

B Tactile Switches



- ## Typical Applications

- www.ck-components.com

KSB & KSF Series

Low-profile Tact Switch

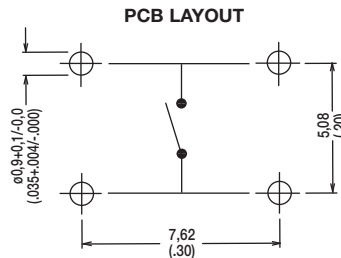
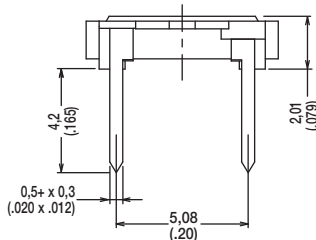
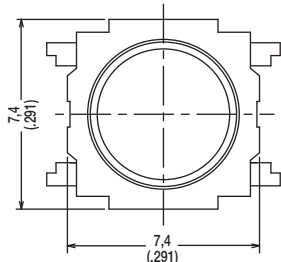
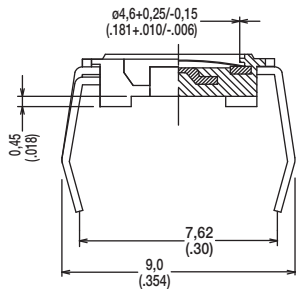
Tactile Switches

B

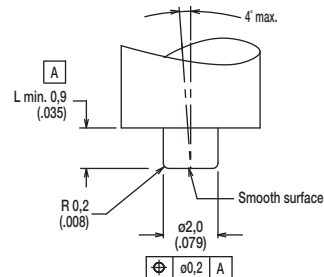
KSB



KSB0M110



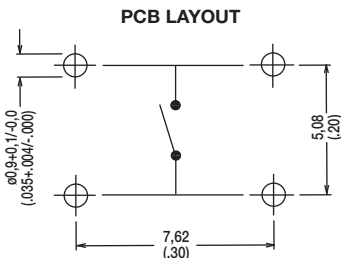
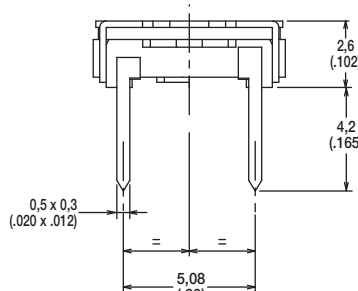
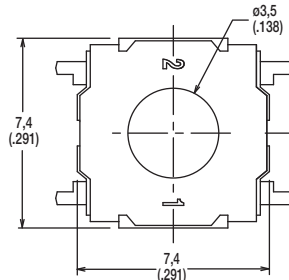
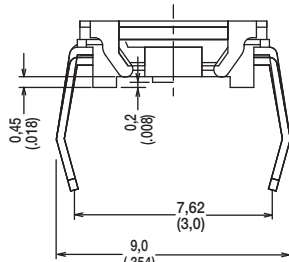
RECOMMENDED SHAPE OF ACTUATOR



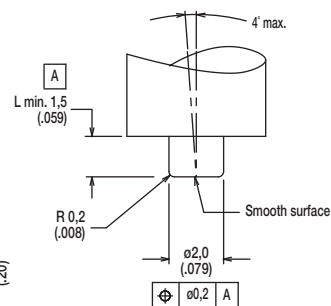
KSF



KSF0M111

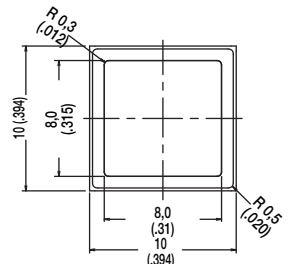
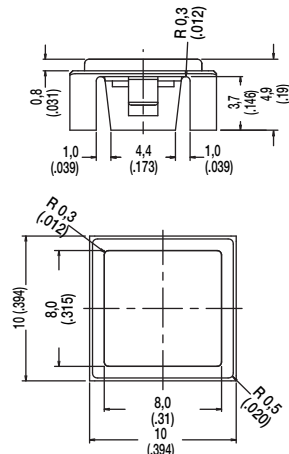
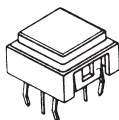


RECOMMENDED SHAPE OF ACTUATOR



BUTTON

K10 BUTTON FOR KSF ONLY Button must be ordered separately and will be supplied in bulk.



First Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

KSA & KSL Series Sealed Tact Switch

Features/Benefits

- Designed for automatic or manual insertion
- Cambered terminals to ensure self retention
- Top or side actuated
- Large choice of caps
- RoHS compliant and compatible

Typical Applications

- Automotive
- Industrial
- Telecommunication networks



Specification

CONTACT ARRANGEMENT: SPST, N.O.
DOUBLE OVERMOLDING ON TERMINAL
SEALING: IP60
TERMINALS: PC pins, ground pin optional

Mechanical

Type	Actuation force N	Operating life (operations)	Travel to make
KSA0M211	1 - 1,8	100,000	0,5 ± 0,2
KSA0M311	1 - 1,8	1,000,000	0,5 ± 0,2
KSA0M411	2,25 - 3,75	100,000	0,6 ± 0,2
KSA0M511	3,5 - 6,5	100,000	0,7 ± 0,2
KSA0M911	2,25 - 3,75	500,000	0,6 ± 0,2
KSL0M211	1 - 1,8	100,000	0,5 ± 0,2
KSL0M311	1 - 1,8	1,000,000	0,5 ± 0,2
KSL0M411	2,25 - 3,75	100,000	0,6 ± 0,2
KSL0M511	3,5 - 6,5	100,000	0,7 ± 0,2
KSL0M911	2,25 - 3,75	500,000	0,6 ± 0,2

NOTE: Other versions in terms of force, termination length and corrosion protection available. Please contact your sales representative.
This data sheet does not provide enough information for applications which require a certain level of quality or safety such as automotive, medical systems, safety equipment. Please contact your sales representative to get contractual specification package.

Electrical

	Silver	Gold
MAXIMUM POWER:	1 VA	0.2 VA
MAXIMUM VOLTAGE:	32 VDC	32 VDC
MINIMUM VOLTAGE:	20 mV	20 mV
MAXIMUM CURRENT:	50 mA	10 mA
MINIMUM CURRENT:	1 mA	1 mA
DIELECTRIC STRENGTH:	300 Vrms	
CONTACT RESISTANCE:	< 100m Ω	
INSULATION RESISTANCE (100 V):	> 10 ⁹ Ω	
BOUNCE TIME:	< 1 ms	

Environmental

	Silver	Gold
OPERATING TEMPERATURE:	-40°C to 85°C	-40°C to 125°C
STORAGE TEMPERATURE:	-40°C to 85°C	-55°C to 125°C

Process

Wave soldering compatible with lead free soldering profile.

Packaging

Can be delivered in tubes of 65 pieces for automatic insertion or in boxes of 500 pieces for manual insertion (250 pieces for KSL, KSLV, KSAV).

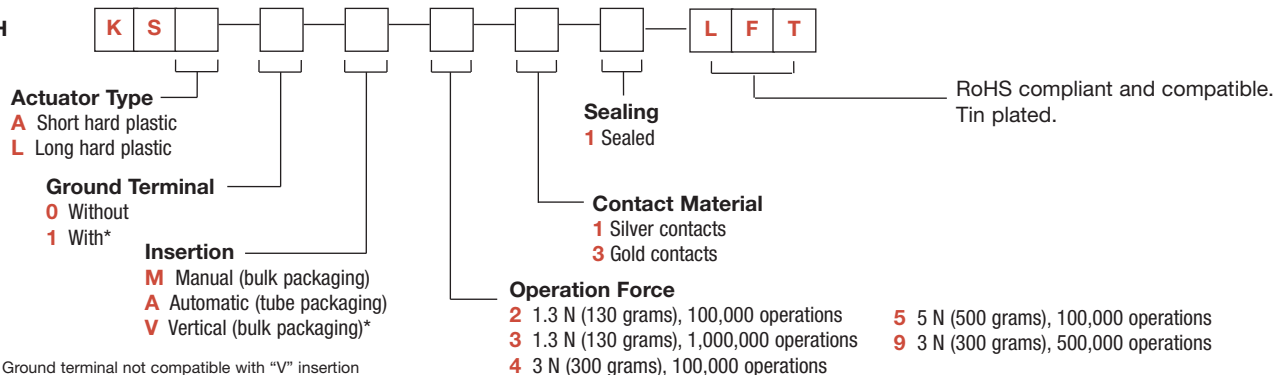
How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

However, please note that all the combinations of these options are not feasible.

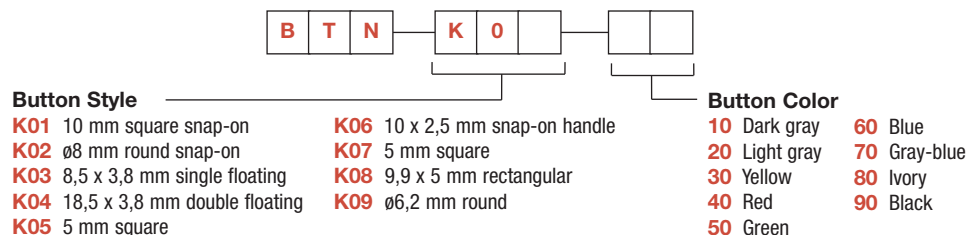
For any part number different from those listed above, please consult your local representative.

SWITCH



*Note: "1" Ground terminal not compatible with "V" insertion

BUTTONS Buttons must be ordered separately and will be supplied in bulk.



