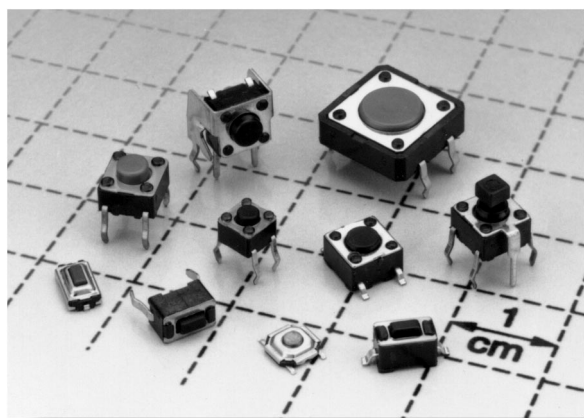


C&K PTS Series Subminiature Tactile Switches



Features/Benefits

- **Cost-effective solution**
- **Long life contact design**
- **Variety of actuator styles and package sizes**
- **Multiple actuation forces**

Typical Applications

- **Consumer products**
- **Instrumentation**
- **Computer Products**
- **Hand-held devices**

Specifications

CONTACT RATING: 50 mA @ 12 V DC.

MECHANICAL & ELECTRICAL LIFE: 20,000 operations for PTS635S/V models; 25,000 operations for PTS453S/T models; 100,000 operations for PTS645S/T, PTS645V, PTS645S/TJ and PTS645VJ models; 200,000 operations for PTS125S models. 300,000 for PTS525 models.

CONTACT RESISTANCE: 100 milliohms max. initial.

INSULATION RESISTANCE: $10^9 \Omega$ min.

DIELECTRIC STRENGTH: 250 V AC min.

OPERATING TEMPERATURE: -10°C to 60°C .

SOLDERABILITY: 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 soldering surface. Do not clean switch with solvents. SMT capable of IR solder process, no cleaning process.

Materials

BASE: 6/6 nylon or glass filled polyester (PBT) (UL 94HB).

ACTUATOR: 6/6 nylon or polyacetal (UL 94HB).

COVER PLATE: PTS453S, PTS635S, PTS635V models:

Tin-plated brass; PTS453T, PTS125, PTS645T, PTS645V, PTS645TJ, PTS645VJ models: Tin alloy; PTS645S models (Including TR): Polyester.

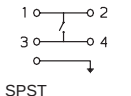
DOMES CONTACTS: PTS635 models-stainless steel, silver clad; all other models-phosphor bronze, silver clad.

STATIONARY CONTACTS: Brass, silver plated.

TERMINALS: Brass, silver plated. All terminals insert molded.

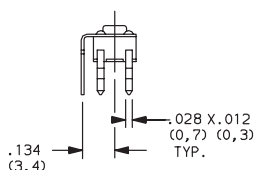
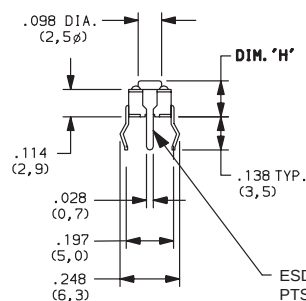
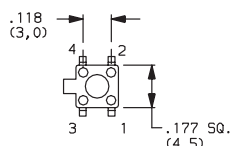
PACKAGING: Bulk packaging standard for PTS453, PTS635 and PTS645 models. Tube packaging standard for all PTS125 models. Radial tape packaging available on PTS645S models; when ordering, add suffix 'TR' to part number. Switches supplied 1,000 pieces per box.

