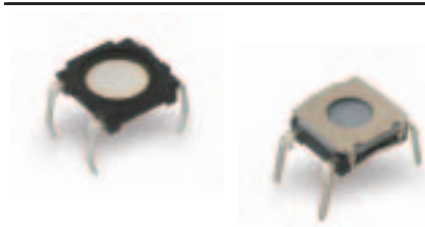


KSB & KSF Series

Low-profile Tact Switch



Features/Benefits

- Low profile
- Protected against flux
- KSB without top sealing
- KSF with top sealing
- RoHS compliant and compatible

Typical Applications

- Low profile keyboards
- Instrumentation
- Industrial control
- Medical
- Military

Specification

CONTACT ARRANGEMENT: SPST, N.O.
DOUBLE OVERMOLDING ON TERMINAL
SEALING: IP40 (KSB) AND IP60
TERMINALS: PC pins

Mechanical

Type	Actuation force Newtons	Operating life (operations)
KSB0M110	1.2 - 2.0	100,000
KSB0M410	2.25 - 3.75	500,000
KSF0M211	1.0 - 2.0	100,000
KSF0M311	1.4 - 2.4	500,000
KSF0M411	2.25 - 3.75	100,000
KSF0M511	4.2 - 6.25	100,000
KSF0M911	2.3 - 3.9	500,000

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 (50 Hz, 1 min.):	300 Vrms	
CONTACT RESISTANCE: KSF 100 m Ω ; KSB 100 m Ω		
INSULATION RESISTANCE (100 V): $\leq 10^9 \Omega$		
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

KSF can be delivered in tubes of 65 pieces for automatic insertion or boxes of 500 parts. KSB in boxes of 500 pieces for manual insertion.

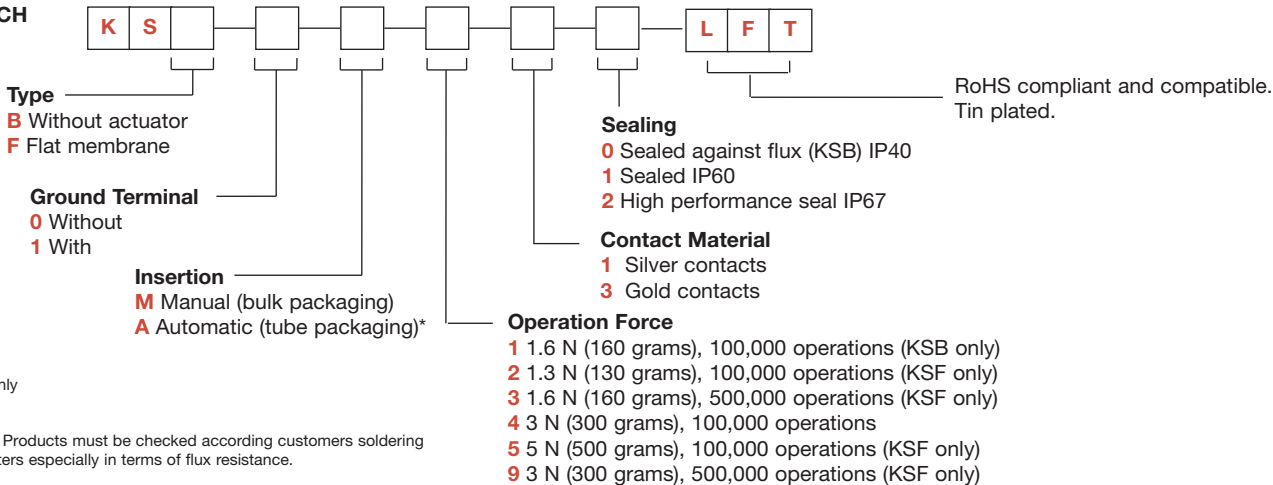
How To Order

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



BUTTON for KSF Button must be ordered separately and will be supplied in bulk.

Button Style
K10 10 mm square



Button Color
10 Dark gray
20 Light gray
30 Yellow
40 Red
50 Green
60 Blue
70 Gray-blue
80 Ivory
90 Black

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



KSB & KSF Series

Low-profile Tact Switch

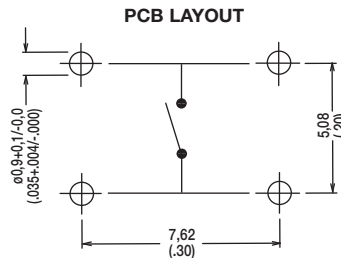
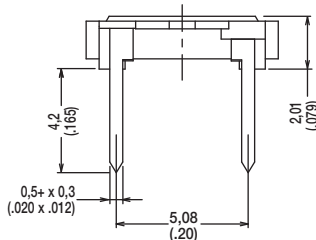
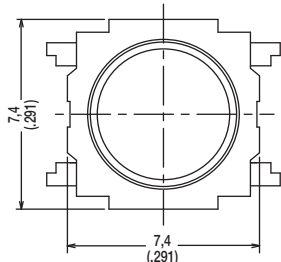
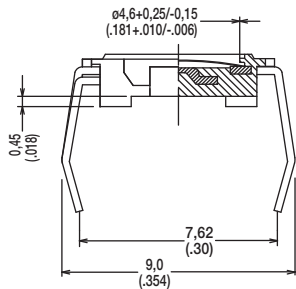
Tactile Switches

B

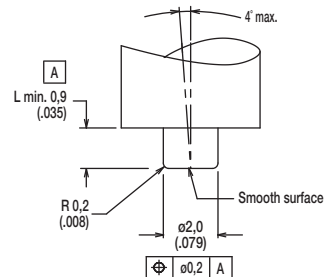
KSB



KSB0M110



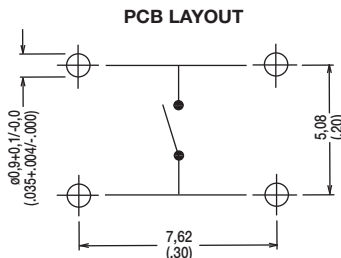
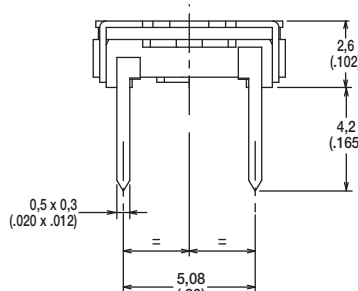
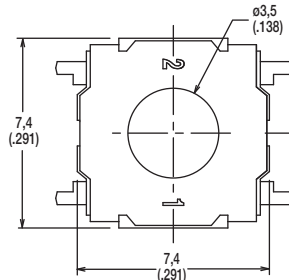
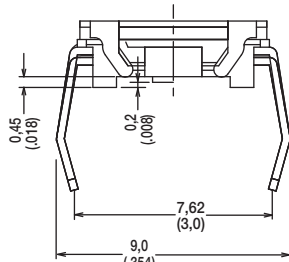
RECOMMENDED SHAPE OF ACTUATOR



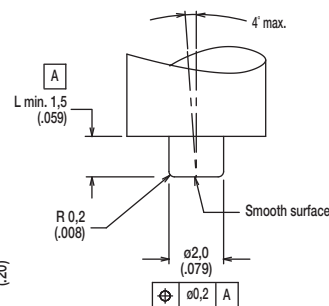
KSF



KSF0M111

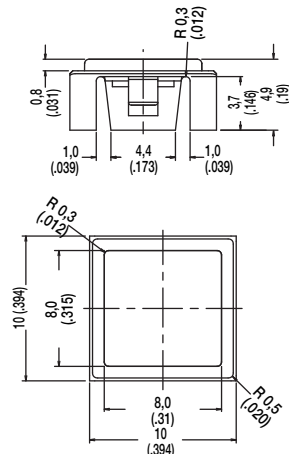
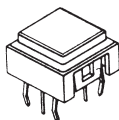


RECOMMENDED SHAPE OF ACTUATOR



BUTTON

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



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).