*NOTE: Please note that all buttons are not RoHS compliant. Please check the compliance with your C&K sales representative.



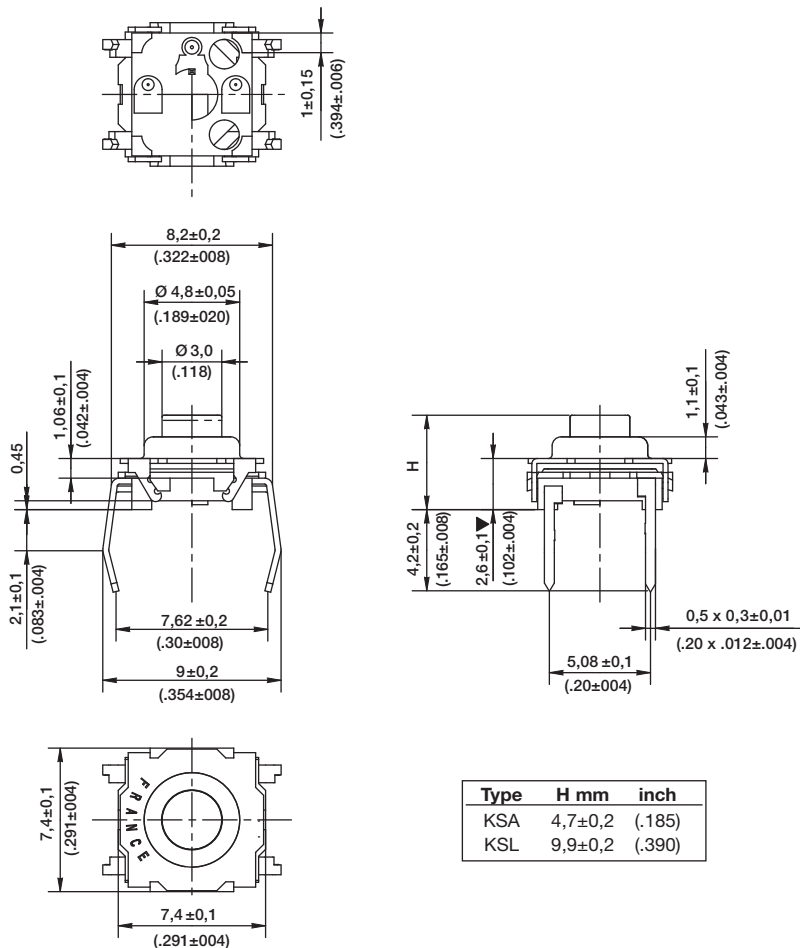
KSA & KSL Series
Sealed Tact Switch

ACTUATOR TYPE

KSA & KSL

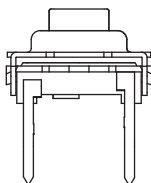
Tactile Switches

B

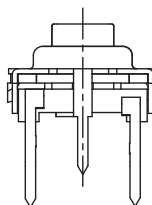


GROUND TERMINAL

0 WITHOUT



1* WITH



*Not compatible with "V" insertion

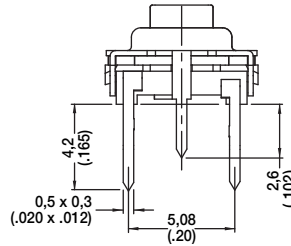
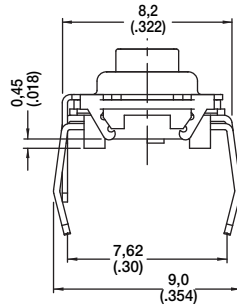


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

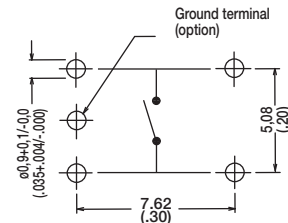
KSA & KSL Series Sealed Tact Switch

INSERTION

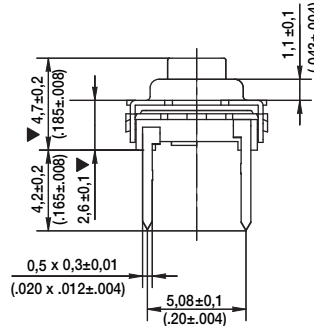
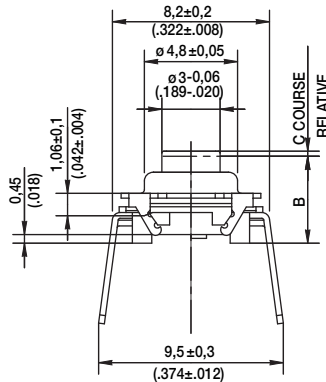
M MANUAL (BULK PACKAGING)



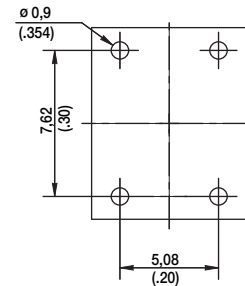
PCB LAYOUT



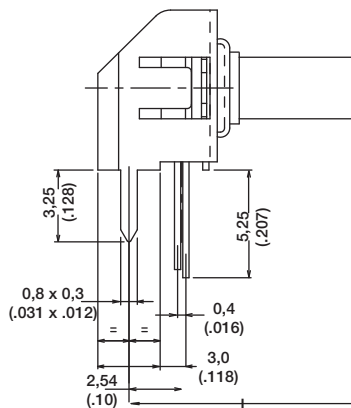
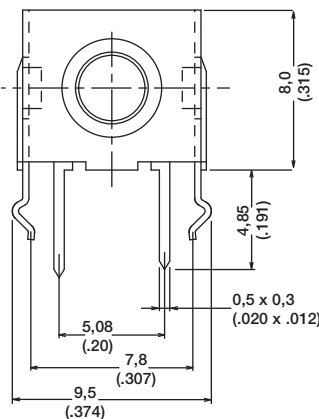
A AUTOMATIC (TUBE PACKAGING, 65 PIECES PER TUBE)



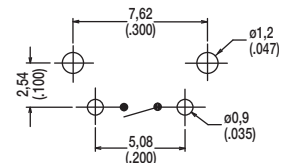
PCB LAYOUT



V VERTICAL



PCB LAYOUT



DIMENSION L

Type	L mm	inch
KSA0V	5,8	.228
KSL0V	11,1	.437

OPERATING FORCE

OPTION CODE	OPERATING FORCE
2	1.3 N (130 grams) 100,000 operations
3	1.3 N (130 grams) 1,000,000 operations
4	3.0 N (300 grams) 100,000 operations
5	5.0 N (500 grams) 100,000 operations
9	3.0 N (300 grams) 500,000 operations



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

KSA & KSL Series Sealed Tact Switch

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL
1	Silver contacts
3	Gold contacts

SEALING

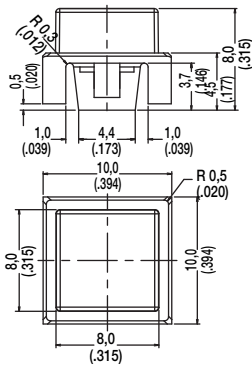
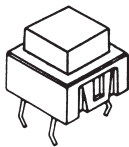
OPTION CODE	SEALING
1	Totally sealed - sealed IP64

BUTTONS

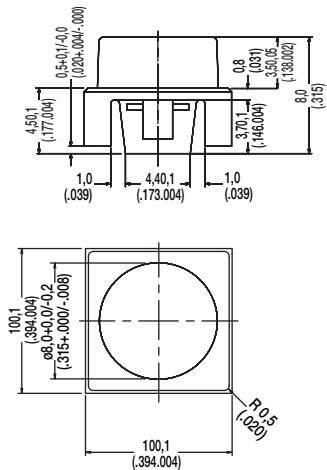
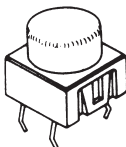
Buttons must be ordered separately and will be supplied in bulk.

BUTTON TYPE	KSA	KSL	KSAV	KSLV
K01	X			
K02	X			
K03	X	X	X	X
K04	X	X	X	X
K05		X		X
K06	X			
K07		X		X
K08		X		X
K09		X		X

K01



K02

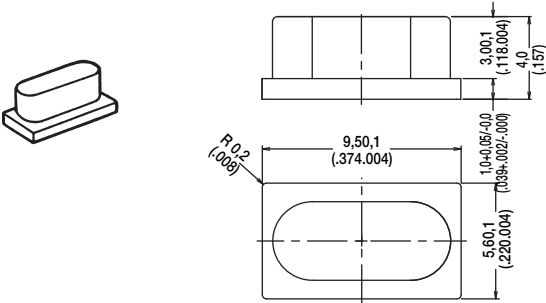


First Angle
Projection

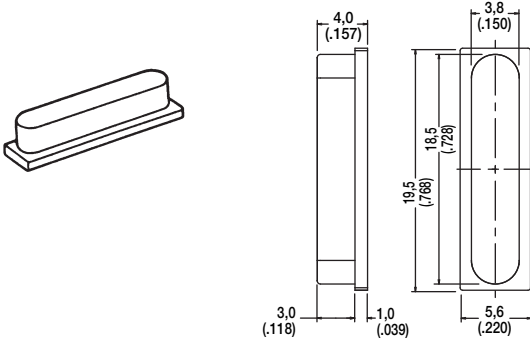
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