4.5 x 4.5mm Models

PART NUMBER	PART NUMBER (With ESD Pin)	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC (With ESD Pin)	SCHEMATIC
PTS453SL38	PTS453TL38	130 g	0.150 (3,8)	Black		

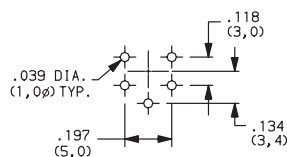


PTS453TL38
SPST

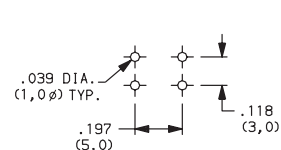


ESD PIN WITH
PTS453TL38
MODEL ONLY

PC MOUNTING
(With ESD Pin)



PC MOUNTING



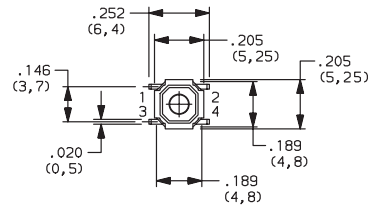
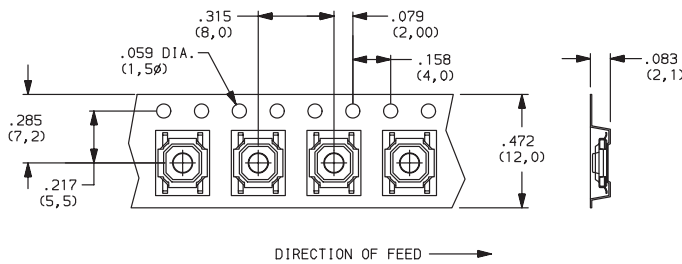
C&K PTS Series Subminiature Tactile Switches

5.25 x 5.25mm Surface Mount Model

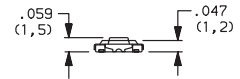
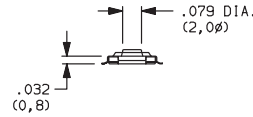
PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS525SM10SM	130 g	Black	

NOTE: Add suffix 'TR' to part number for tape and reel packaging.

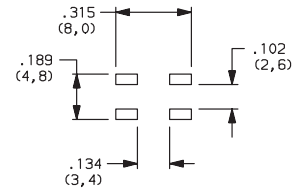
TAPE & REEL PACKAGING



PTS525SM10SM
SPST



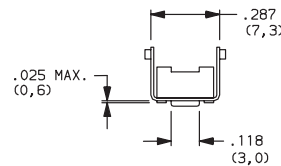
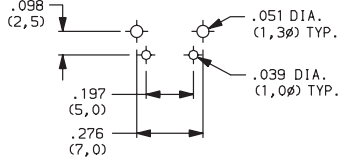
PC MOUNTING



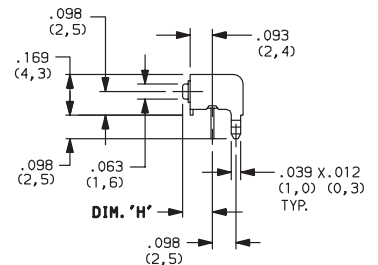
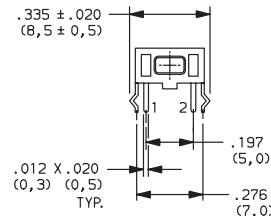
6 x 3.5mm Right Angle Models

PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS635VL31	130 g	0.124 (3,15)	Black	
PTS635VL39	130 g	0.151 (3,85)	Black	
PTS635VH31	200 g	0.124 (3,15)	Gray	
PTS635VH39	200 g	0.151 (3,85)	Gray	

PC MOUNTING



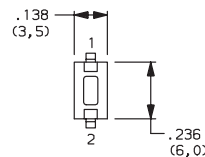
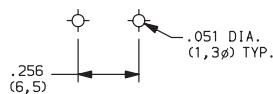
PTS635VL31
SPST



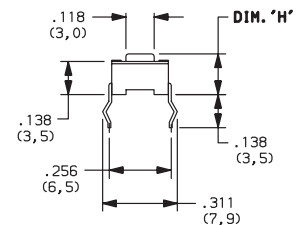
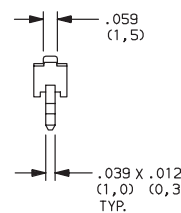
6 x 3.5mm Models

PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS635SL43	130 g	0.169 (4,3)	Black	
PTS635SL50	130 g	0.197 (5,0)	Black	
PTS635SH43	200 g	0.169 (4,3)	Gray	
PTS635SH50	200 g	0.197 (5,0)	Gray	

PC MOUNTING



PTS635SL43
SPST

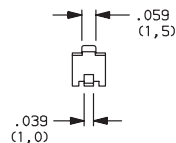
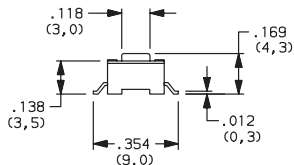
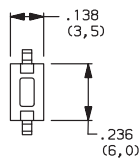


C&K PTS Series Subminiature Tactile Switches

6 x 3.6mm Surface Mount Models

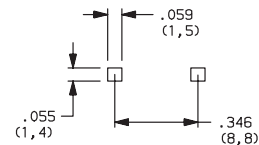


PTS635SL43SM
SPST



PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS635SL43SM	130 g	Black	 SPST
PTS635SH43SM	200 g		

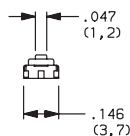
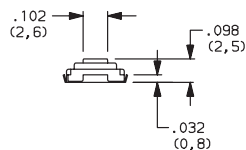
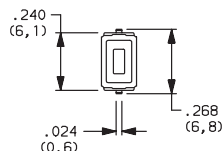
PC MOUNTING



6.1 x 3.7mm Surface Mount Models



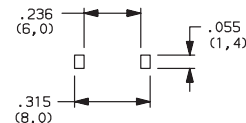
PTS635SL25SM
SPST



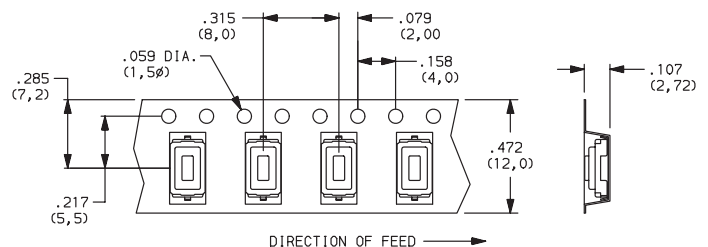
PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS635SL25SM	130 g	Black	 SPST
PTS635SK25SM	260 g	Red	

NOTE: Add suffix 'TR' to part number for tape and reel packaging.

PC MOUNTING



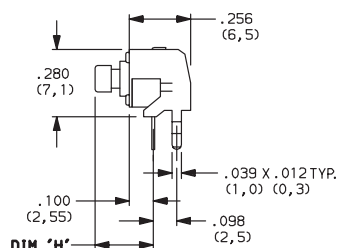
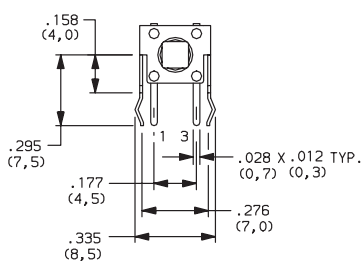
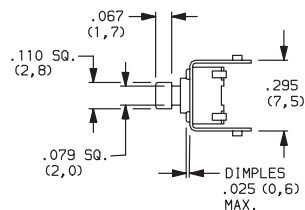
TAPE & REEL PACKAGING



6 x 6mm Right Angle Models



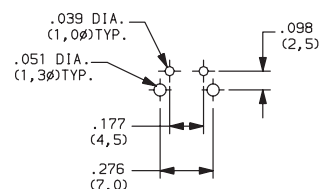
PTS645VJL61
SPST



PART NUMBER (With ESD Pin)	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS645VJL61	130 g	0.242 (6,15)	Black	 SPST
PTS645VJH61	200 g	0.242 (6,15)	Gray	

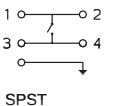
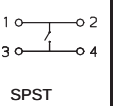
NOTE: 160 g version available; to specify part number, replace 'L' or 'H' with 'M'; actuator color is blue. 260 g version available; to specify part number, replace 'L' or 'H' with 'K'; actuator color is red.