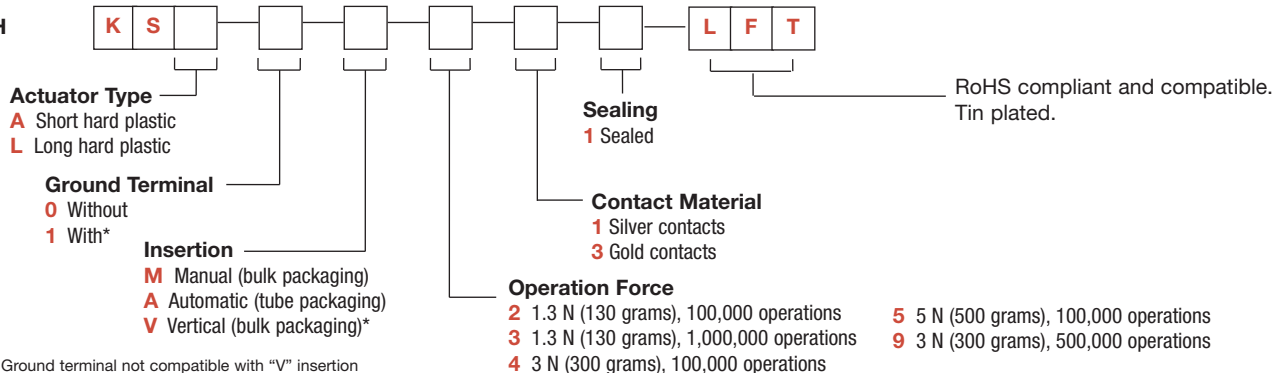
How To Order

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.

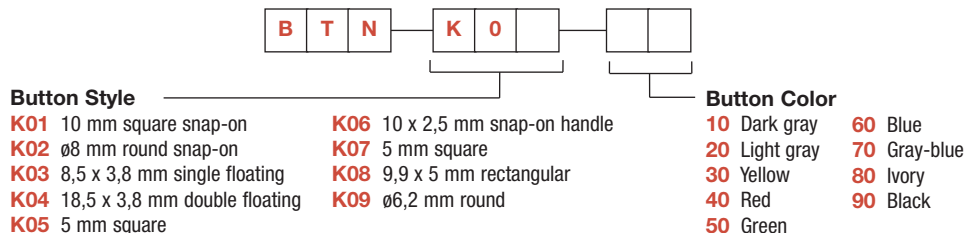
For any part number different from those listed above, please consult your local representative.

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.



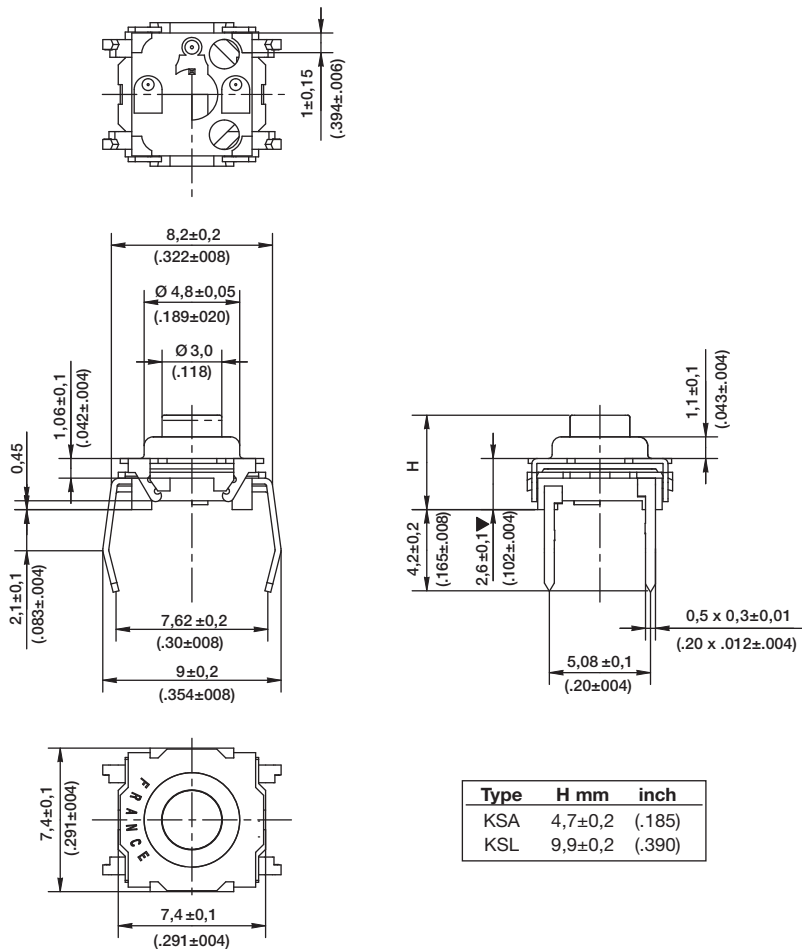
KSA & KSL Series
Sealed Tact Switch

ACTUATOR TYPE

KSA & KSL

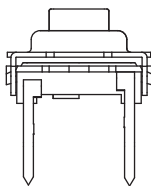
Tactile Switches

B

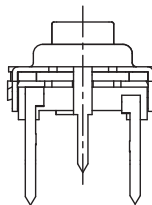


GROUND TERMINAL

0 WITHOUT



1* WITH



*Not compatible with "V" insertion

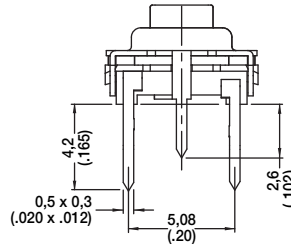
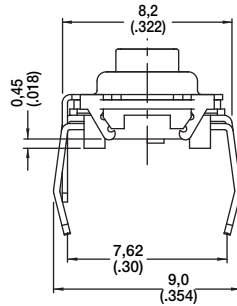


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

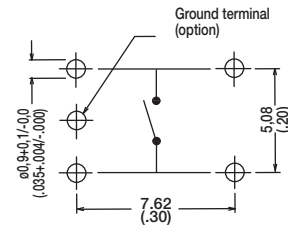
KSA & KSL Series Sealed Tact Switch

INSERTION

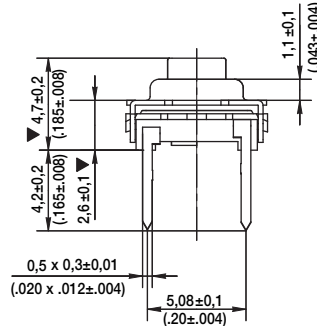
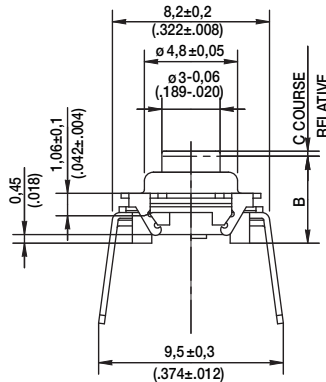
M MANUAL (BULK PACKAGING)



