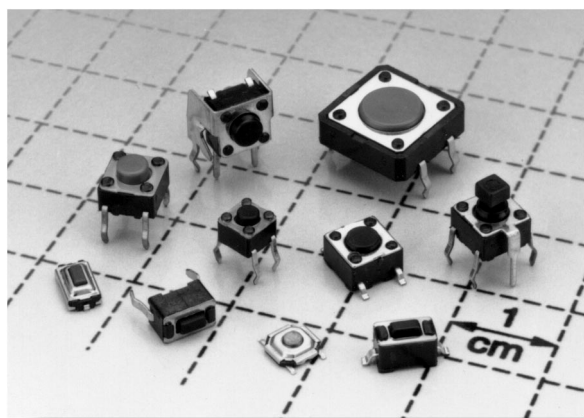


C&K PTS Series Subminiature Tactile Switches



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.

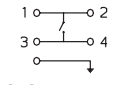
DOMES CONTACTS: PTS635 models-stainless steel, silver clad; all other models-phosphor bronze, silver clad.

STATIONARY CONTACTS: Brass, silver plated.

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

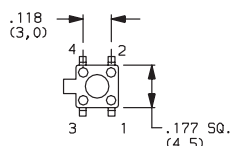
PACKAGING: Bulk packaging standard for PTS453, PTS635 and PTS645 models. Tube packaging standard for all PTS125 models. Radial tape packaging available on PTS645S models; when ordering, add suffix 'TR' to part number. Switches supplied 1,000 pieces per box.

4.5 x 4.5mm Models

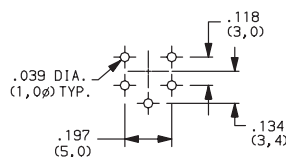
PART NUMBER	PART NUMBER (With ESD Pin)	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC (With ESD Pin)	SCHEMATIC
PTS453SL38	PTS453TL38	130 g	0.150 (3,8)	Black	 SPST	 SPST



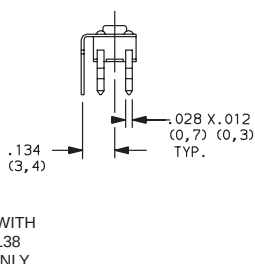
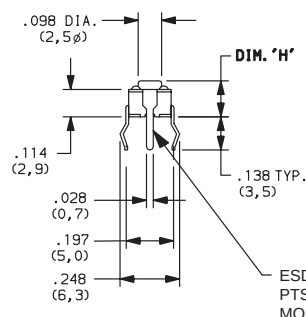
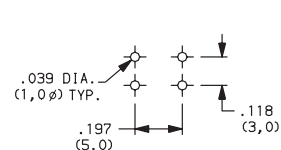
PTS453TL38
SPST



PC MOUNTING
(With ESD Pin)



PC MOUNTING



ESD PIN WITH
PTS453TL38
MODEL ONLY

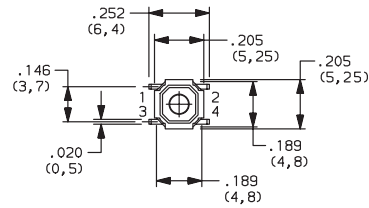
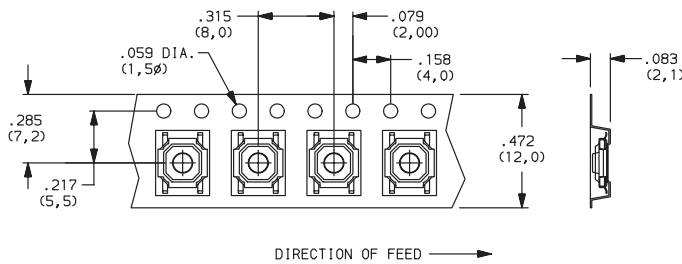
C&K PTS Series Subminiature Tactile Switches

5.25 x 5.25mm Surface Mount Model

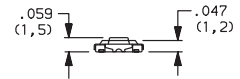
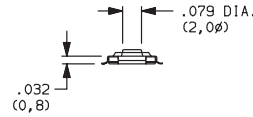
PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS525SM10SM	130 g	Black	 SPST