KSA & KSL Series Sealed Tact Switch

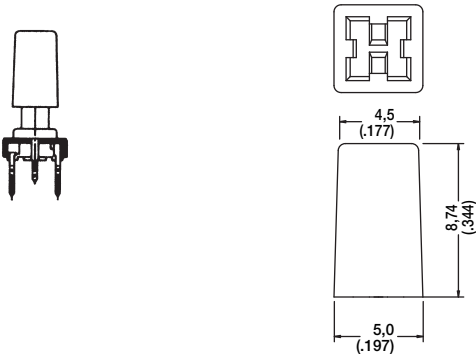
K03



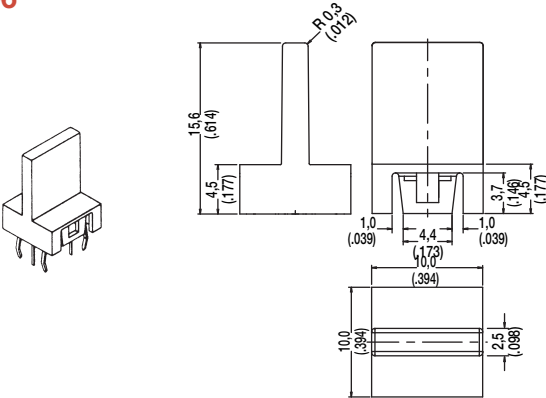
K04



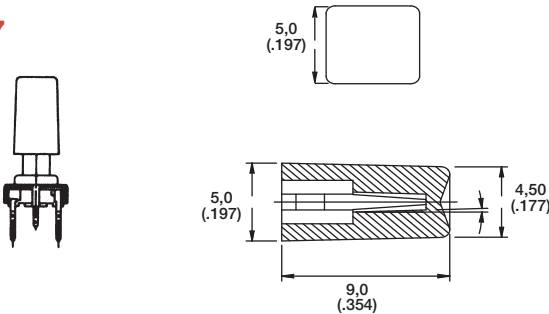
K05



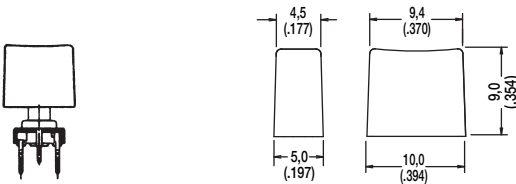
K06



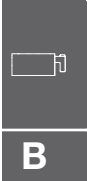
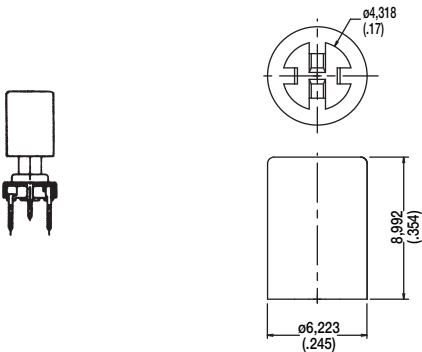
K07



K08



K09



Tactile Switches



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

KSA & KSL MKII Series

High Performance Sealed Tact Switch

Features/Benefits

- Highest tact switch sealing performance
- Improved sealing through a modification of the crimping technique and to a double overmolding of the terminal
- Totally sealed
- Up to 1M operations
- RoHS compliant and compatible

Typical Applications

- Automotive
- Industrial
- Telecommunication networks
- Household appliances
- Heating control systems



Specification

CONTACT ARRANGEMENT: SPST, N.O.
TERMINALS: PC pins
SEALING: IP67
Double overmold on terminals

Mechanical

Type	Actuation force N (grams)	Operating life (operations)	Travel to make
KSA0M212	1,0 - 1,65	100,000	0,5 ± 0,15
KSA0M312	1,0 - 1,65	1,000,000	0,5 ± 0,15
KSA0M412	2,75 - 3,75	100,000	0,6 ± 0,25
KSA0M512	3,75 - 6,25	100,000	0,7 ± 0,25

Packaging

Can be delivered in tubes of 65 pieces for automatic insertion or in boxes of 500 pieces for manual insertion (250 pieces for KSL)

NOTE: Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

Other versions in terms of force, termination length and corrosion protection available.
Please contact your sales representative.

This data sheet does not provide enough information for applications which require a certain level of quality or safety such as automotive, medical systems, safety equipment.
Please contact your sales representative to get contractual specification package.

Electrical

	Silver	Gold
MAXIMUM POWER:	1 VA	0.2 VA
MAXIMUM VOLTAGE:	32 VDC	32 VDC
MINIMUM VOLTAGE:	20 mV	20 mV
MAXIMUM CURRENT:	50 mA	10 mA
MINIMUM CURRENT:	1 mA	1 mA
DIELECTRIC STRENGTH:	300 Vrms	
CONTACT RESISTANCE:	< 100m Ω	
INSULATION RESISTANCE (100 V):	> 10 ⁹ Ω	
BOUNCE TIME:	1 ms	

Environmental

	Silver	Gold
OPERATING TEMPERATURE:	-40°C to 85°C	-40°C to 125°C
STORAGE TEMPERATURE:	-40°C to 85°C	-55°C to 125°C

Process

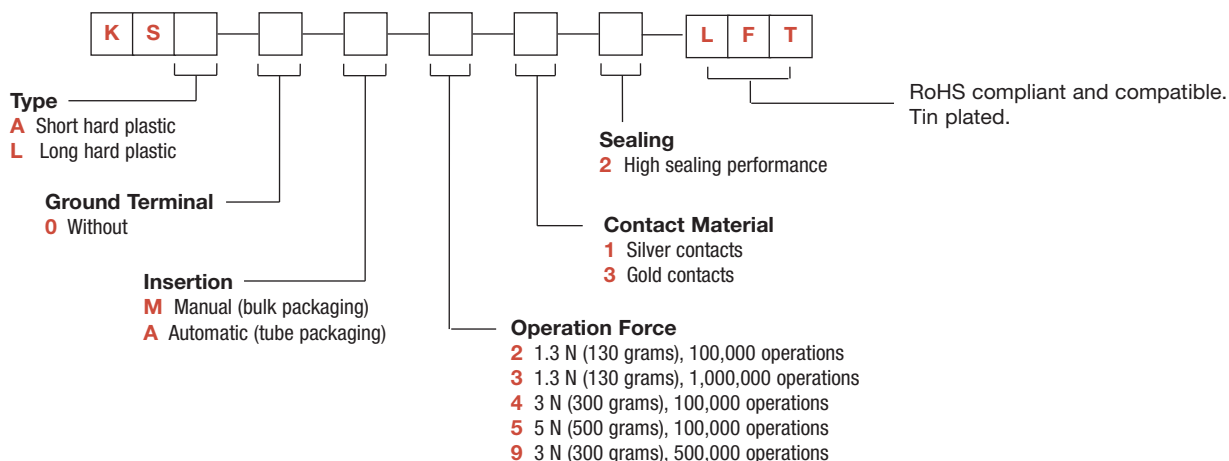
Wave soldering compatible with lead free soldering profile.

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

However, please note that all the combinations of these options are not feasible.

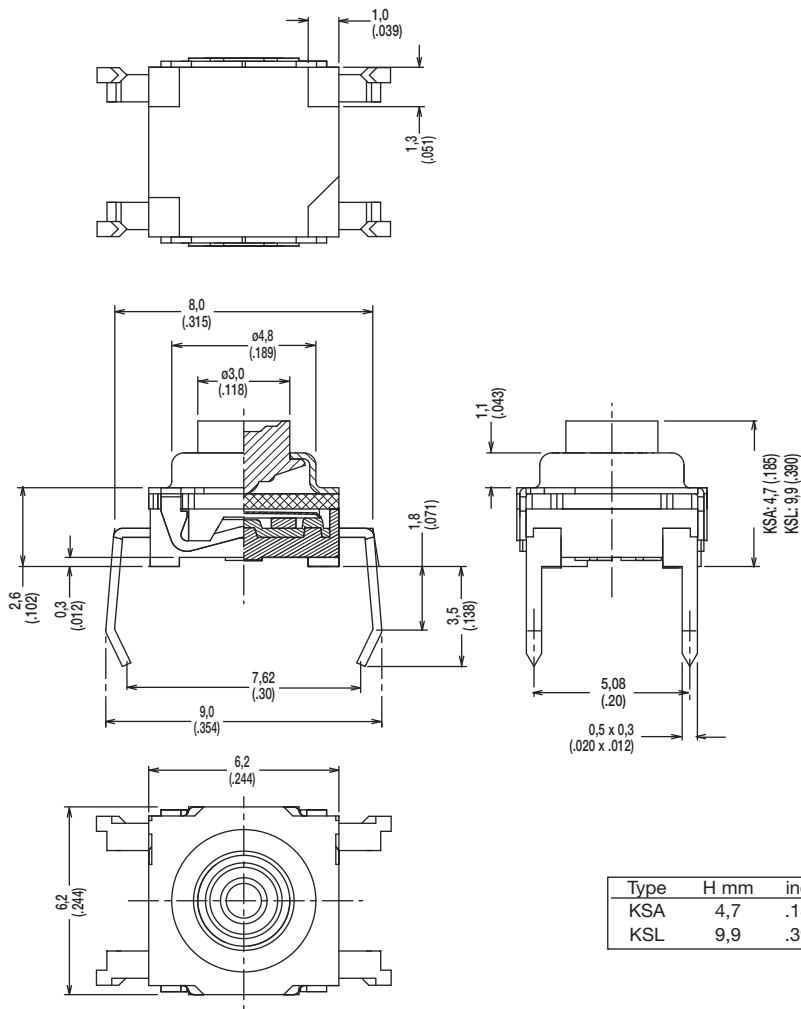
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KSA & KSL MKII Series High Performance Sealed Tact Switch

TYPE

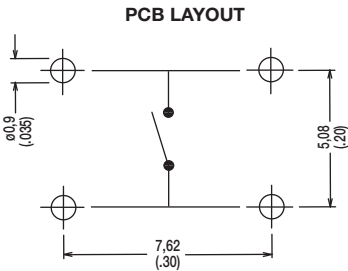
KSA & KSL **MANUAL (BULK PACKAGING) DRAWING SHOWN**



Type	H mm	inch
KSA	4,7	.185
KSL	9,9	.390



KSA0M112



Tactile Switches



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

KSI Series

Sealed Tact Switches



Features/Benefits

- Long and soft actuator
- Distinctive tactile feel
- 1.1 & 3 N actuation force
- Ground terminal optional
- RoHS compliant and compatible

Typical Applications

- Automotive
- Automation
- Door entry systems
- Remote controls

Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.
DISTANCE BETWEEN BUTTON CENTERS (min.): 7.62 (0.300)
TERMINALS: PC pins

Mechanical

Type	Actuation force N	Operating life (operations)	Travel to make
KSI0M411	2.25 - 4.0	100,000	1,1 ± 0,2
KSI0V211	1.5 - 2.5	100,000	0,7 ± 0,2
KSI0V411	2.25 - 4.0	100,000	1,1 ± 0,2

Durometer for silicone actuator is 50 shore

Packaging

Delivered in boxes of 500 pieces (M version) or 250 pieces (V version).

