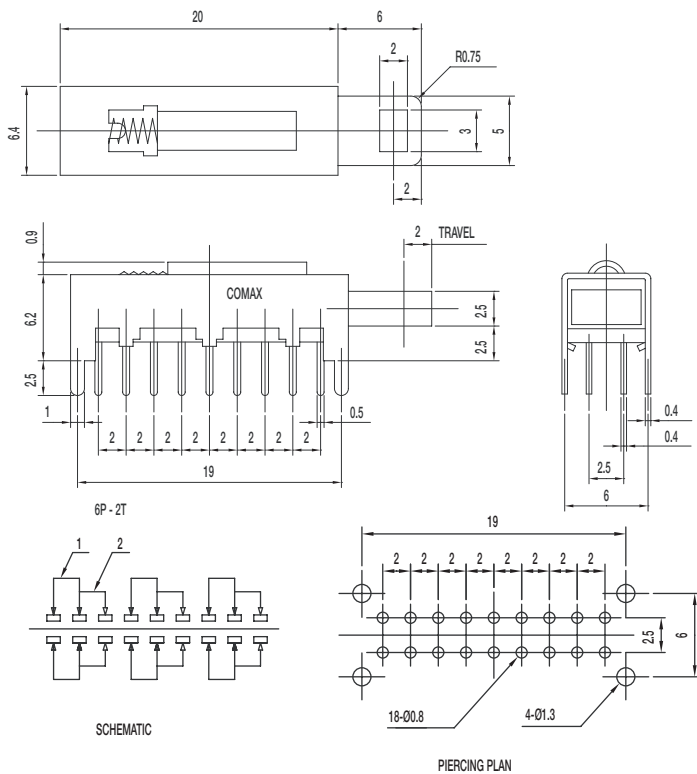
Specifications

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: 250 ± 100 gf (2.45 ± 0.98 N)
 TRAVEL: 2 ± 0.3 mm
 OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
 KNOB: POM (UL 94HB)
 CONTACT: Silver plated
 SPRING: Steel
 TERMINAL: Silver plated

PS-62D13-S 6P2T 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: 300 ± 100 gf (2.94 ± 0.98 N)
 TRAVEL: 2 ± 0.3 mm
 OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
 KNOB: POM (UL 94HB)
 CONTACT PLATE: Silver plated
 SPRING: Steel
 TERMINAL: SUS