PC MOUNTING



C&K PTS Series Subminiature Tactile Switches

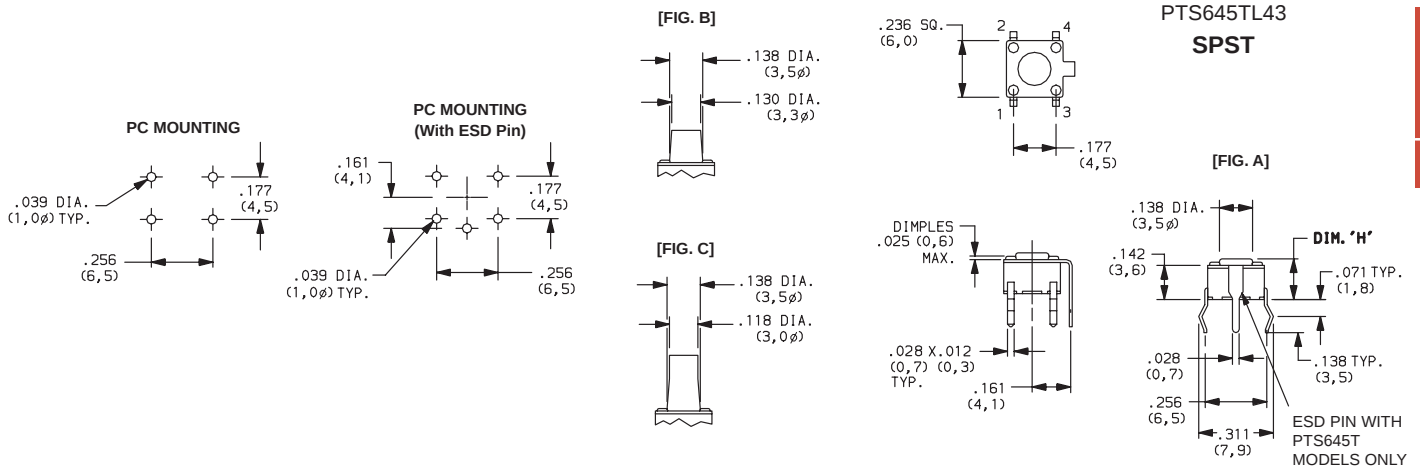
6 x 6 mm Models

PART NUMBER	PART NUMBER (With ESD Pin)	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	FIG.	SCHEMATIC (With ESD Pin)	SCHEMATIC
PTS645SL43	PTS645TL43	130 g	0.169 (4,3)	Black	A	 SPST	 SPST
PTS645SL50	PTS645TL50	130 g	0.197 (5,0)	Black	A		
PTS645SL70	PTS645TL70	130 g	0.275 (7,0)	Black	B		
PTS645SL95	PTS645TL95	130 g	0.374 (9,5)	Black	C		
PTS645SH43	PTS645TH43	200 g	0.169 (4,3)	Gray	A		
PTS645SH50	PTS645TH50	200 g	0.197 (5,0)	Gray	A		
PTS645SH70	PTS645TH70	200 g	0.275 (7,0)	Gray	B		
PTS645SH95	PTS645TH95	200 g	0.374 (9,5)	Gray	C		

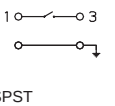
NOTE: 160 g version available; to specify part number, replace 'L' or 'H' with 'M'; actuator color is blue. 260 g version available; to specify part number, replace 'L' or 'H' with 'K'; actuator color is red.