NOTE: Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

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Electrical

	Silver	Gold
MAXIMUM POWER:	1 VA	0.2 VA
MAXIMUM VOLTAGE:	32 VDC	32 VDC
MINIMUM VOLTAGE:	20 mV	20 mV
MAXIMUM CURRENT:	50 mA	10 mA
MINIMUM CURRENT:	1 mA	1 mA
DIELECTRIC STRENGTH (50 Hz, 1 min.):	300 Vrms	
CONTACT RESISTANCE:	< 50 mΩ	
INSULATION RESISTANCE (100V):	> 10 ¹¹ Ω	
BOUNCE TIME:	< 1 ms	

Environmental

	Silver	Gold
OPERATING TEMPERATURE:	-40°C to 90°C	-40°C to 125°C
STORAGE TEMPERATURE:	-40°C to 90°C	-55°C to 125°C

Process

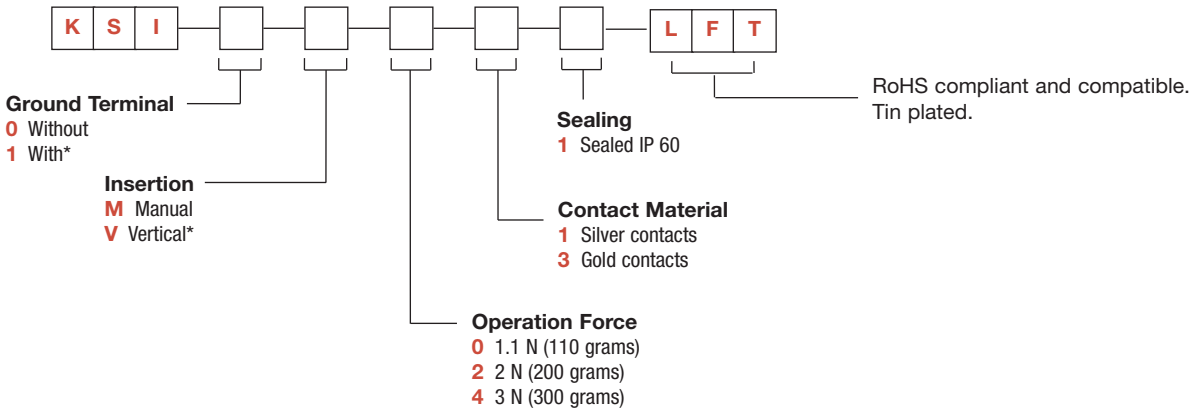
Wave soldering, compatible with lead free soldering profile.

How To Order

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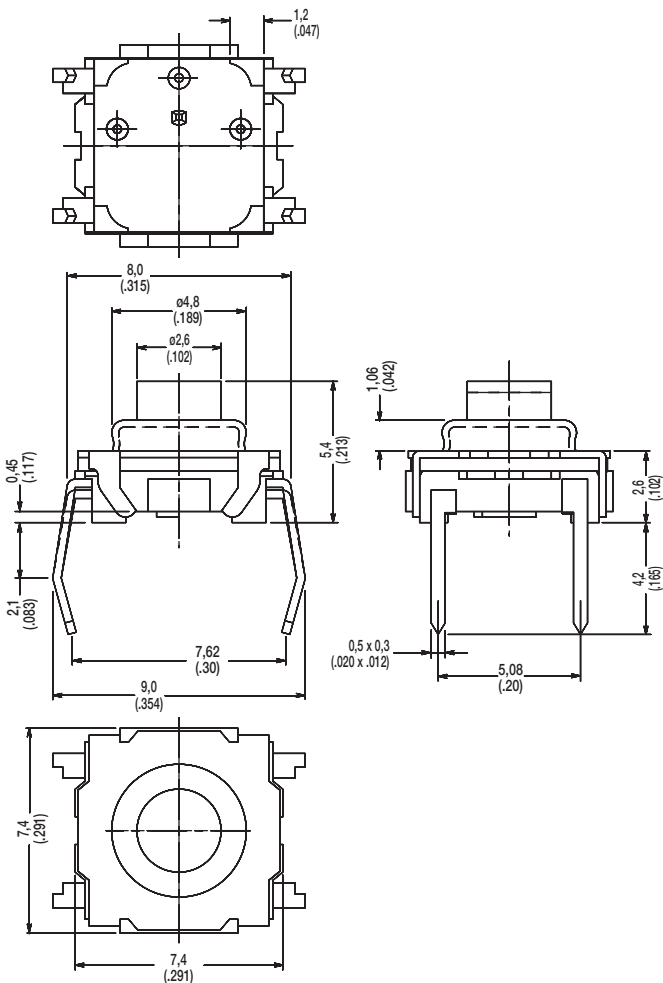
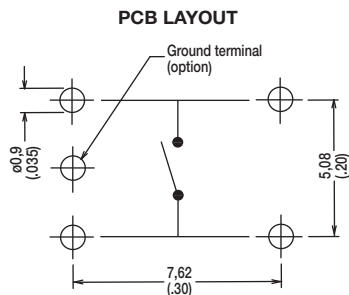


*Note: "1" Ground terminal not compatible with "V" insertion

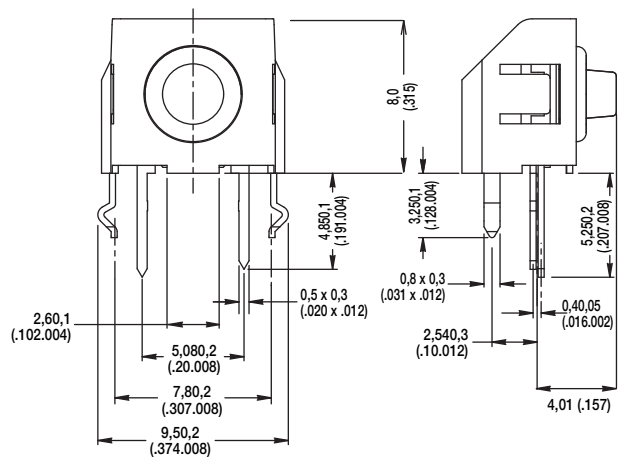
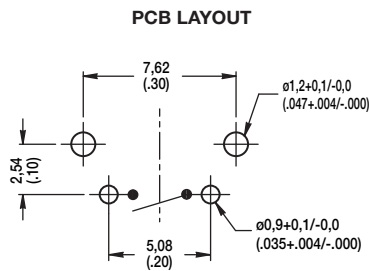
KSI Series
Sealed Tact Switches

KSI

M MANUAL



V VERTICAL



First Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

C&K



B

Tactile Switches

KSJ Series

Spherical Actuator Tact Switches

Features/Benefits

- **Spherical actuator allows actuation force off center $\pm 30^\circ$ with regard to vertical**
- **Total travel 1.2 mm**
- **Sealed against flux**
- **RoHS compliant and compatible**

Typical Applications

- **Automotive**
- **Cranes, off road, railway**
- **Factory automation**
- **Security systems**



Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.
DISTANCE BETWEEN BUTTON CENTERS (min.): 7.62 (0.300)
TERMINALS: PC pins
SEALING: IP60

Mechanical

Type	Actuation force N (grams)	Operating life (operations) axial	Operating life (operations) radial	Travel to make
KSJ0M21160SH	1,5 - 2,5	100,000	30,000	0,7 $\pm$ 0,25
KSJ0M41180SH	2,25 - 3,75	100,000	30,000	0,55 $\pm$ 0,25
KSJ0M21180SH	1,5 - 2,5	100,000	30,000	0,35 $\pm$ 0,2
KSJ0M91180SH	3,1 - 4,7	100,000	30,000	0,7 $\pm$ 0,25

Environmental

	Silver	Gold
OPERATING TEMPERATURE:	-40°C to 85°C	-40°C to 125°C
STORAGE TEMPERATURE:	-40°C to 85°C	-55°C to 125°C

Packaging

Delivered in boxes of 500 pieces.