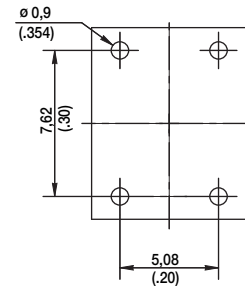
PCB LAYOUT



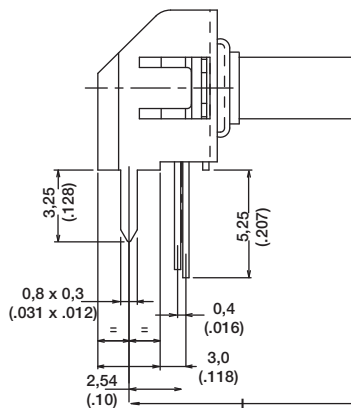
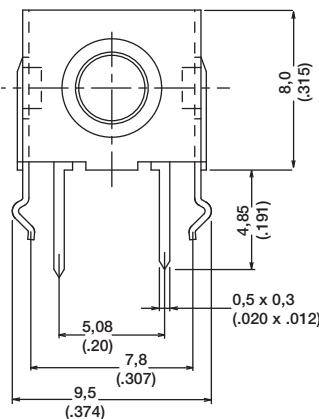
A AUTOMATIC (TUBE PACKAGING, 65 PIECES PER TUBE)



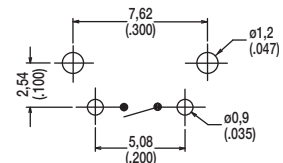
PCB LAYOUT



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



First Angle
Projection

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



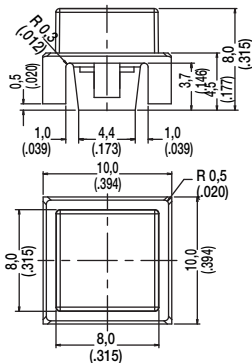
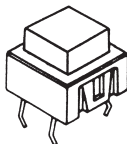
OPTION CODE	SEALING
1	Totally sealed - sealed IP64

BUTTONS

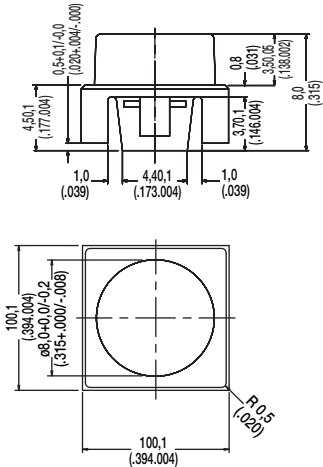
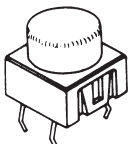
Buttons must be ordered separately and will be supplied in bulk.

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

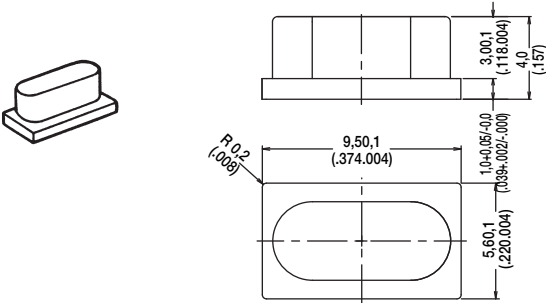


First Angle
Projection

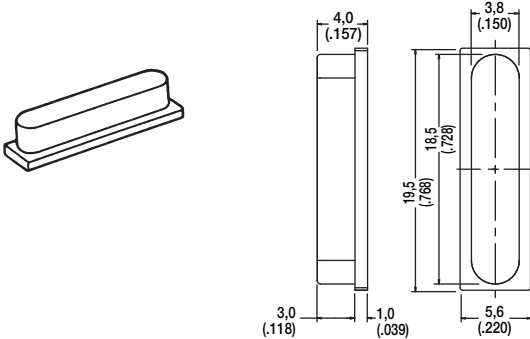
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

KSA & KSL Series Sealed Tact Switch

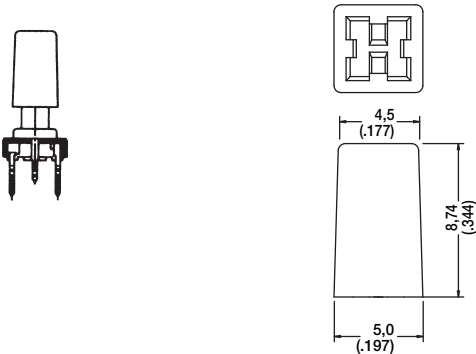
K03



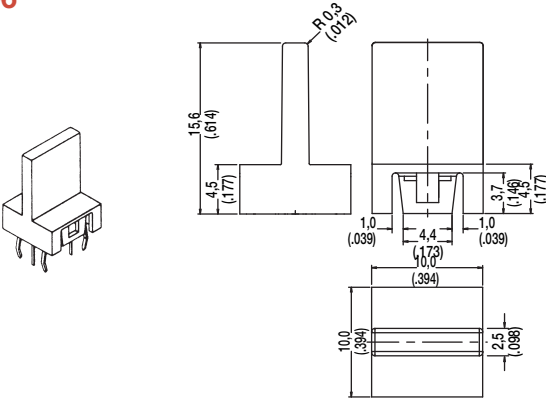
K04



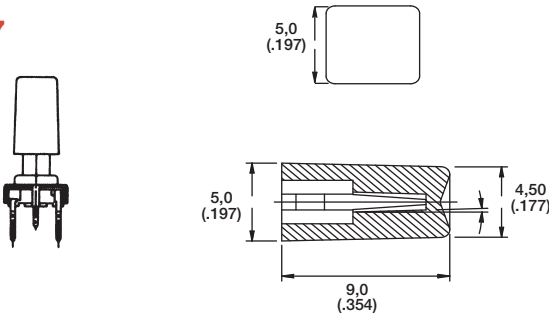
K05



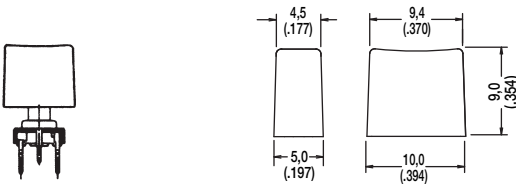
K06



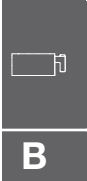
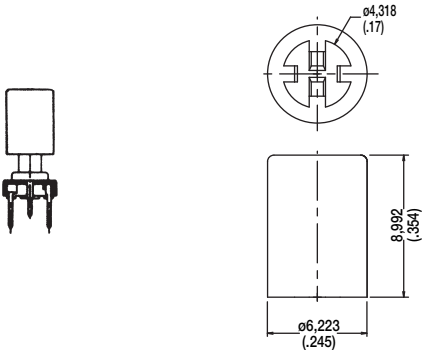
K07



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

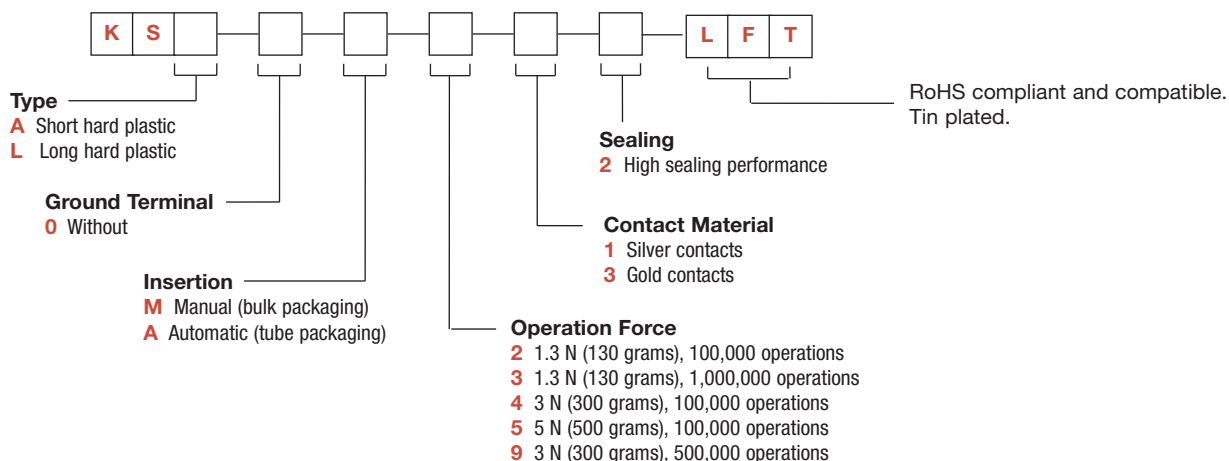
Wave soldering compatible with lead free soldering profile.