A

Pushbutton



SCHEMATIC

PIERCING PLAN

DPDT SHORTING WITH LOCK



SCHEMATIC

PIERCING PLAN

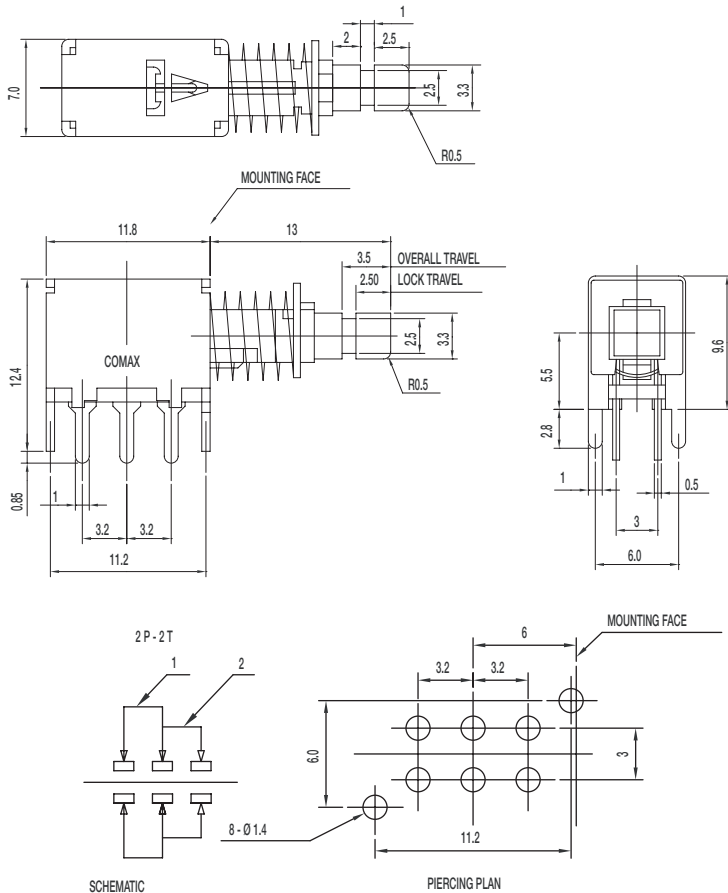
TERMINAL: Silver plated

PS Series Miniature Pushbutton Switches



A
Pushbutton

PS-22E04-G13 NS DPDT NON-SHORTING WITH LOCK



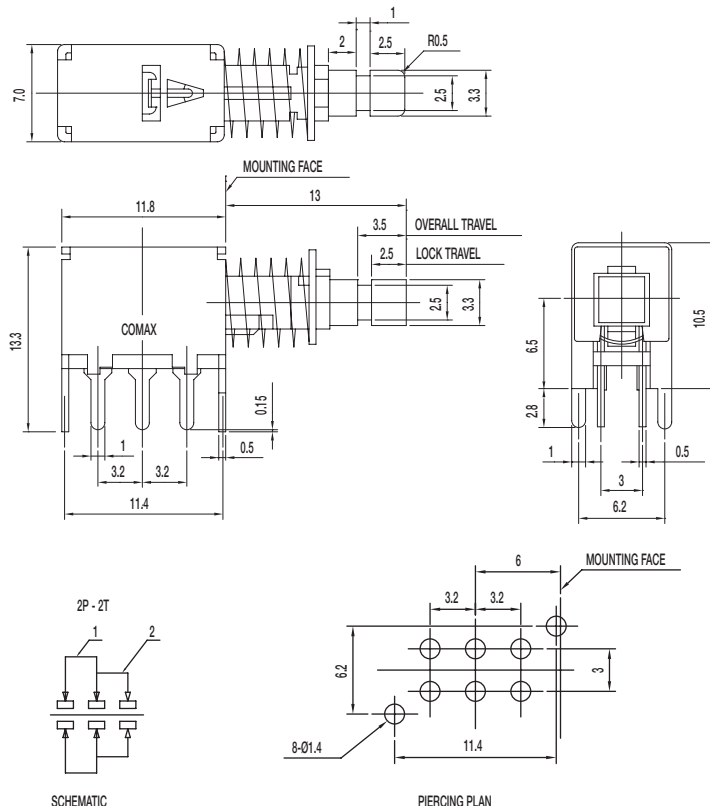
Specifications

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: 300 ± 100 gf (2.94 ± 0.98 N)
LOCK TRAVEL: 2.5 ± 0.3 mm
TOTAL TRAVEL: 3.5 ± 0.3 mm
OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
KNOB: POM (UL 94HB)
CONTACT: Silver plated
SPRING: Steel
TERMINAL: Silver plated

PS-22E44-G13 NS DPDT NON-SHORTING WITH LOCK



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: 300 ± 100 gf (2.94 ± 0.98 N)
LOCK TRAVEL: 2.5 ± 0.3 mm
TOTAL TRAVEL: 3.5 ± 0.3 mm
OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
KNOB: POM (UL 94HB)
CONTACT: Silver plated
SPRING: Steel
TERMINAL: Silver plated

C&K

Dimensions are shown: mm
Specifications and dimensions subject to change

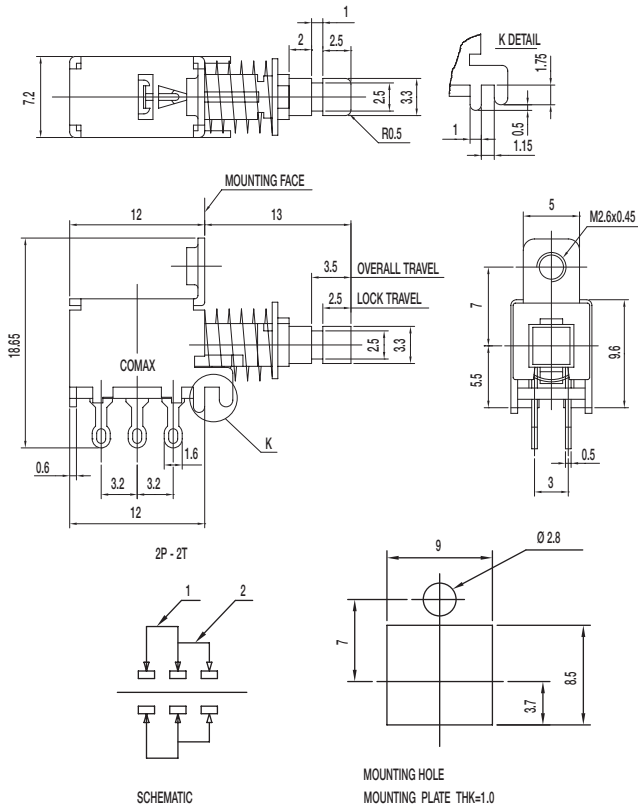


PS Series Miniature Pushbutton Switches

A

Pushbutton

PS-22E75-G13 NS DPDT NON-SHORTING WITH LOCK



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: 300 ± 100 gf (2.94 ± 0.98N)