Electrical

	Silver	Gold
MAXIMUM POWER:	1 VA	0.2 VA
MAXIMUM VOLTAGE:	32 VDC	32 VDC
MINIMUM VOLTAGE:	20 mV	20 mV
MAXIMUM CURRENT:	50 mA	50 mA
MINIMUM CURRENT:	1 mA	1 mA
DIELECTRIC STRENGTH (50 Hz, 1 min.): ≥ 300 Vrms		
CONTACT RESISTANCE: ≤ 100 mOhms		
INSULATION RESISTANCE (100V): $> 10^9$ ohms		
BOUNCE TIME: < 1 ms		

Process

Wave soldering, compatible with lead free soldering profile.

NOTE: Specifications listed above are for switches with standard options.
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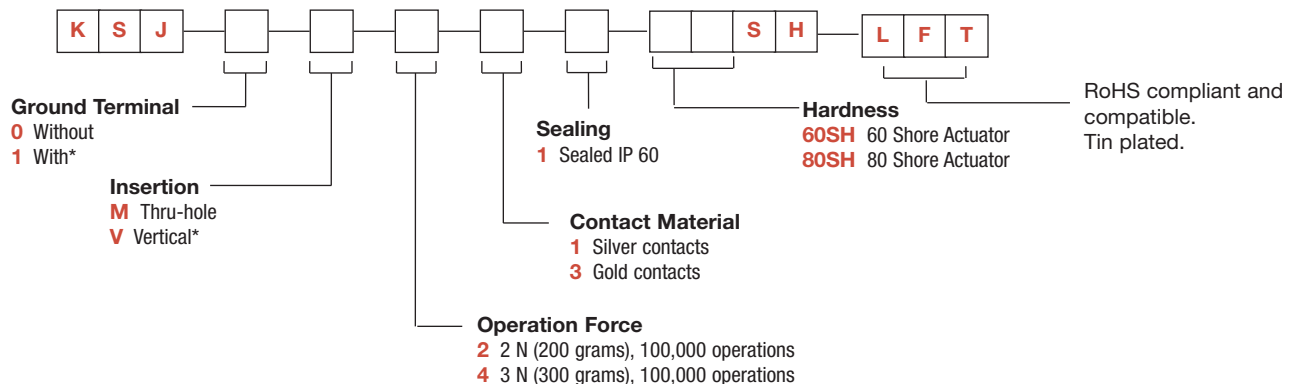
* Please contact your C&K representative for any question regarding the product integration.

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

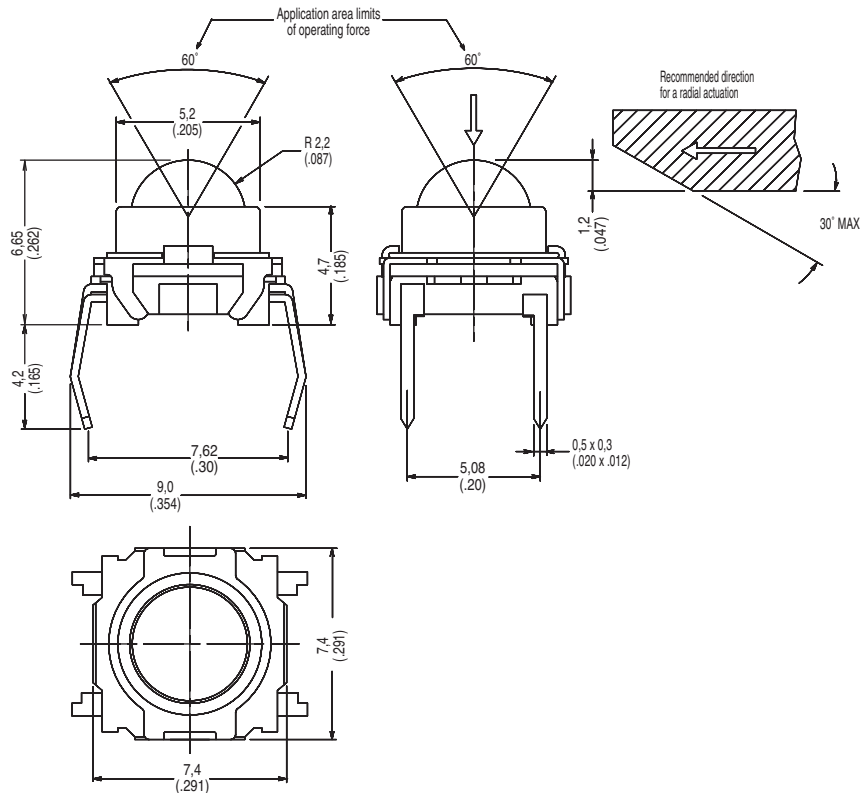
However, please note that all the combinations of these options are not feasible.

For any part number different from those listed in the table above, please consult your local representative.



KSJ Series Spherical Actuator Tact Switches

KSJ



KSJ0M211

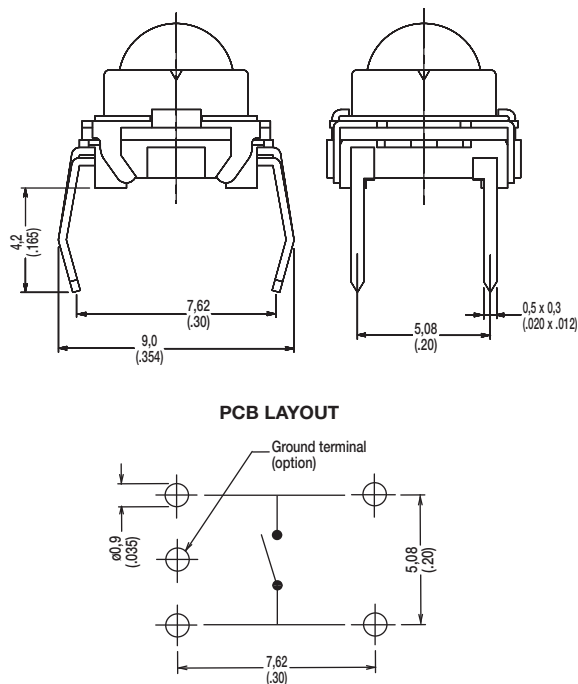


B

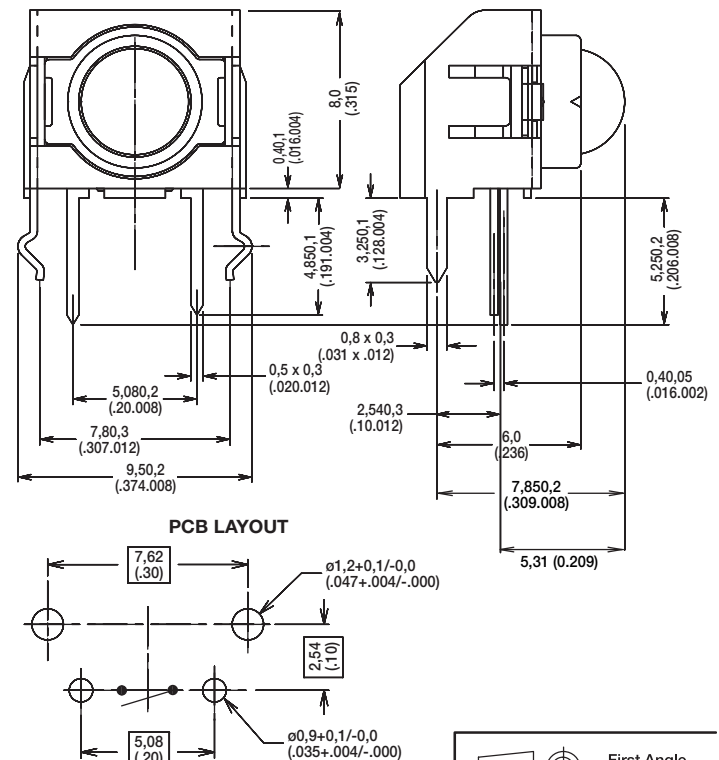
Tactile Switches

INSERTION

M THRU-HOLE



V VERTICAL



First Angle
Projection



PTS635 Series

3,5 mm Tact Switches



Features/Benefits

- Compact size 6 x 3.5 mm
- Variety of switch heights
- Choice of actuation force
- RoHS compliant and compatible

Typical Applications

- Consumer products
- Instrumentation
- Computer products
- Industrial

Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: SPST, N.O.
TERMINALS: PC pins

Mechanical

ACTUATION FORCE: PTS635L models: 130 grams.
PTS635H models: 200 grams.
LIFE EXPECTANCY: 20,000 operations.

Electrical

CONTACT RATING: 50 mA @ 12 V DC.
DIELECTRIC STRENGTH: 250 V AC min.
CONTACT RESISTANCE: 100 mΩ max. initial.
INSULATION RESISTANCE: 10¹¹ Ω min.

Environmental

OPERATING TEMPERATURE: -40°C to 60°C

NOTE: Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

Process

SOLDERING: Preheating to 100°C for 45 sec. max. Keep flux flush with top surface of PCB; do not apply to component side of PCB and area where terminals are located. Soldering to 255°C for 5 sec. max. Clean by brushing on solder surface. Do not clean switch with solvents.

Materials

BASE: 6/6 nylon or glass filled polyester (PBT) (UL 94V-0).
ACTUATOR: 6/6 nylon or polyacetal (UL 94HB).
COVER PLATE: PTS635S and PTS635V models: Tin plated stainless steel
DOME CONTACTS: Phosphor bronze, silver clad.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated. Insert molded.