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

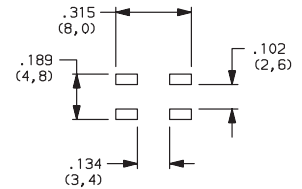
TAPE & REEL PACKAGING



PTS525SM10SM
SPST



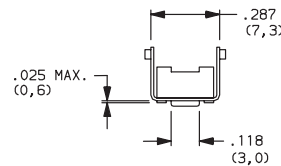
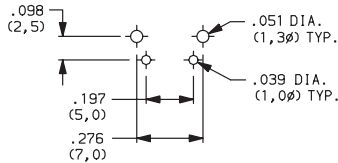
PC MOUNTING



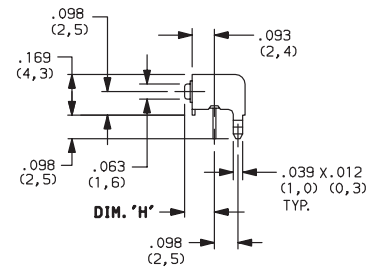
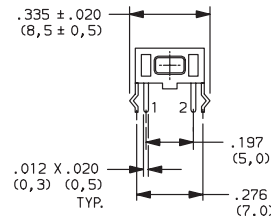
6 x 3.5mm Right Angle Models

PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS635VL31	130 g	0.124 (3,15)	Black	 SPST
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



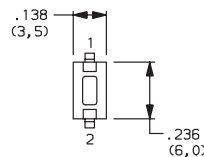
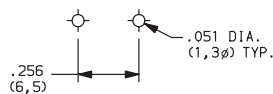
PTS635VL31
SPST



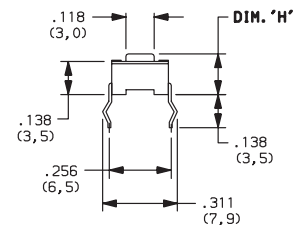
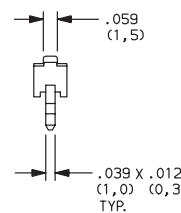
6 x 3.5mm Models

PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR	SCHEMATIC
PTS635SL43	130 g	0.169 (4,3)	Black	 SPST
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

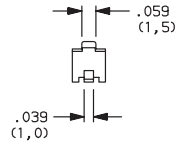
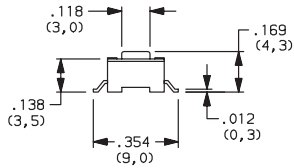
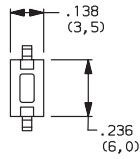


C&K PTS Series Subminiature Tactile Switches

6 x 3.6mm Surface Mount Models

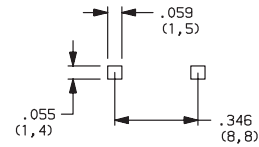


PTS635SL43SM
SPST



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

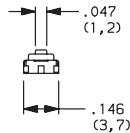
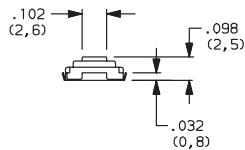
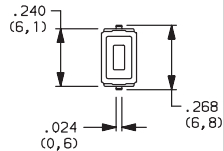
PC MOUNTING



6.1 x 3.7mm Surface Mount Models



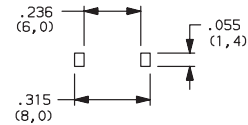
PTS635SL25SM
SPST



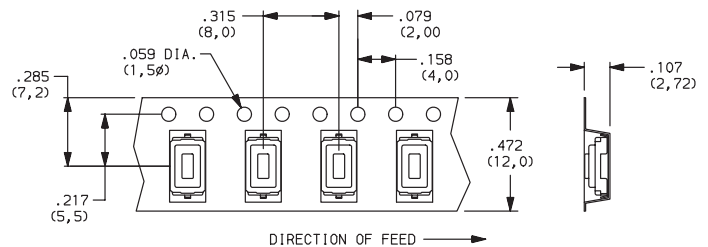
PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS635SL25SM	130 g	Black	 SPST
PTS635SK25SM	260 g	Red	