LOCK TRAVEL: 2.5 ± 0.3 mm

TOTAL TRAVEL: 3.5 ± 0.3 mm

OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC

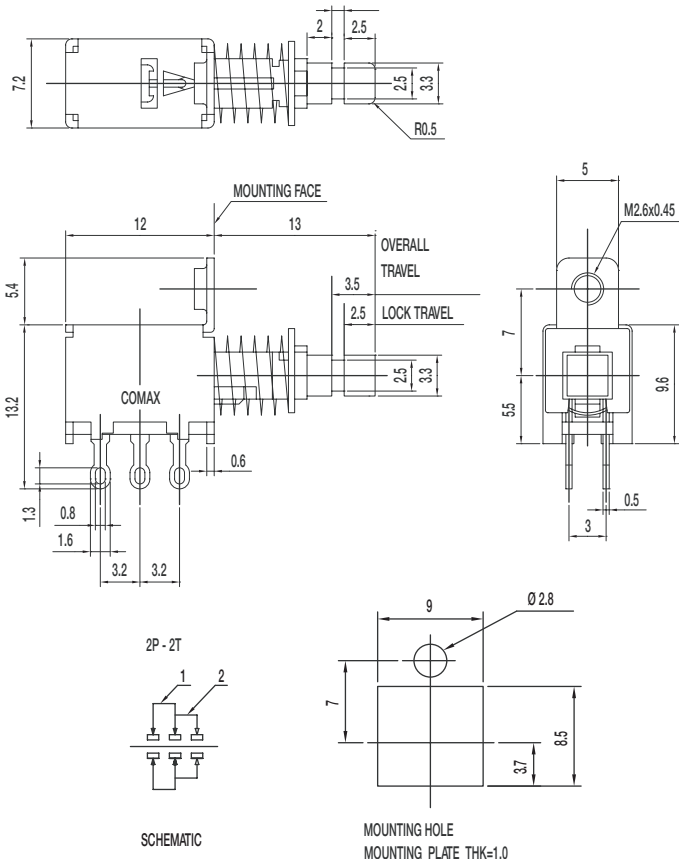
KNOB: POM (UL 94HB)

CONTACT: Silver plated

SPRING: Steel

TERMINAL: Silver plated

PS-22E95-G13 NS DPDT NON-SHORTING WITH LOCK



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: 300 ± 100 gf (2.94 ± 0.98N)

LOCK TRAVEL: 2.5 ± 0.3 mm

TOTAL TRAVEL: 3.5 ± 0.3 mm

OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC

KNOB: POM (UL 94HB)