Packaging

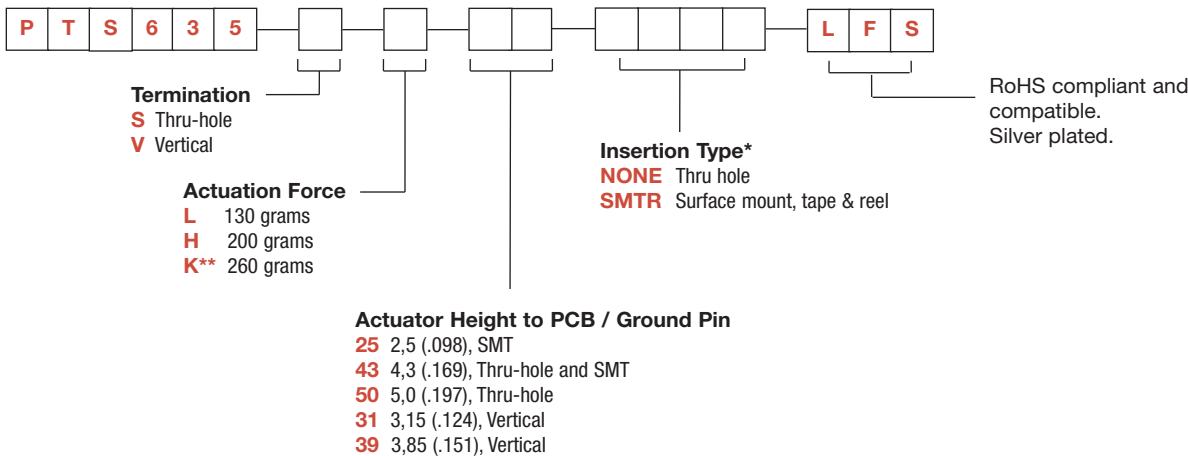
Bulk packaging.

Tape & reel for:

PTS635Sx43SMTR, 1700 pcs per reel
PTS635Sx25SMTR, 3000 pcs per reel

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



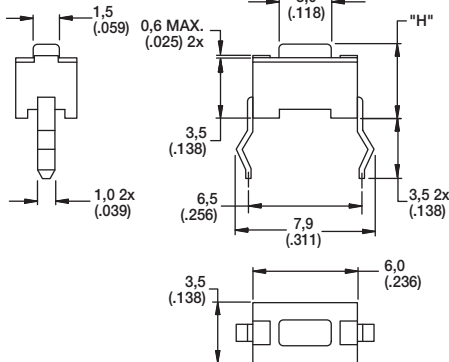
* SM and SMTR only available with PTS635 43 and 25 actuator options.

** Only for the PTS635Sx25SMTR.

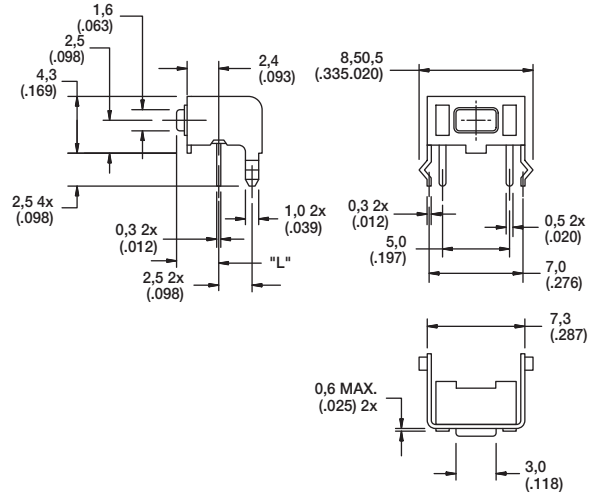
PTS635 Series 3,5 mm Tact Switches

SERIES

PTS635



PTS635S Model



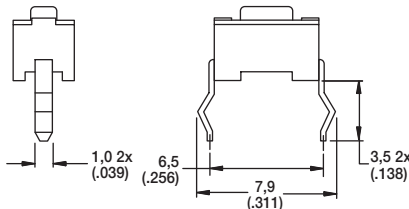
B

Tactile Switches

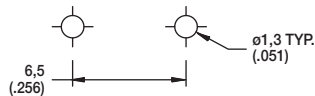
TERMINATION



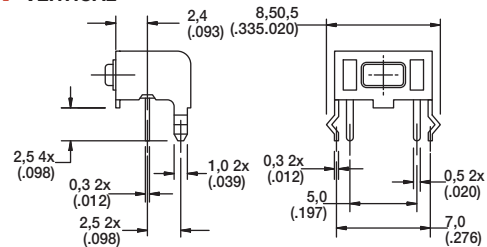
S THRU-HOLE



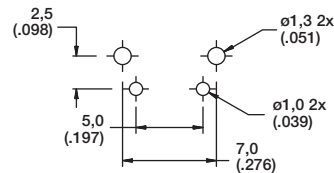
PCB LAYOUT



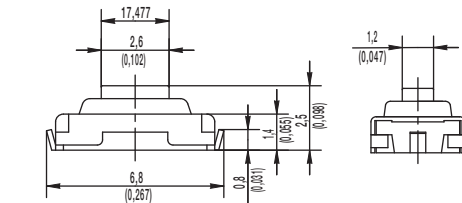
V VERTICAL



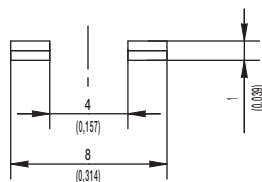
PCB LAYOUT



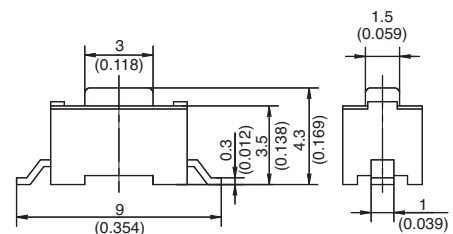
SMT 25



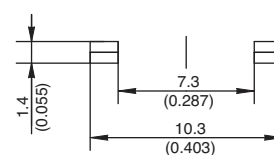
PCB LAYOUT



SMT 43



PCB LAYOUT



First Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



PTS635 Series

3,5 mm Tact Switches

ACTUATION FORCE

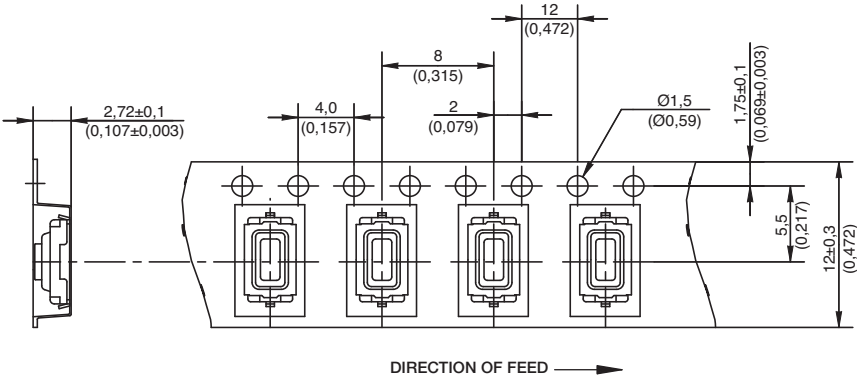
OPTION CODE	FORCE
L	130 grams
H	200 grams

ACTUATOR HEIGHT

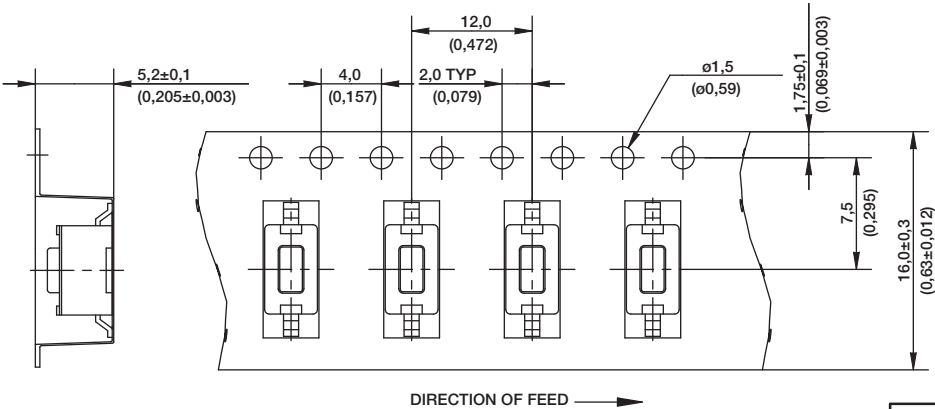
OPTION CODE	HEIGHT "H" or LENGTH "L"	TERMINATION	SCHEMATIC
43	4,3 (.169)	Thru-hole	
50	5,0 (.197)	Thru-hole	
31	3,15 (.124)	Vertical	
39	3,85 (.151)	Vertical	

INSERTION TYPE

SMT 25



SMT 43

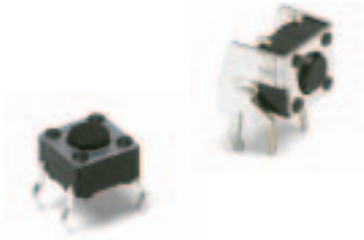


First Angle Projection



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

PTS645 Series 6 mm Tact Switches



Features/Benefits

- **Compact size 6 x 6 mm**
- **Variety of actuator lengths**
- **Choice of actuation force**
- **RoHS compliant and compatible**

Typical Applications

- **Consumer products**
- **Instrumentation**
- **Computer products**
- **Industrial**

Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: SPST, N.O.
TERMINALS: PC pins

Mechanical

ACTUATION FORCE: PTS645 models: 130 grams, 160 grams,
200 grams, 260 grams
LIFE EXPECTANCY: 50,000 operations.