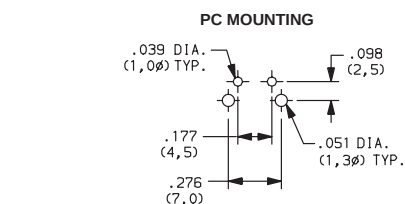
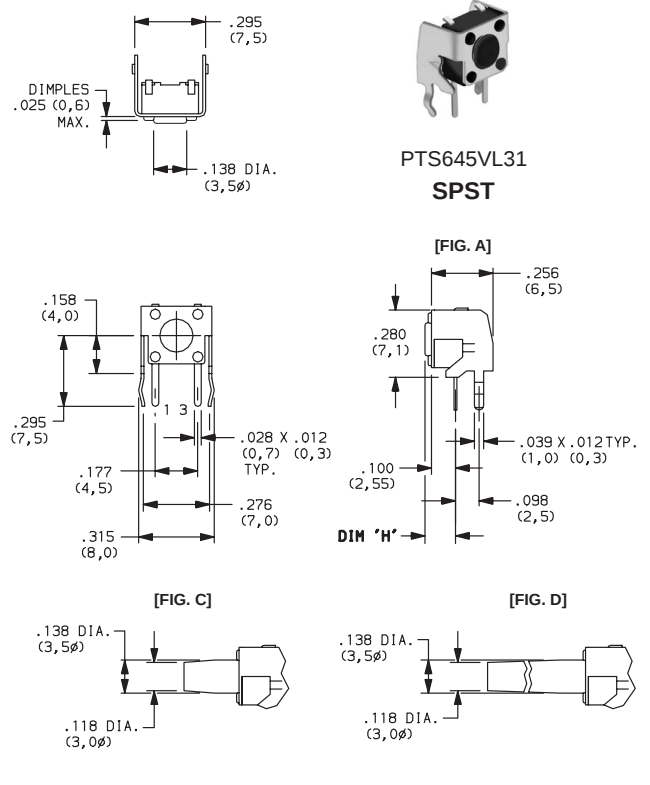
PTS645TL43
SPST



6 x 6 mm Models Right Angle Models

PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	FIG.	SCHEMATIC
PTS645VL31	130 g	0.124 (3,15)	Black	A	 SPST
PTS645VL39	130 g	0.151 (3,85)	Black	A	
PTS645VL58	130 g	0.230 (5,85)	Black	B	
PTS645VL83	130 g	0.329 (8,35)	Black	C	
PTS645VL15	130 g	0.624 (15,85)	Black	D	
PTS645VH31	200 g	0.124 (3,15)	Gray	A	
PTS645VH39	200 g	0.151 (3,85)	Gray	A	
PTS645VH58	200 g	0.230 (5,85)	Gray	B	
PTS645VH83	200 g	0.329 (8,35)	Gray	C	
PTS645VH15	200 g	0.624 (15,85)	Gray	D	

NOTE: 160 g version available; to specify part number, replace 'L' or 'H' with 'M'; actuator color is blue. 260 g version available; to specify part number, replace 'L' or 'H' with 'K'; actuator color is red.



C&K PTS Series

Subminiature Tactile Switches

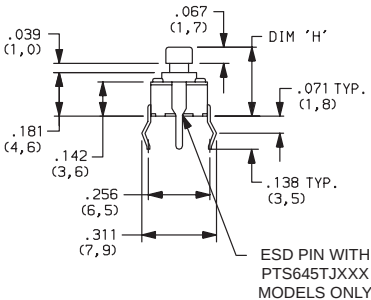
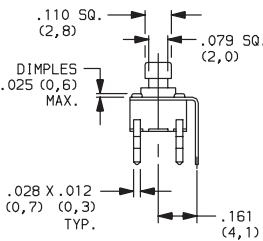
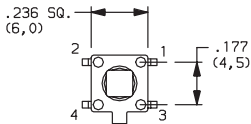
6 x 6mm Models

PART NUMBER	PART NUMBER (With ESD Pin)	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC (With ESD Pin)	SCHEMATIC
PTS645SJL73	PTS645TJL73	130 g	0.287 (7,3)	Black		
PTS645SJH73	PTS645TJH73	200 g	0.287 (7,3)	Gray		

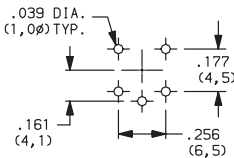
NOTE: 160 g version available. To specify part number, replace 'L' or 'H' with 'M'. Actuator color is blue. 260 g version available. To specify part number, replace 'L' or 'H' with 'K'. Actuator color is red.