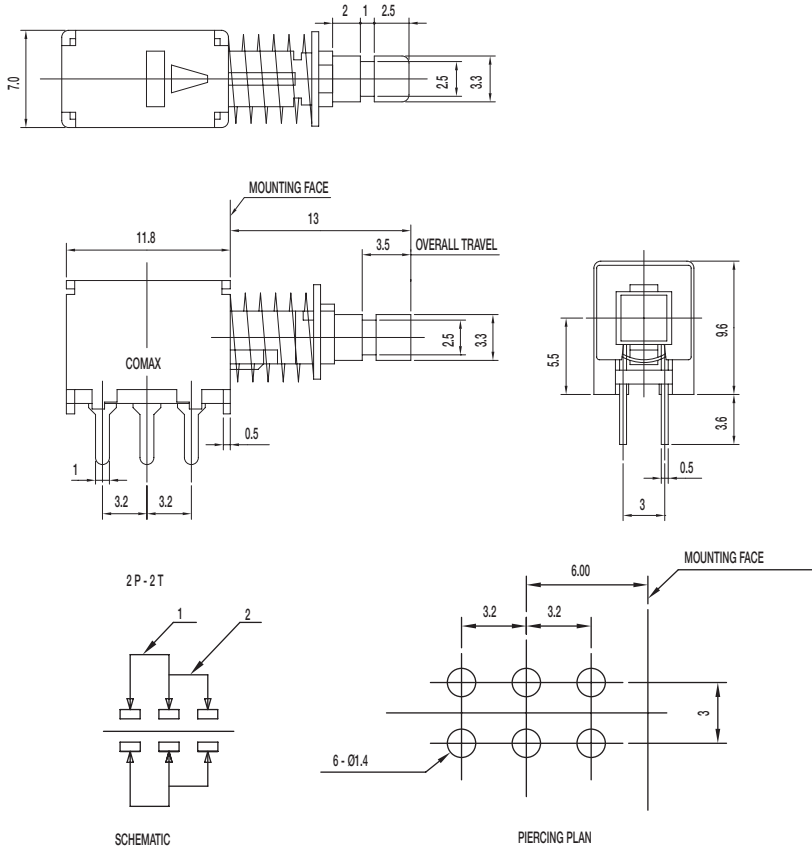
CONTACT: Silver plated

SPRING: Steel

TERMINAL: Silver plated



PS-22F02-G13 S DPDT SHORTING



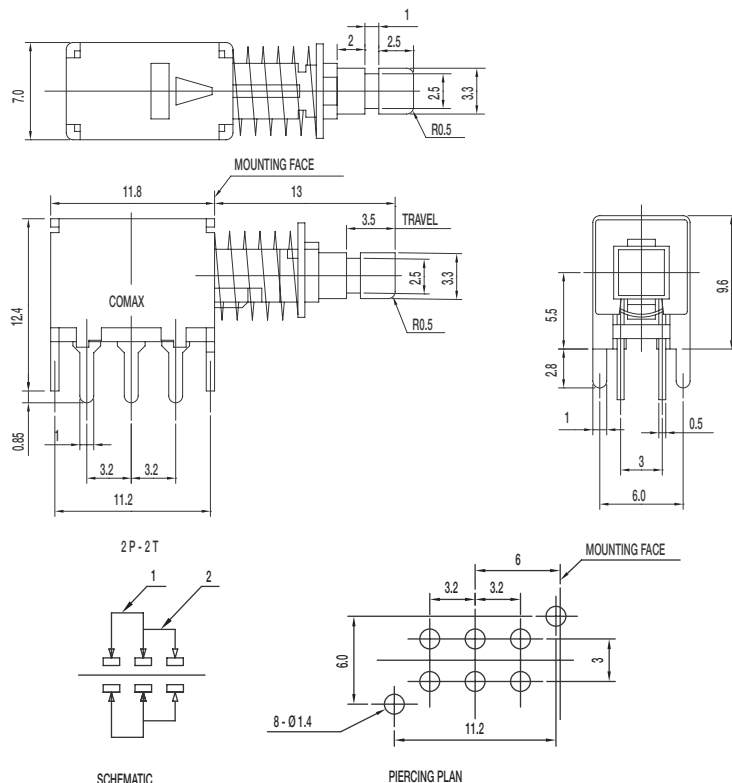
Specifications

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 openterminals and between the frame
 and terminal.
 OPERATING LIFE: 10,000 cycles with load
 OPERATING FORCE: 300 ± 100 gf (2.94 ± 0.98N)
 TOTAL TRAVEL: 3.5 ± 0.3 mm
 OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
 KNOB: POM (UL 94HB)
 CONTACT: Silver plated
 SPRING: Steel
 TERMINAL: Silver plated

PS-22F04-G13 NS 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: 300 ± 100 gf (2.94 ± 0.98N)
 TOTAL TRAVEL: 3.5 ± 0.3 mm
 OPERATING TEMPERATURE: -20°C to 70°C