Electrical

CONTACT RATING: 50 mA @ 12 V DC.
DIELECTRIC STRENGTH: 250 V AC min.
CONTACT RESISTANCE: 100 mΩ max. initial.
INSULATION RESISTANCE: 10¹¹ Ω min.

Environmental

OPERATING TEMPERATURE: -20°C to 60°C

NOTE: Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

Process

SOLDERING: Preheating to 100°C for 45 sec. max. Keep flux flush with top surface of PCB; do not apply to component side of PCB and area where terminals are located. Soldering to 255°C for 5 sec. max. Clean by brushing on solder surface. Do not clean switch with solvents.

Materials

BASE: 6/6 nylon or glass filled polyester (PBT).
ACTUATOR: 6/6 nylon or polyacetal.
COVER PLATE: PTS645S: Polyester or stainless steel.
PTS645T and PTS645V: Tin alloy or stainless steel.
DOME CONTACTS: Phosphor bronze, silver clad.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated. Insert molded.

Packaging

Bulk packaging.

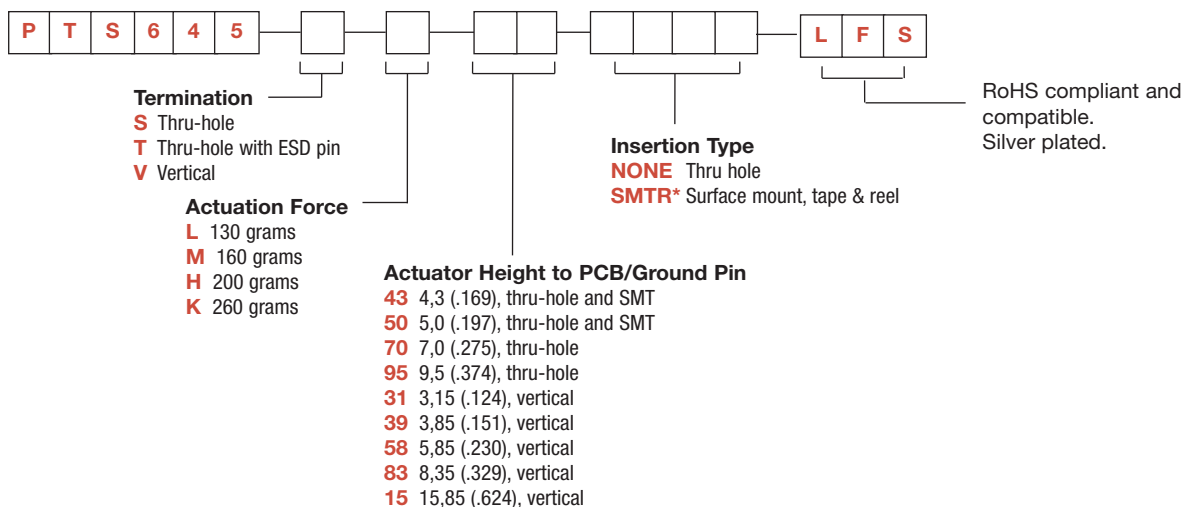
Tape & reel for the SMT type:

Reel of 1,000 pieces

Tactile Switches

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



*Only the PTS645 in horizontal type without ESD pin is available in SMT type.

Tactile Switches

Technical drawing of a hand tool with dimensions in inches and millimeters:

- Overall length: 6.5 (.256)
- Top handle width: 7.1 (.280)
- Bottom handle width: 0.3 (.012)
- Bottom handle length: 2.5 (.098)
- Bottom handle diameter: 1.0 (.039)
- Bottom handle offset: 2.55 (.100)
- Bottom handle tip: "H"



Technical drawing of a 1000 Series 1/2" Square Flange Nut. The drawing includes three views: a side view, a front view, and a top view. Dimensions are provided in inches and millimeters.

Side View Dimensions:

- Overall height: 1.8" (.071)
- Flange thickness: 0.7 TYP. (.028)
- Threaded section height: 3.6" (.142)
- Threaded section diameter: 6.5" (.256)
- Threaded section length: 7.9" (.311)
- Threaded section diameter: 6.0 SQ. (.236)
- Threaded section length: 4.5" (.177)

Front View Dimensions:

- Overall width: 6.5" (.256)
- Threaded section diameter: 6.0 SQ. (.236)
- Threaded section length: 4.5" (.177)

Top View Dimensions:

- Overall width: 6.5" (.256)
- Threaded section diameter: 6.0 SQ. (.236)
- Threaded section length: 4.5" (.177)

Other Dimensions:

- Threaded section diameter: 6.5" (.256)
- Threaded section length: 7.9" (.311)
- Threaded section diameter: 6.0 SQ. (.236)
- Threaded section length: 4.5" (.177)

Technical drawing of the 1000 Series 1/2" (Figure 1000-1). The drawing includes three views: a side view, a front view, and a top view. Dimensions are provided in inches and millimeters.

- Side View (Top):** Shows the profile of the component. Dimensions include a total width of 7.9 (311), a central width of 6.5 (256), and a side flange width of 1.8 (.071). A vertical dimension of 3.5 (.138) is shown for the side flange.
- Side View (Bottom):** Shows the profile of the component. Dimensions include a total width of 7.9 (311), a central width of 6.5 (256), and a side flange width of 1.8 (.071). A vertical dimension of 3.5 (.138) is shown for the side flange.
- Top View:** Shows the top of the component. Dimensions include a central width of 6.5 (256) and a side flange width of 1.8 (.071). A vertical dimension of 4.5 (.177) is shown for the side flange.

Technical drawing of the 1000 Series Valve, showing three views: side, front, and top. Dimensions are provided in inches and millimeters.

Side View Dimensions:

- Overall width: 0,3 (.012)
- Distance from left edge to centerline: 4,1 (.161)
- Distance from centerline to right edge: 0,7 TYP (.028)
- Overall height: 7,9 (.311)
- Distance from top edge to centerline: 1,8 (.071)
- Distance from centerline to right edge: 0,7 (.028)
- Distance from right edge to centerline: 3,5 (.138)
- Distance from centerline to right edge: 6,5 (.256)

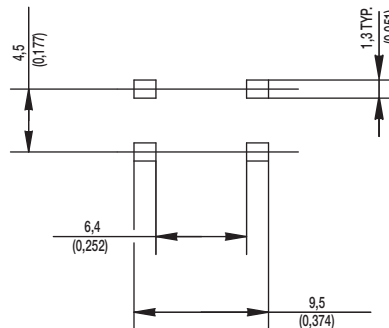
Top View Dimensions:

- Overall width: 4,5 (.177)

Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing shows a cross-section of a part with a central hole and two side holes. The dimensions are as follows:

- Top hole diameter: $\phi 1.0$ TYP. (.039)
- Right side hole diameter: 2.5 (.098)
- Left side hole diameter: 4.5 (.177)
- Distance between left and right side holes: 7.0 (.276)

Technical drawing of the 1000 Series 1/2" component, showing two views. The top view is a side elevation showing a central vertical section with a diameter of $\varnothing 3,5$ (0,138) and a width of 9,0 (0,354). The bottom view is a top-down view showing a square base with a side length of 6,0 SQ. (0,236) and a central circular feature with a diameter of 4,5 (0,177). The drawing includes dimension lines and arrows indicating the measurements.



PTS645 Series 6 mm Tact Switches

ACTUATION FORCE



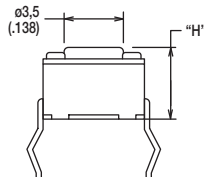
OPTION CODE	FORCE
L	130 grams
M	160 grams
H	200 grams
K	260 grams

ACTUATOR HEIGHT

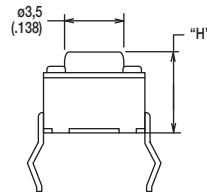


OPTION CODE	HEIGHT "H" or LENGTH "L"	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole		
95	9,5 (.374)	Thru-hole		
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)	Vertical		
15	15,85 (.624)	Vertical		

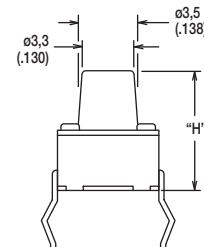
43



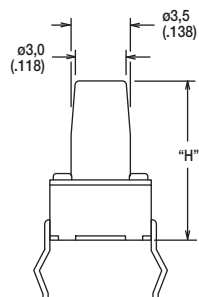
50



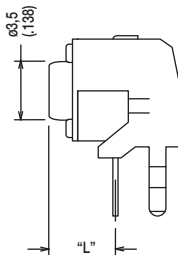
70



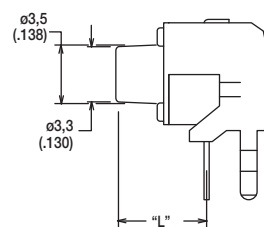
95



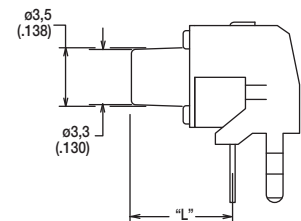
31



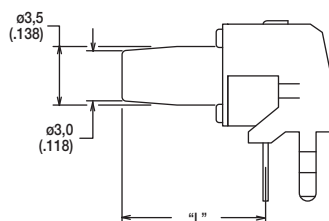
39



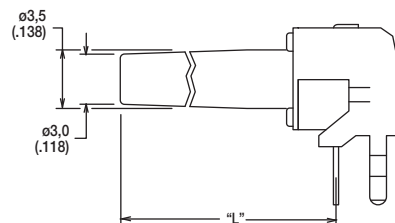
58



83



15



First Angle
Projection

C&K

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



PTS125 Series

12 mm Tact Switches



Features/Benefits

- **Stable control feeling**
- **Thru-hole or vertical actuation**
- **160 or 260 grams actuation force**
- **RoHS compliant and compatible**

Typical Applications

- **Consumer products**
- **Instrumentation**
- **Computer products**
- **Industrial**

Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: SPST, N.O.
TERMINALS: PC pins

Mechanical

ACTUATION FORCE: PTS125M models: 160 grams.
PTS125 K models: 260 grams.
LIFE EXPECTANCY: 200,000 operations, M option;
100,000 operations, K option.