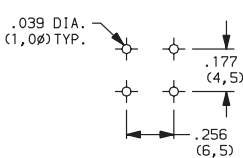
PTS645TJL73
SPST



PC MOUNTING
(With ESD Pin)



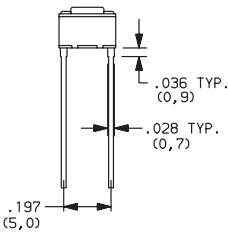
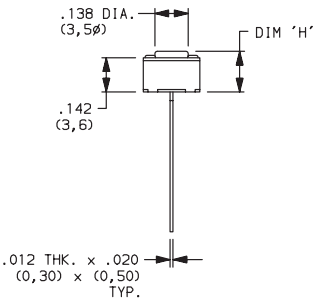
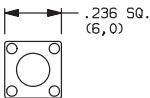
PC MOUNTING



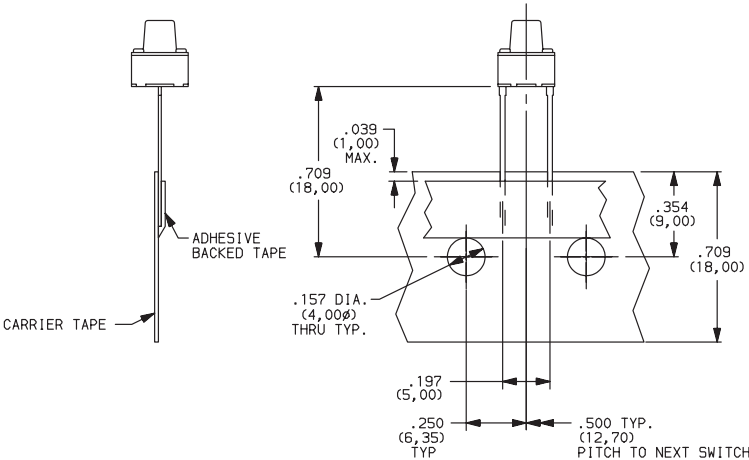
6 x 6mm Models



PTS645SL43TR
SPST



TAPE & REEL PACKAGING



Tactile

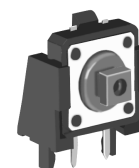
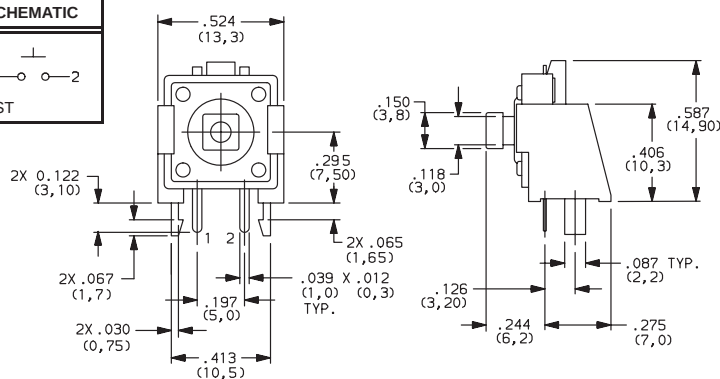
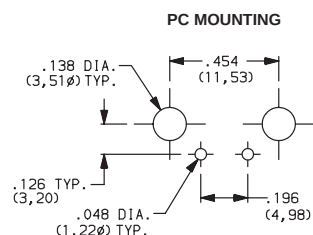
PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS645SL43SM	130 g	Black	 1—○—○2 3—○—○4 SPST
PTS645SH43SM	200 g		

Technical drawing of a square plate. The drawing shows a square with a central circular hole. There are four smaller circular holes, one in each corner. Dimensions and tolerances are indicated:

- Top horizontal dimension: $.236 \text{ SQ.}$ with a tolerance of $(6, 0)$.
- Left vertical dimension: $.177$ with a tolerance of $(4, 5)$.