Materials

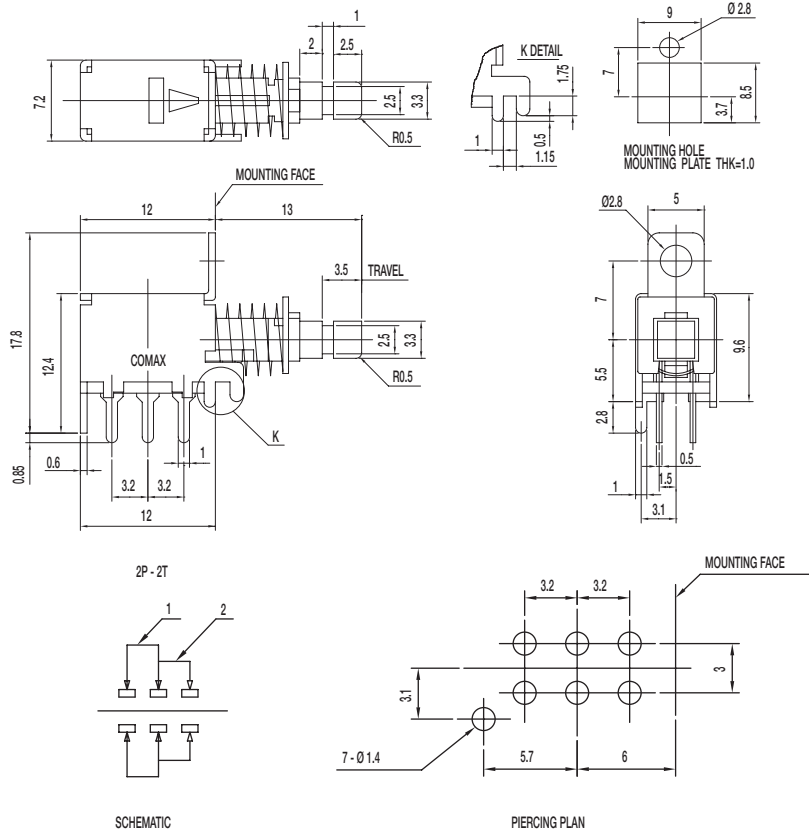
FRAME: SPCC
 KNOB: POM (UL 94HB)
 CONTACT: Silver plated
 SPRING: Steel
 TERMINAL: Silver plated

PS Series Miniature Pushbutton Switches

A

Pushbutton

PS-22F24-G13 NS DPDT NON_SHORTING



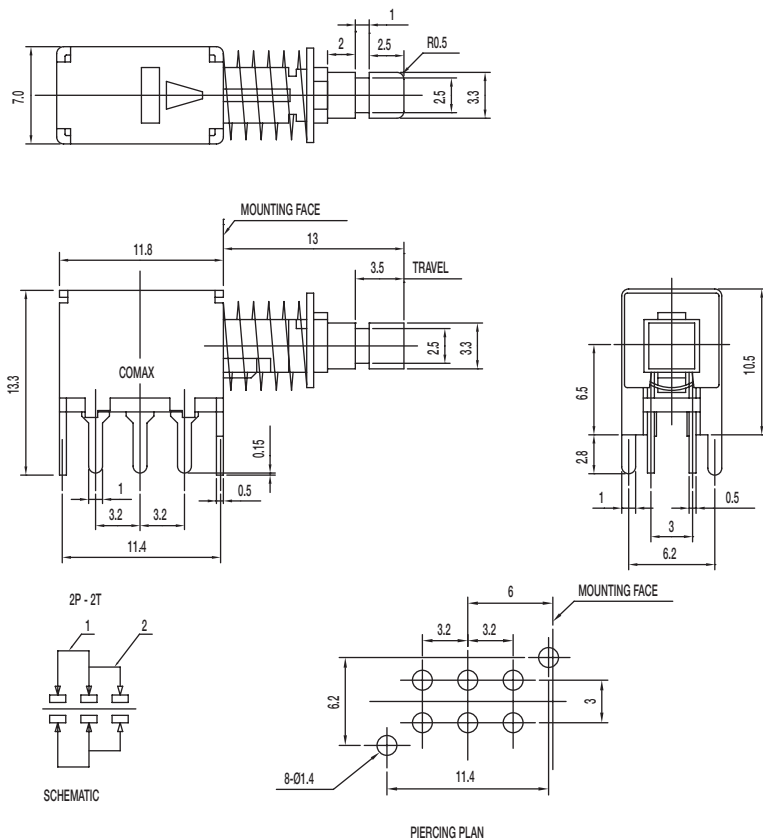
Specifications

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: 300 ± 100 gf (2.94 ± 0.98N)
TOTAL TRAVEL: 3.5 ± 0.3 mm
OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
KNOB: POM (UL 94HB)
CONTACT: Silver plated
SPRING: Steel
TERMINAL: Silver plated

PS-22F44-G13 NS 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: 300 ± 100 gf (2.94 ± 0.98N)
TOTAL TRAVEL: 3.5 ± 0.3 mm
OPERATING TEMPERATURE: -20°C to 70°C

Materials

FRAME: SPCC
KNOB: POM (UL 94HB)
CONTACT: Silver plated
SPRING: Steel
TERMINAL: Silver plated