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.

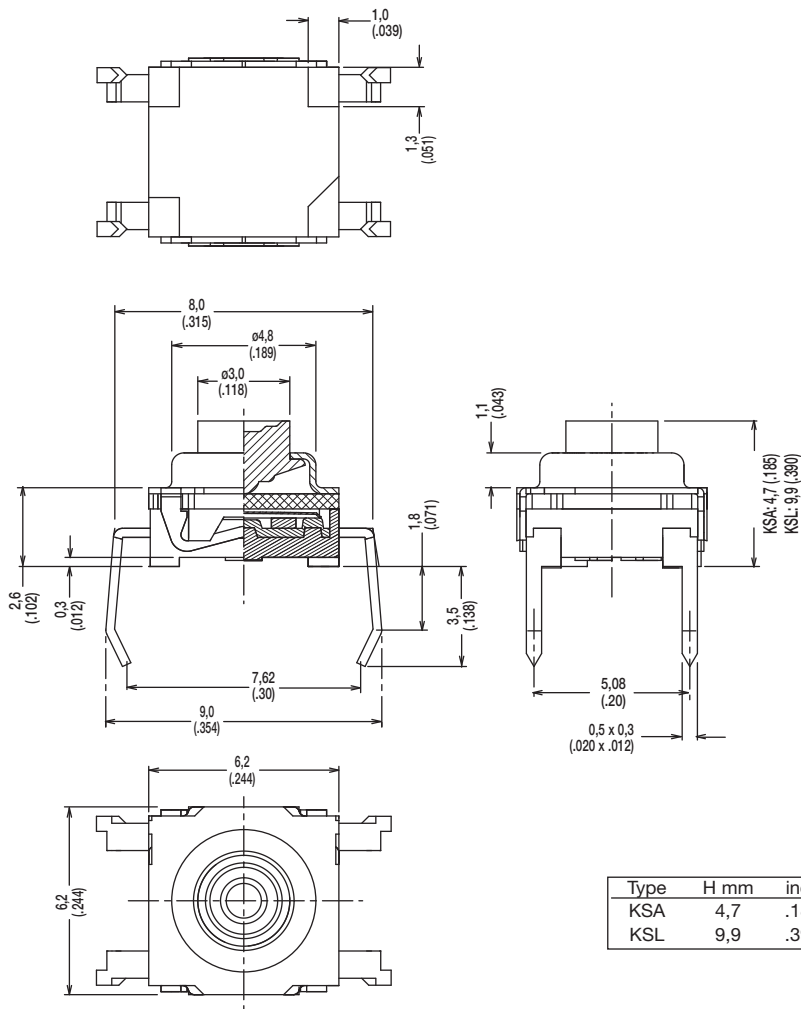
For any part number different from those listed above, please consult your local representative.



KSA & KSL MKII Series High Performance Sealed Tact Switch

TYPE

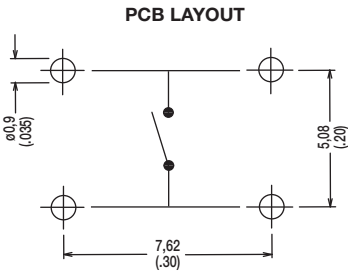
KSA & KSL **MANUAL (BULK PACKAGING) DRAWING SHOWN**



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

Tactile Switches

B



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.

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 (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

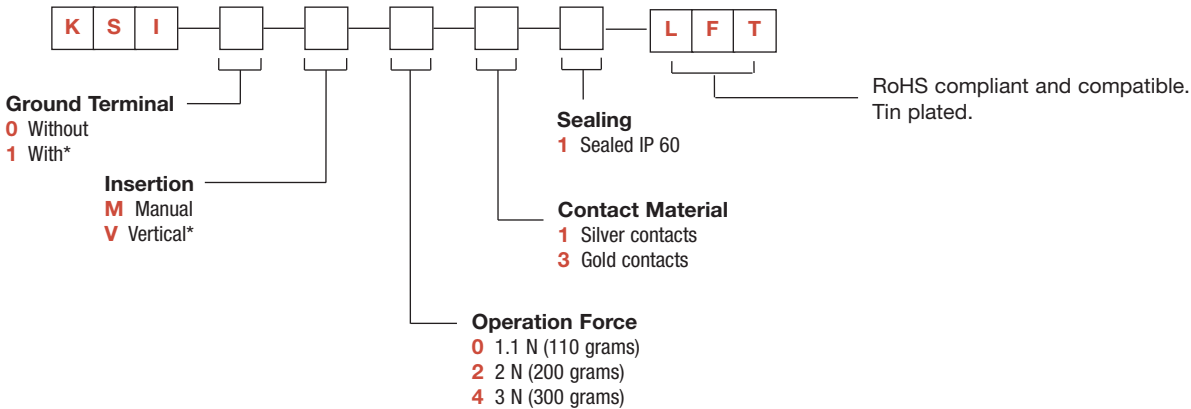
Wave soldering, compatible with lead free soldering profile.

How To Order

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.

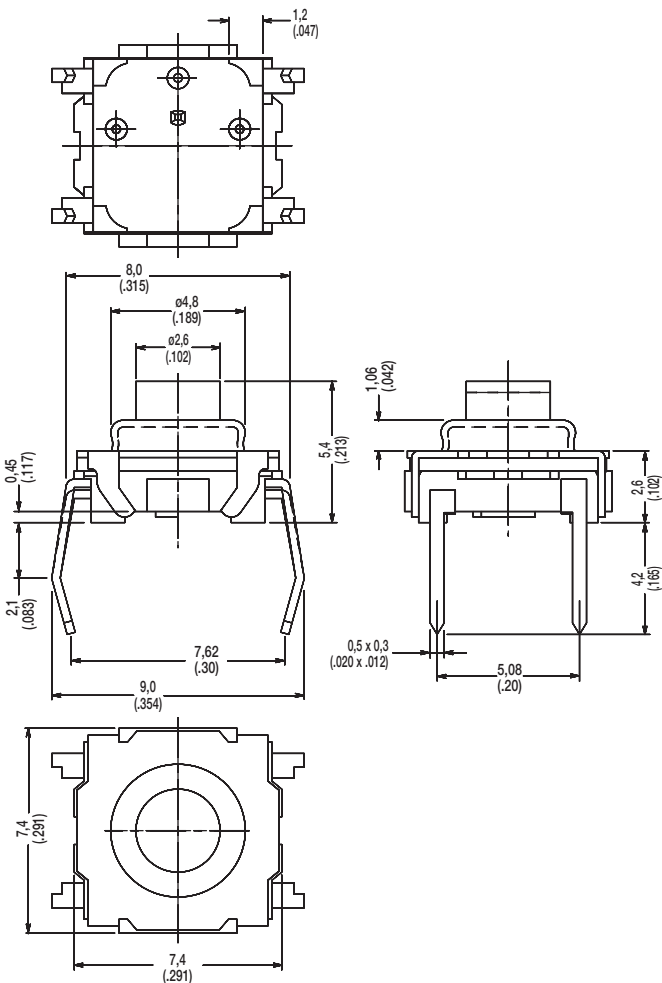
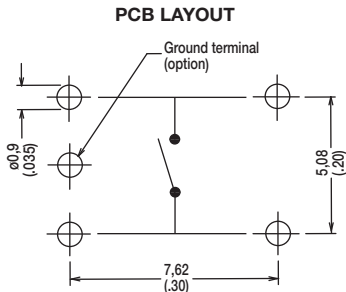