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

PC MOUNTING



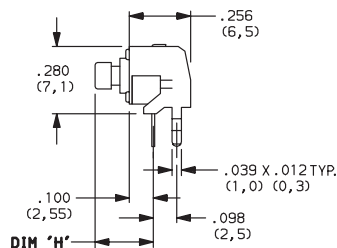
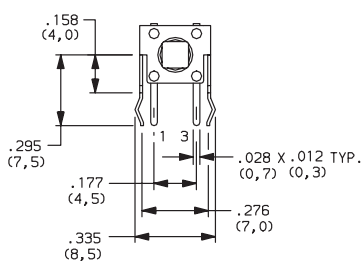
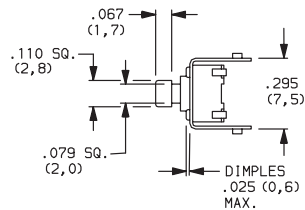
TAPE & REEL PACKAGING



6 x 6mm Right Angle Models



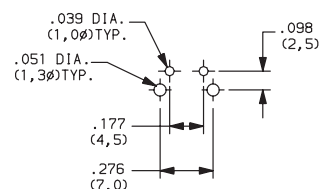
PTS645VJL61
SPST



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	

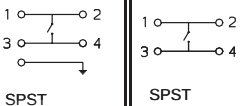
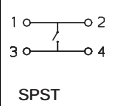
NOTE: 160 g version available; to specify part number, replace 'L' or 'H' with 'M'; actuator color is blue. 260 g version available; to specify part number, replace 'L' or 'H' with 'K'; actuator color is red.

PC MOUNTING



C&K PTS Series Subminiature Tactile Switches

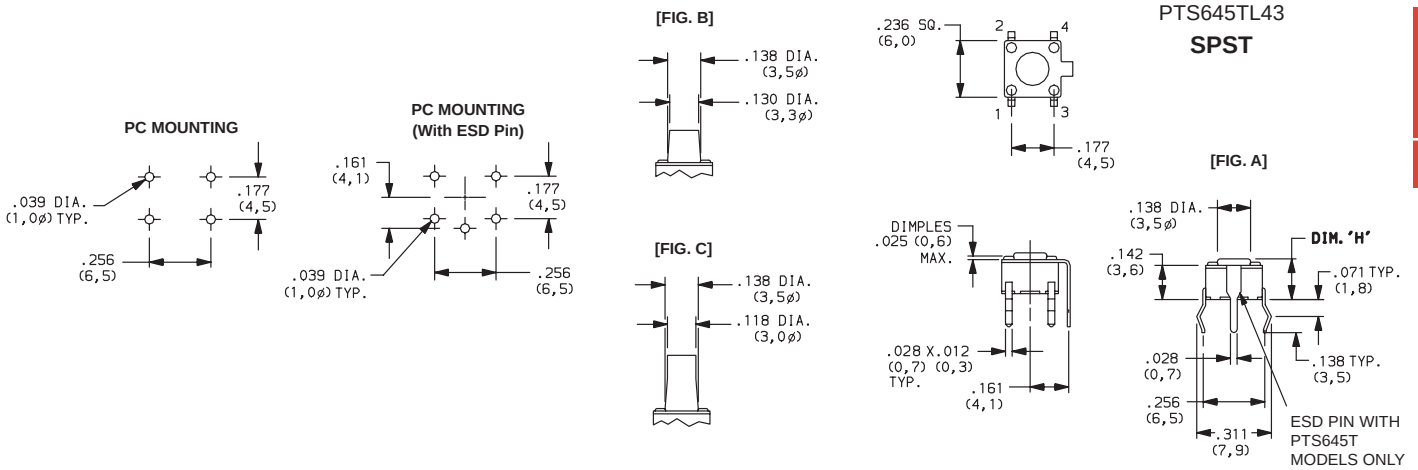
6 x 6 mm Models

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		

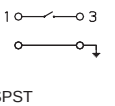
NOTE: 160 g version available; to specify part number, replace 'L' or 'H' with 'M'; actuator color is blue. 260 g version available; to specify part number, replace 'L' or 'H' with 'K'; actuator color is red.