Electrical

CONTACT RATING: 50 mA @ 12 V DC.0
DIELECTRIC STRENGTH: 250 V AC min.
CONTACT RESISTANCE: 100 mΩ max. initial.
INSULATION RESISTANCE: 10¹¹ Ω min.

NOTE: Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

Environmental

OPERATING TEMPERATURE: -40°C to 60°C

Process

SOLDERING: Preheating to 100°C for 45 sec. max. Keep flux flush with top surface of PCB; do not apply to component side of PCB and area where terminals are located. Soldering to 255°C for 5 sec. max. Clean by brushing on solder surface. Do not clean switch with solvents.

Materials

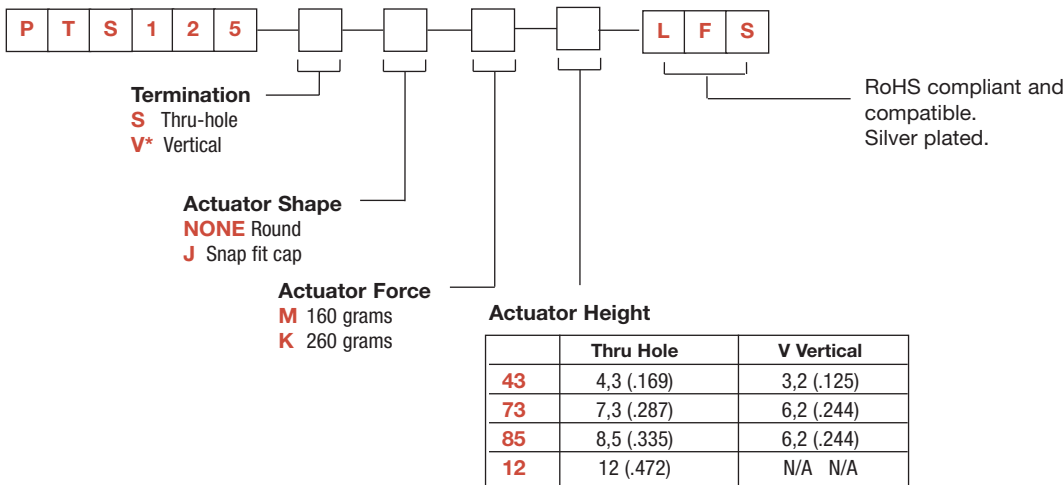
BASE: 6/6 nylon or glass filled polyester (PBT) (UL 94V-0).
ACTUATOR: PBT (UL94V0) or polyacetal (UL 94HB).
COVER PLATE: Tin alloy.
DOME CONTACTS: Phosphor bronze, silver clad.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated. Insert molded.

Packaging

Tube packaging.

How To Order

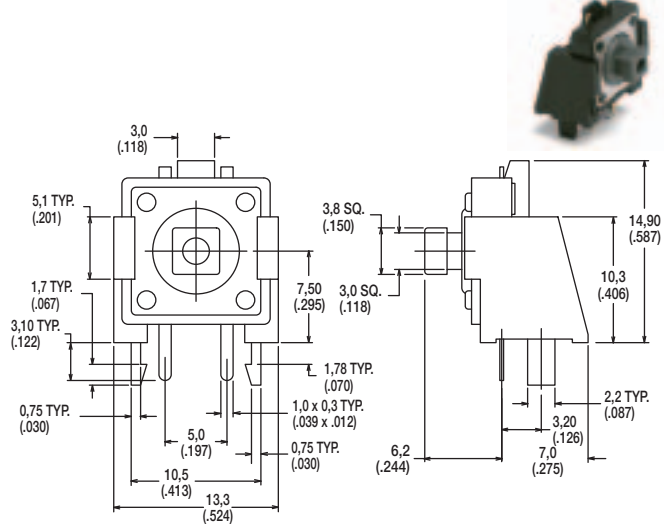
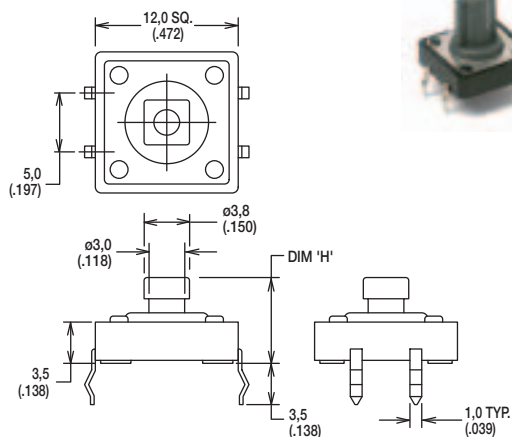
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and and place it in the appropriate box.



* V option available with J73 actuator only.

PTS125 Series
12 mm Tact Switches

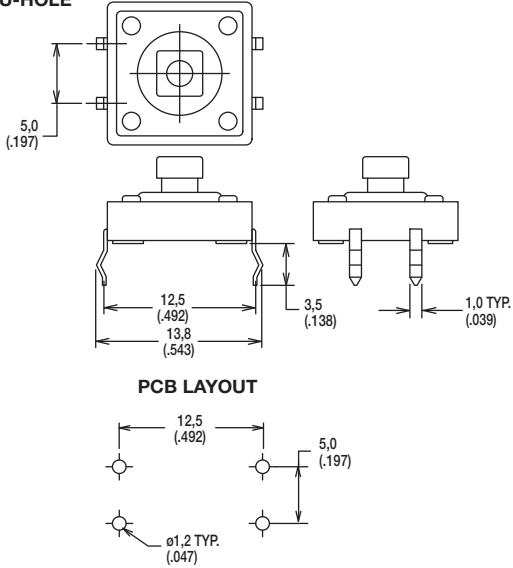
SERIES



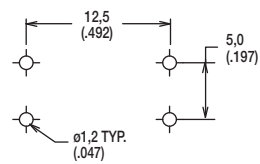
B
Tactile Switches

TERMINATION

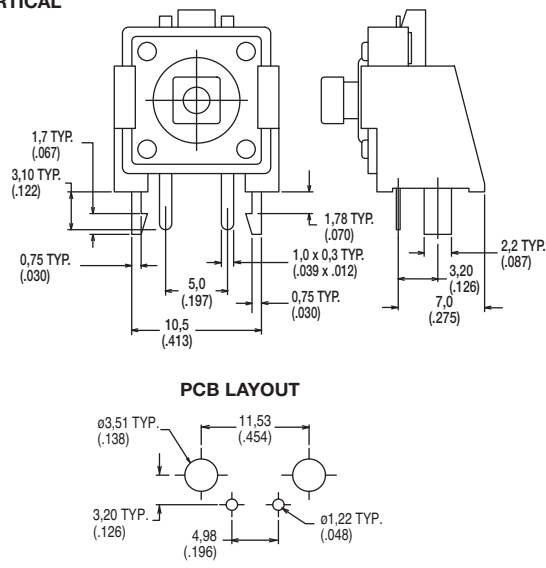
S THRU-HOLE



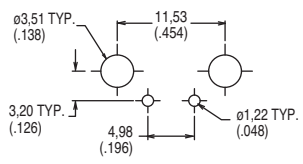
PCB LAYOUT



V VERTICAL



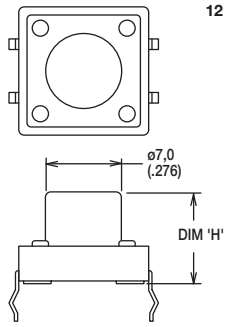
PCB LAYOUT



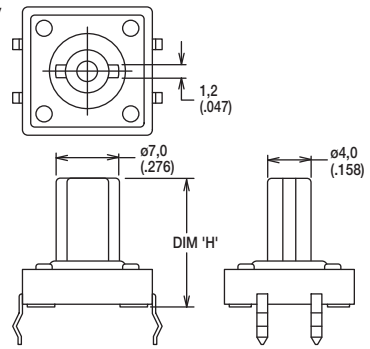
ACTUATOR SHAPE

NONE ROUND

43 and 85 heights only

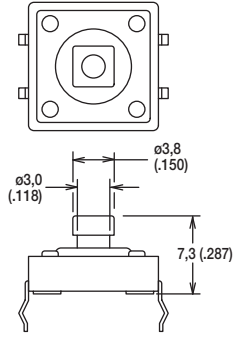


12 height only



J SNAP-FIT CAP

73 height only



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

PTS125 Series
12 mm Tact Switches

ACTUATION FORCE 

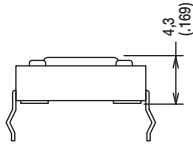
OPTION CODE	FORCE
M	160 grams
K	260 grams

B

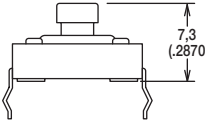
Tactile Switches

ACTUATOR HEIGHT 

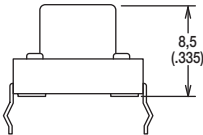
43 4,3 mm



73 7,3 mm SNAP-FIT



85 8,5 mm



12 12 mm