*Note: "1" Ground terminal not compatible with "V" insertion

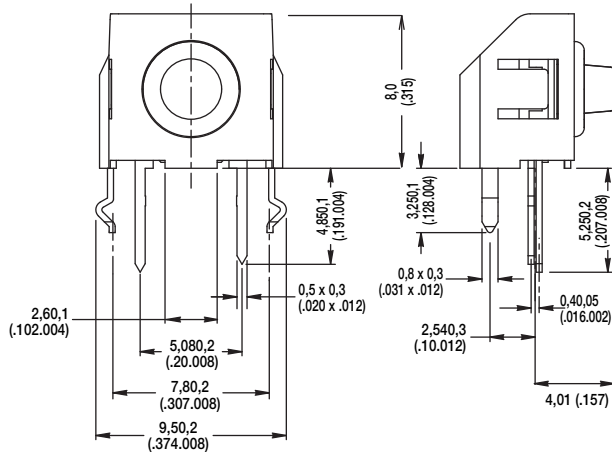
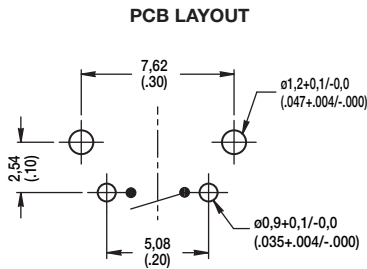
KSI Series
Sealed Tact Switches

KSI

M MANUAL



V VERTICAL



First Angle
Projection

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



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.
For information on specific and custom switches, consult Customer Service Center.

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.

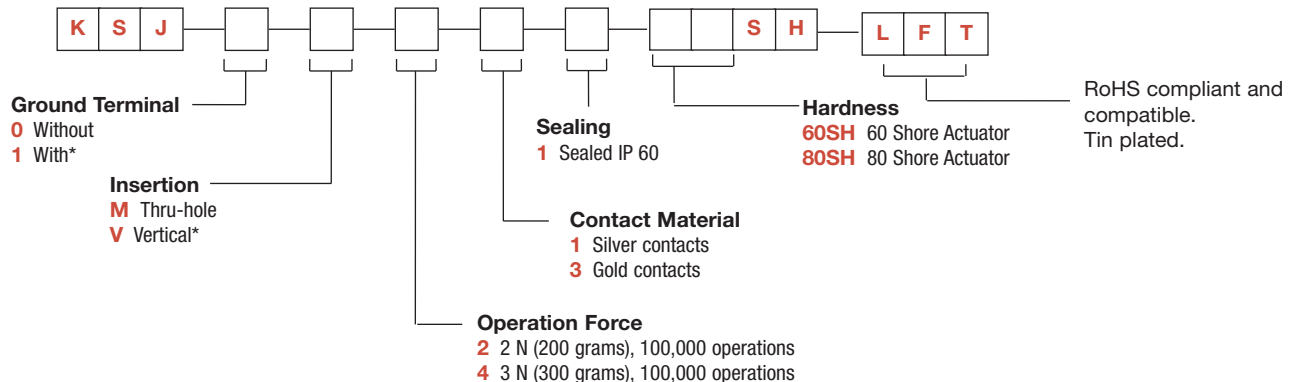
* Please contact your C&K representative for any question regarding the product integration.

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.

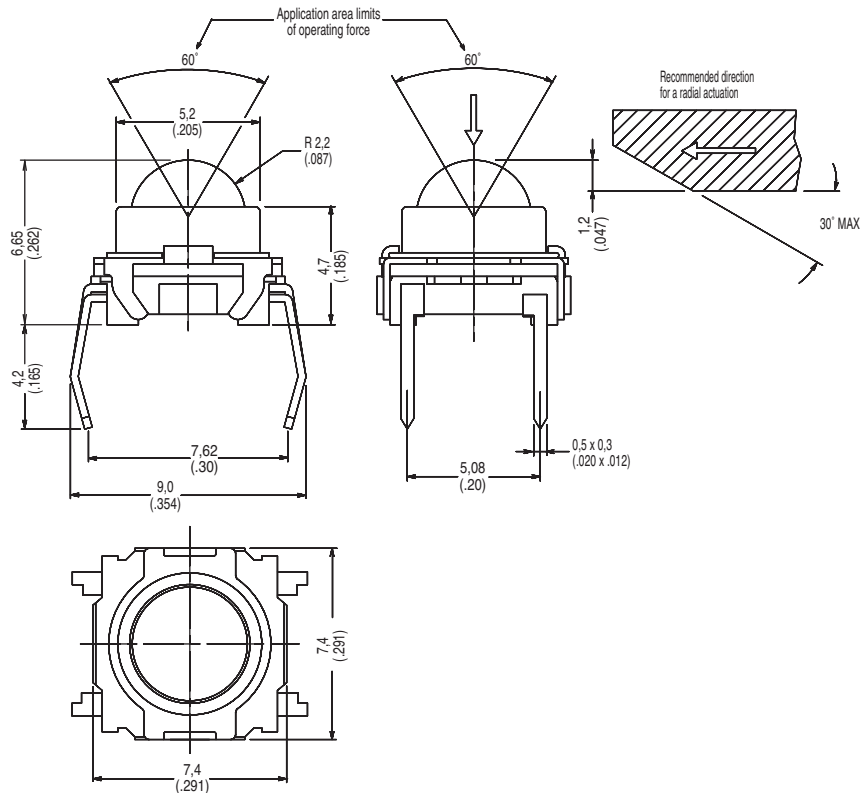
However, please note that all the combinations of these options are not feasible.