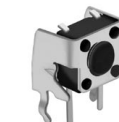
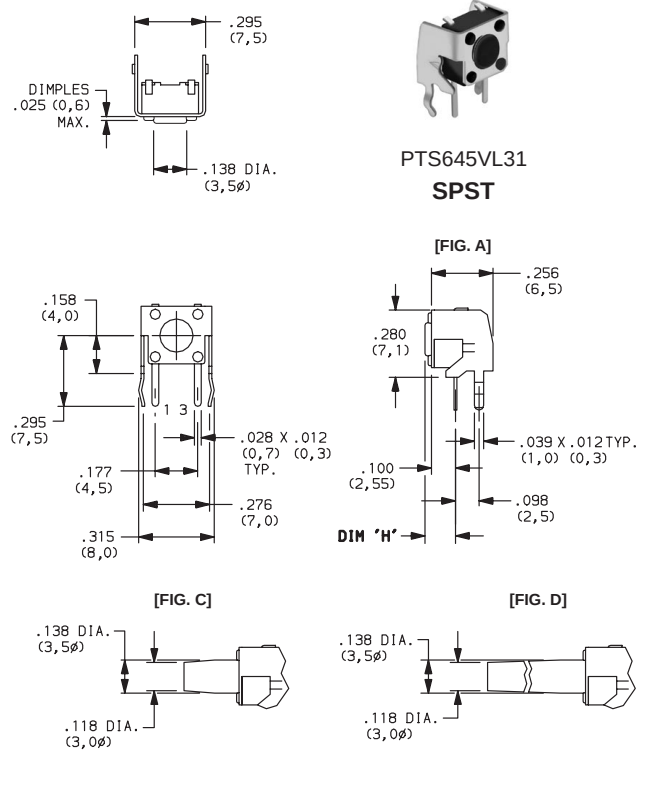
PTS645TL43
SPST



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	

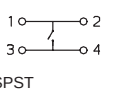
NOTE: 160 g version available; to specify part number, replace 'L' or 'H' with 'M'; actuator color is blue. 260 g version available; to specify part number, replace 'L' or 'H' with 'K'; actuator color is red.



PTS645VL31
SPST

C&K PTS Series Subminiature Tactile Switches

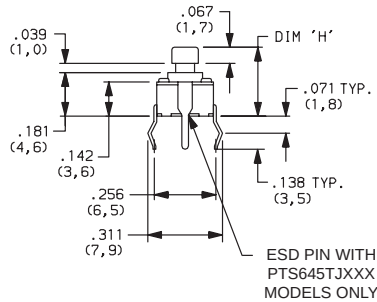
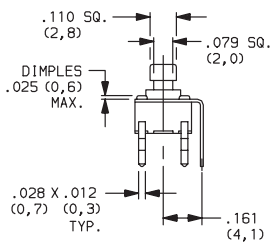
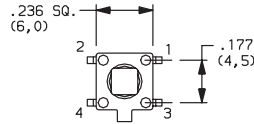
6 x 6mm Models

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.

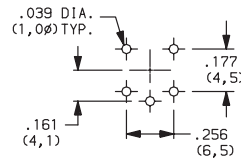


PTS645TJL73
SPST

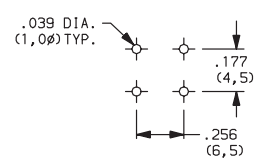


ESD PIN WITH
PTS645TJXXX
MODELS ONLY

PC MOUNTING
(With ESD Pin)



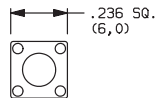
PC MOUNTING



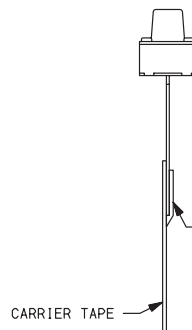
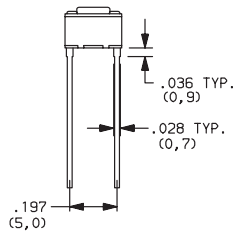
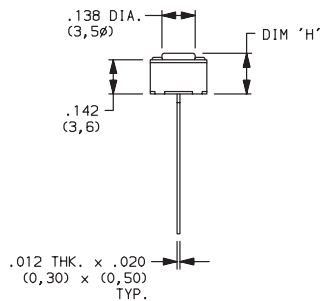
6 x 6mm Models