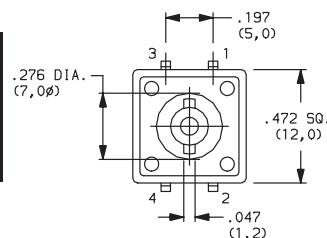


PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS125VJM73	160 g	Gray	 1 — o — 2
PTS125VJK73	260 g	Red	

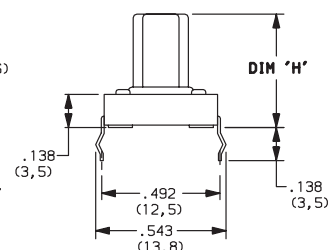
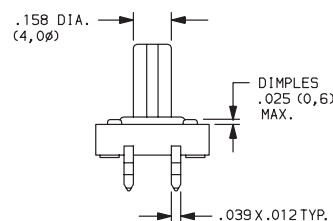
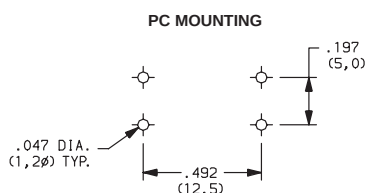


PTS125VJM73
SPST

PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS125SM12	160 g	0.472 (12,0)	Gray	
PTS125SK12	260 g	0.472 (12,0)	Red	SPST



PTS125SM12
SPST

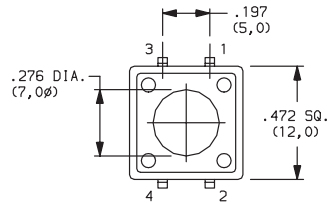


C&K PTS Series Subminiature Tactile Switches

12 x 12mm Models

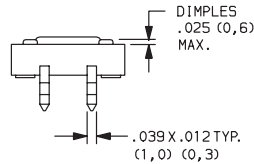
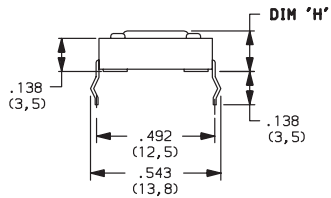
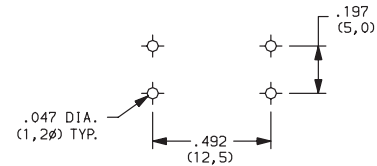


PTS125SM43
SPST



PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS125SM43	160 g	0.169 (4,3)	Gray	
PTS125SK43	260 g	0.169 (4,3)	Red	

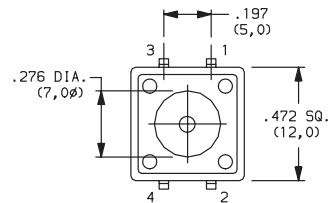
PC MOUNTING



12 x 12mm Models

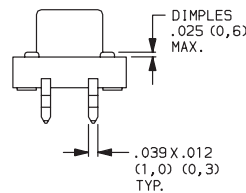
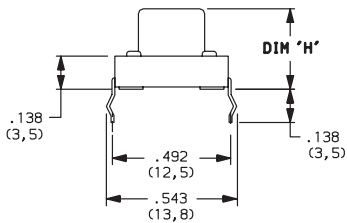
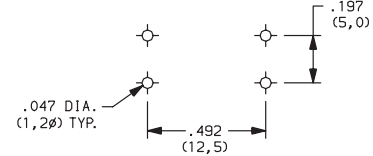


PTS125SM85
SPST



PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS125SM85	160 g	0.335 (8,5)	Black	
PTS125SK85	260 g	0.335 (8,5)	Red	

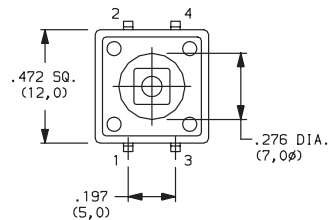
PC MOUNTING



12 x 12mm Models



PTS125SJM73
SPST



PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS125SJM73	160 g	0.287 (7,3)	Gray	
PTS125SJK73	260 g	0.287 (7,3)	Red	

PC MOUNTING