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

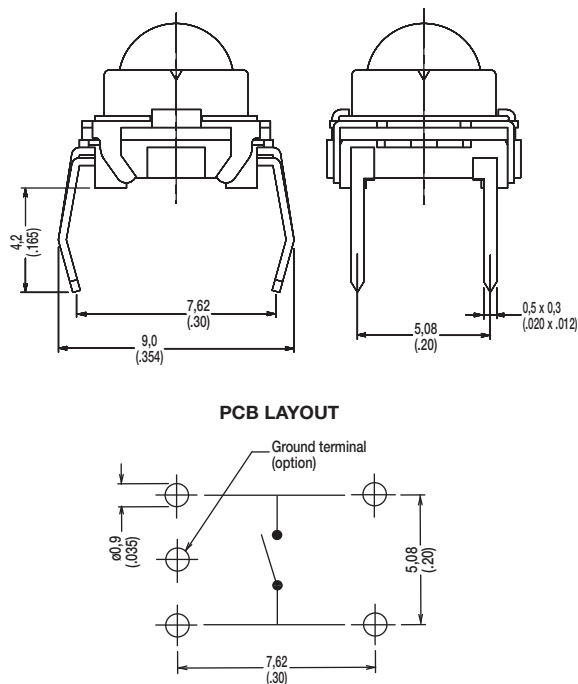


B

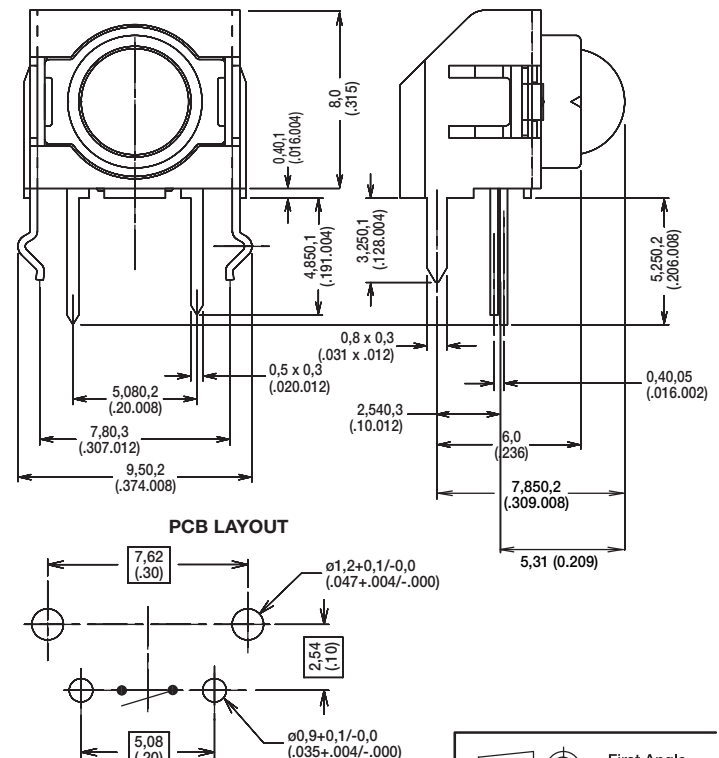
Tactile Switches

INSERTION

M THRU-HOLE



V VERTICAL



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

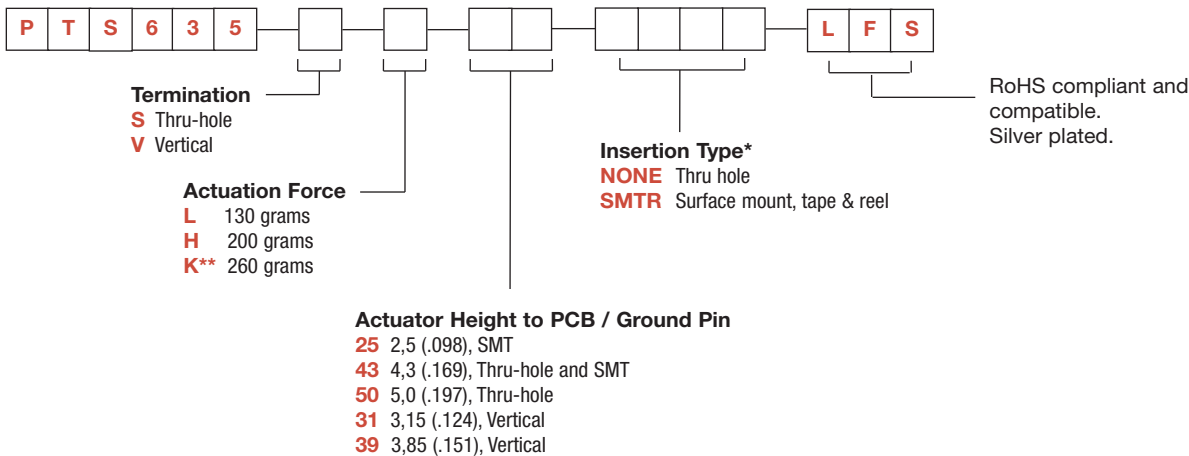
Bulk packaging.

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.



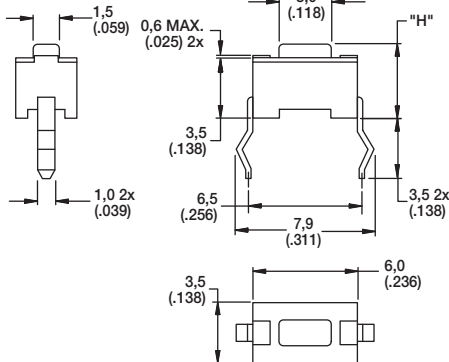
* SM and SMTR only available with PTS635 43 and 25 actuator options.

** Only for the PTS635Sx25SMTR.

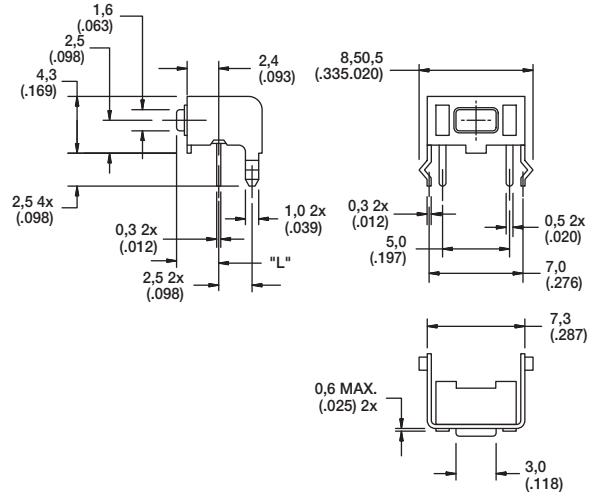
PTS635 Series 3,5 mm Tact Switches

SERIES

PTS635



PTS635S Model



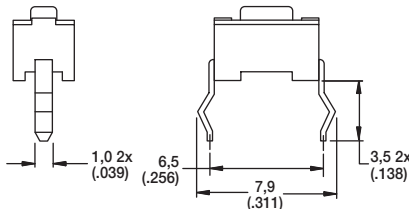
B

Tactile Switches

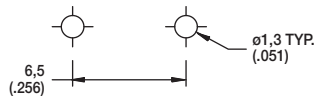
TERMINATION



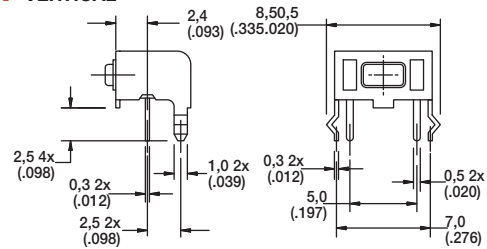
S THRU-HOLE



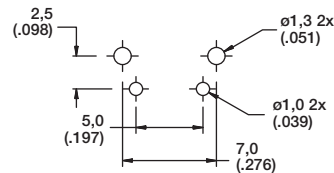
PCB LAYOUT



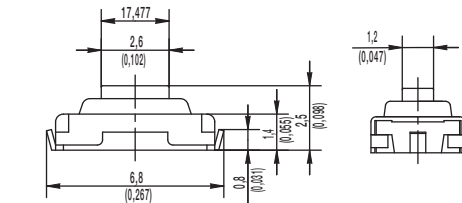
V VERTICAL



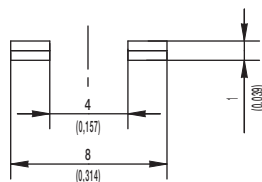
PCB LAYOUT



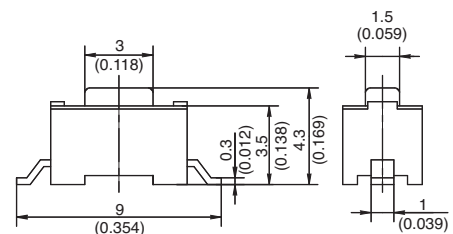
SMT 25



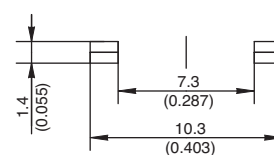
PCB LAYOUT



SMT 43



PCB LAYOUT



First Angle
Projection

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



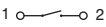
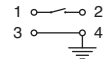
PTS635 Series