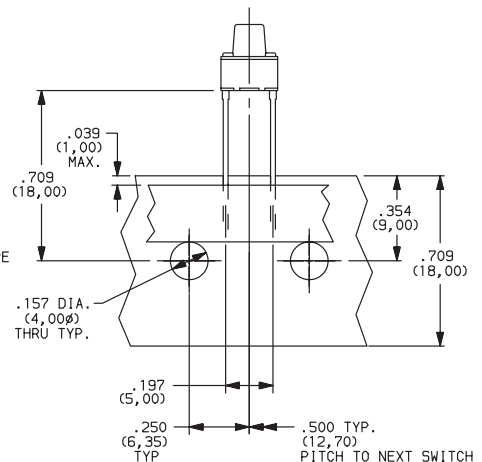
PTS645SL43TR
SPST



PART NUMBER	OPERATING FORCE (TYP.)	DIM. 'H'	ACTUATOR COLOR
PTS645SL43TR	130 g	0.169 (4,3)	Black
PTS645SL50TR	130 g	0.197 (5,0)	Black
PTS645SL70TR	130 g	0.275 (7,0)	Black
PTS645SL95TR	130 g	0.374 (9,5)	Black



TAPE & REEL PACKAGING



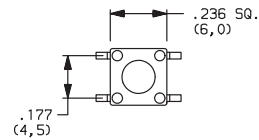
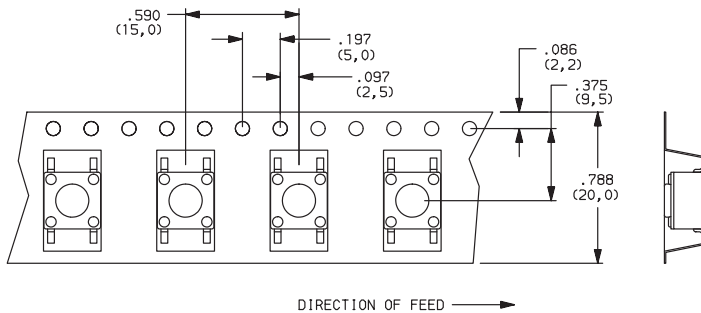
C&K PTS Series Subminiature Tactile Switches

6 x 6mm Surface Mount Models

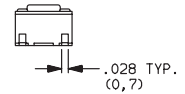
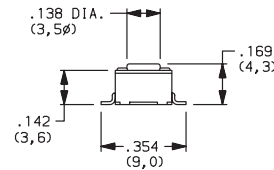
PART NUMBER	OPERATING FORCE (TYP.)	ACTUATOR COLOR	SCHEMATIC
PTS645SL43SM	130 g	Black	
PTS645SH43SM	200 g		

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

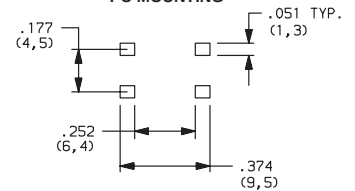
TAPE & REEL PACKAGING



PTS645SL43SM
SPST



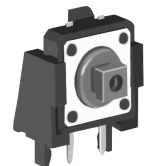
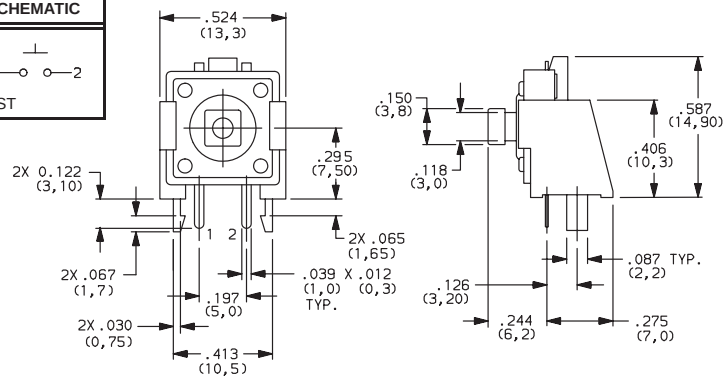
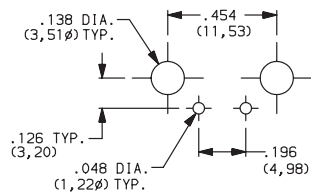
PC MOUNTING