3,5 mm Tact Switches

ACTUATION FORCE

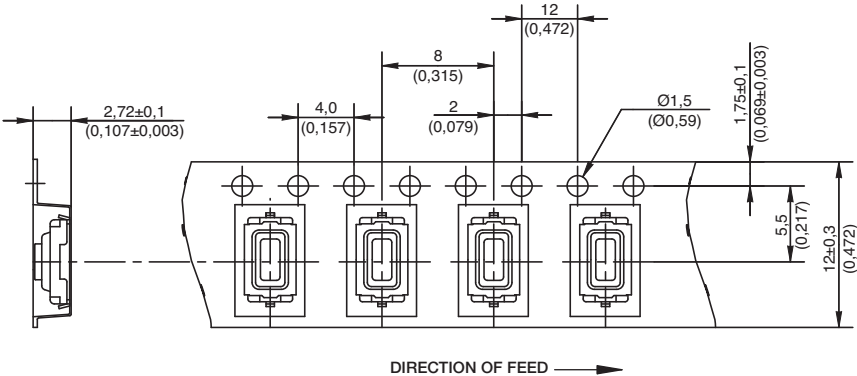
OPTION CODE	FORCE
L	130 grams
H	200 grams

ACTUATOR HEIGHT

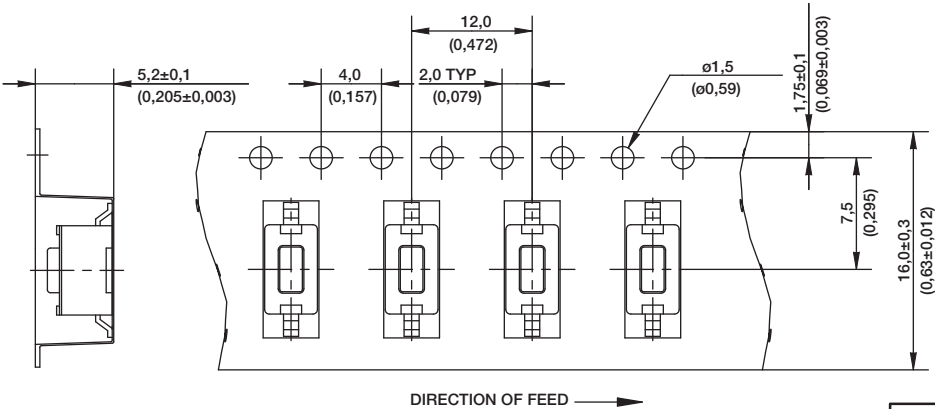
OPTION CODE	HEIGHT "H" or LENGTH "L"	TERMINATION	SCHEMATIC
43	4,3 (.169)	Thru-hole	
50	5,0 (.197)	Thru-hole	
31	3,15 (.124)	Vertical	
39	3,85 (.151)	Vertical	

INSERTION TYPE

SMT 25



SMT 43



First Angle Projection



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

B



Tactile Switches

Technical drawing of a mechanical part with dimensions in inches and millimeters:

- Overall width: 6.5 (.256)
- Overall height: 7.1 (.280)
- Bottom left width: 0.3 (.012)
- Bottom left height: 2.5 (.098)
- Bottom right width: 1.0 (.039)
- Bottom right height: 2.55 (.100)
- Bottom center width: "H"

[illegible]

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

Front View Dimensions:

- Overall width: 7.9" (.311")
- Distance from centerline to the center of the handle: 4.1" (.161")
- Distance from centerline to the center of the stem: 0.7" TYP (.028")
- Distance from centerline to the center of the stem (right side): 0.7" (.028")
- Distance from centerline to the center of the stem (left side): 0.3" (.012")
- Distance from centerline to the center of the stem (right side, top view): 3.5" (.138")
- Distance from centerline to the center of the stem (right side, top view): 6.5" (.256")
- Distance from centerline to the center of the stem (right side, top view): 1.8" (.071")

Top View Dimensions:

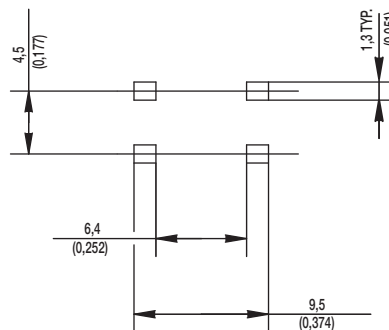
- Distance from centerline to the center of the stem: 4.5" (.177")

Technical drawing of a mechanical part with dimensions in inches and millimeters:

- Top left dimension: $\phi 1.0$ TYP. (.039)
- Top right dimension: 2.5 (.098)
- Left side dimension: 4.5 (.177)
- Bottom dimension: 7.0 (.276)

The technical drawing shows two views of the 60 SQ. fitting:

- Side View (Top):** Shows the profile of the fitting. The top flange has an outer diameter of $\varnothing 3,5$ ($(\varnothing 0,138)$). The main body has an outer diameter of 9,0 ($(0,354)$). The height from the base to the top of the main body is 3,6 ($(0,142)$). A dimension line labeled "DIM H" indicates the total height.
- Front View (Bottom):** Shows the end view of the fitting. It features a central circular port surrounded by four smaller ports. The distance between the centers of opposite side ports is 6,0 SQ. ($(0,236)$). The overall width of the fitting is 4,5 ($(0,177)$).



www.ck-components.com

PTS645 Series 6 mm Tact Switches

ACTUATION FORCE



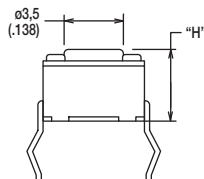
OPTION CODE	FORCE
L	130 grams
M	160 grams
H	200 grams
K	260 grams

ACTUATOR HEIGHT

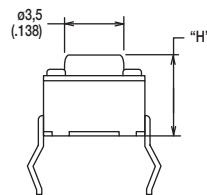


OPTION CODE	HEIGHT "H" or LENGTH "L"	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole		
95	9,5 (.374)	Thru-hole		
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)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

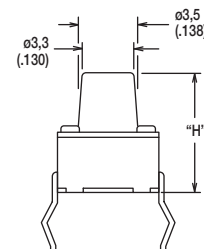
43



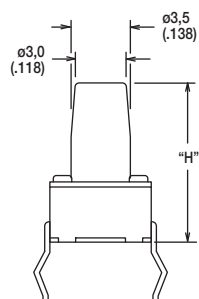
50



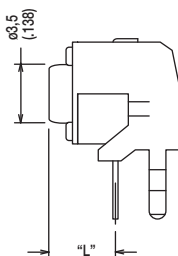
70



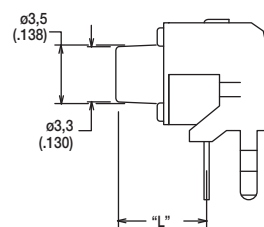
95



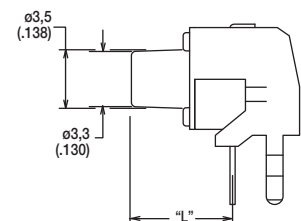
31



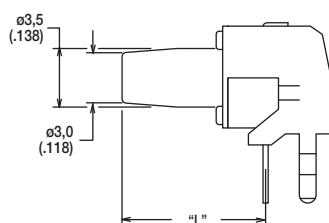
39



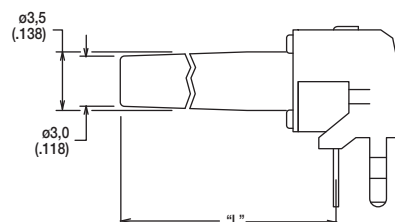
58



83



15



First Angle
Projection



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

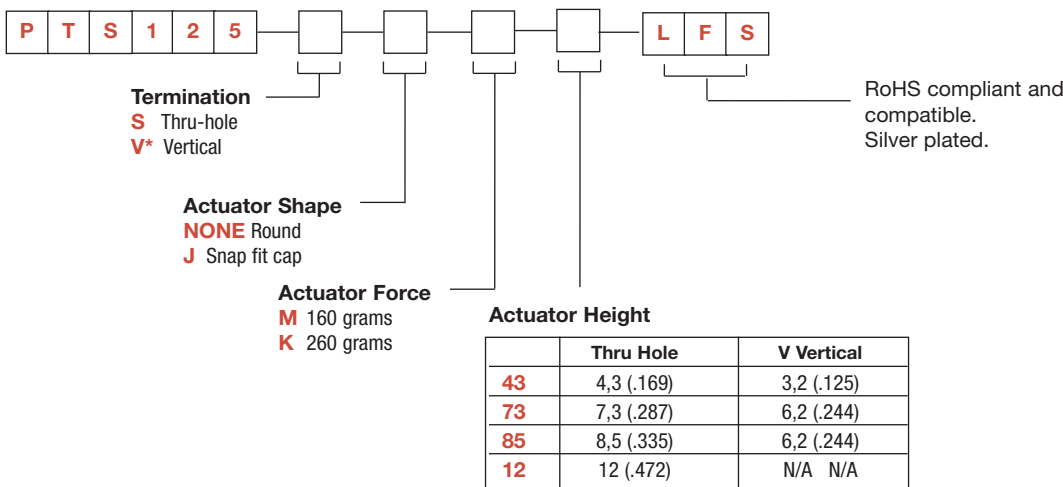
BASE: 6/6 nylon or glass filled polyester (PBT) (UL 94V-0).
ACTUATOR: PBT (UL94V0) or polyacetal (UL 94HB).
COVER PLATE: Tin alloy.
DOME CONTACTS: Phosphor bronze, silver clad.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated. Insert molded.

Packaging

Tube packaging.

How To Order

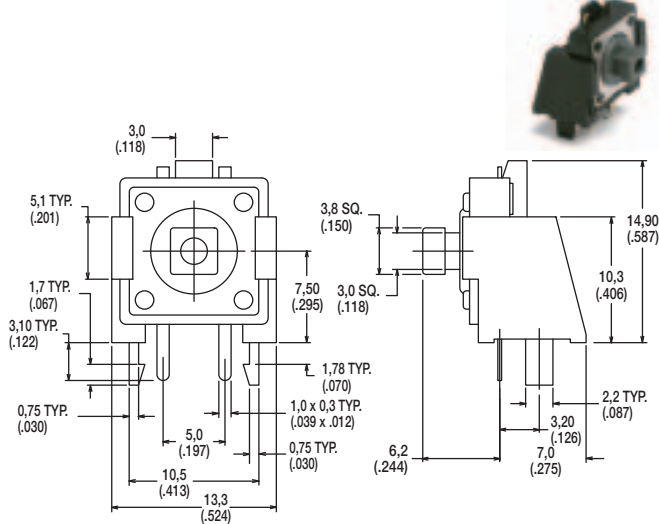
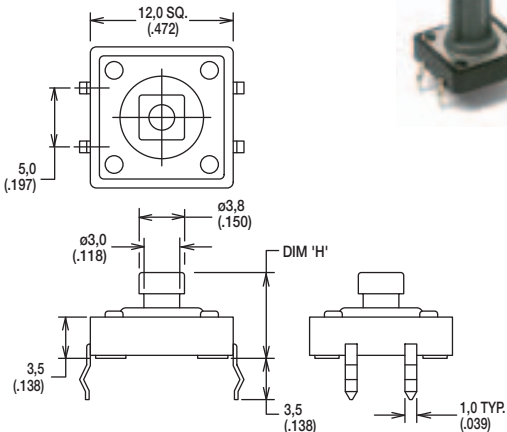
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and and place it in the appropriate box.



* V option available with J73 actuator only.

PTS125 Series
12 mm Tact Switches

SERIES

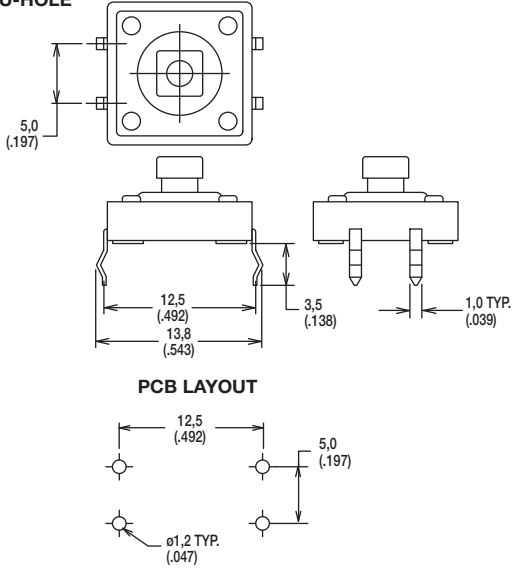


B

Tactile Switches

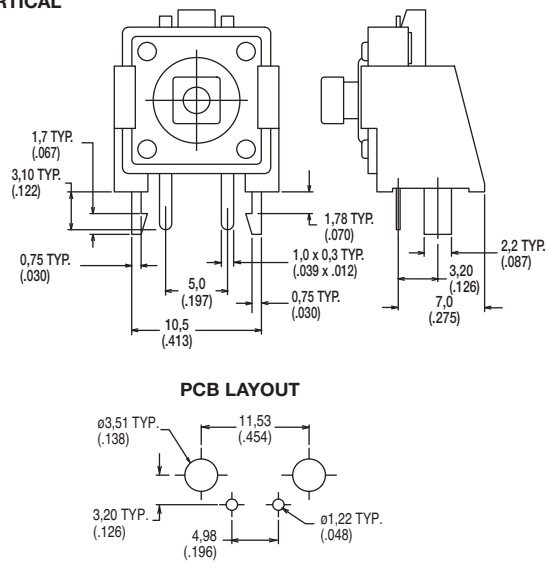
TERMINATION

S THRU-HOLE



PCB LAYOUT

V VERTICAL

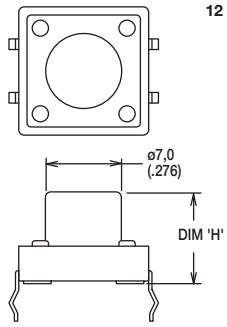


PCB LAYOUT

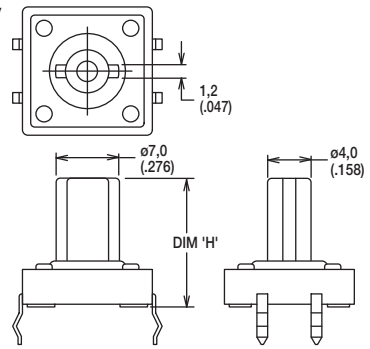
ACTUATOR SHAPE

NONE ROUND

43 and 85 heights only

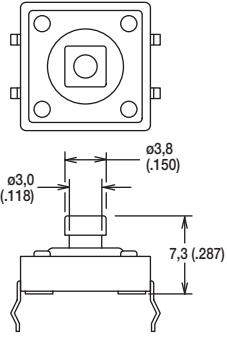


12 height only



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 

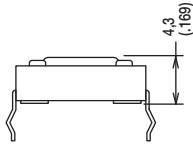
OPTION CODE	FORCE
M	160 grams
K	260 grams

B

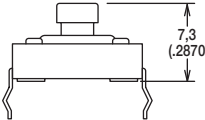
Tactile Switches

ACTUATOR HEIGHT 

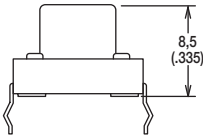
43 4,3 mm



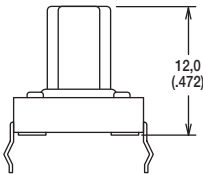
73 7,3 mm SNAP-FIT



85 8,5 mm



12 12 mm



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