12 x 12mm Right Angle Models

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

PC MOUNTING

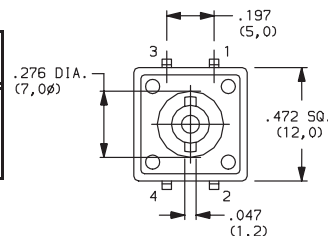
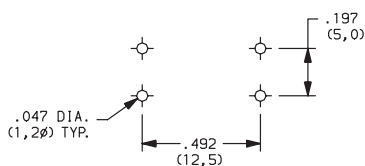


PTS125VJM73
SPST

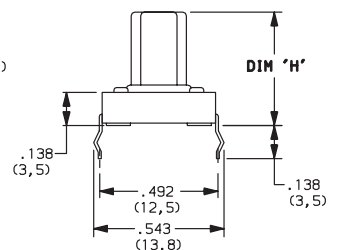
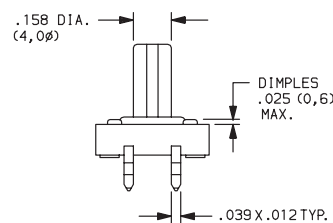
12 x 12mm Models

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	

PC MOUNTING



PTS125SM12
SPST

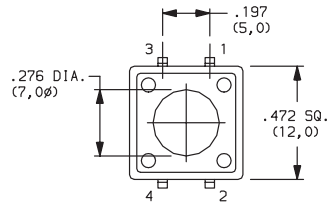


C&K PTS Series Subminiature Tactile Switches

12 x 12mm Models

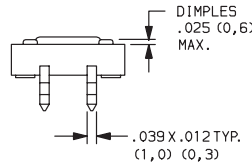
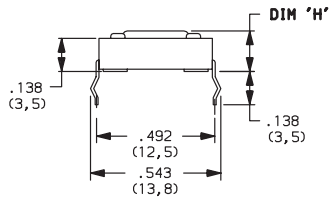
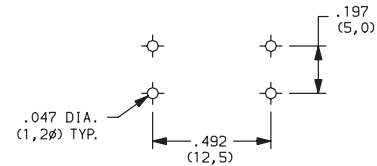


PTS125SM43
SPST



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	

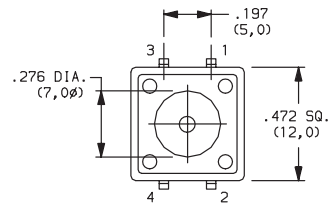
PC MOUNTING



12 x 12mm Models

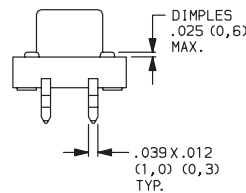
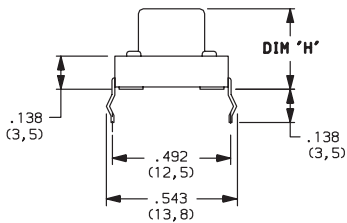
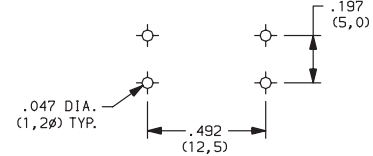


PTS125SM85
SPST



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	

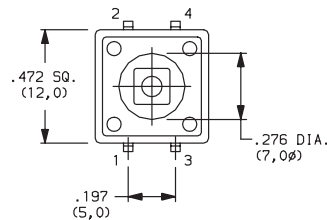
PC MOUNTING



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

