

Tactile Switches



Tactile Switches

- ## Typical Applications

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

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

LIFE EXPECTANCY: 100,000 operations.

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

OPERATING TEMPERATURE: -40°C to 85°C
STORAGE TEMPERATURE: -40°C to 85°C

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.

Bulk packaging

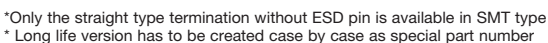
Tape & reel for the SMT type:

Reels of 1,000 pieces for 4.3 and 5.0 mm height
Reels of 1,000 pieces for 7.0 mm height
Reels of 700 pieces for 7.3 mm height
Reels of 500 pieces for 9.5 mm height
Reels of 400 pieces for 13.0 mm height

NOTE:

- Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.
- **The PTS series is not certified for using in Automotive application and no PPAP. However, in the case of some automotive accessories and specific applications for 2 and 3 wheeled vehicles the PTS is widely used and very suitable. Please contact your local C&K representative to discuss your application and the best switch solution.**

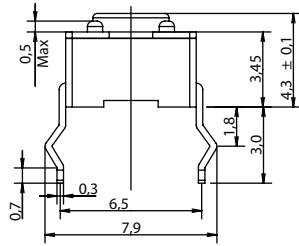
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



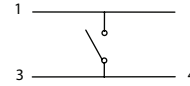
PTS645 Series 6 mm Tact Switches

TERMINATION

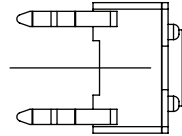
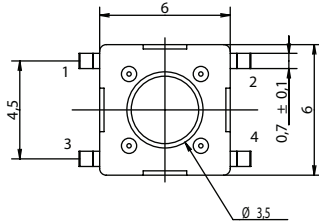
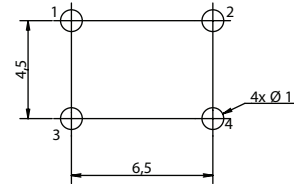
S STRAIGHT



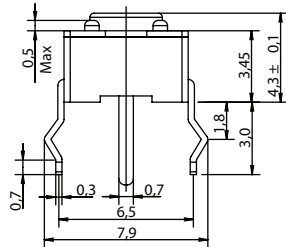
SCHEMATIC



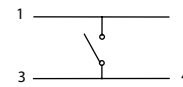
PCB LAYOUT



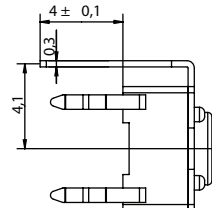
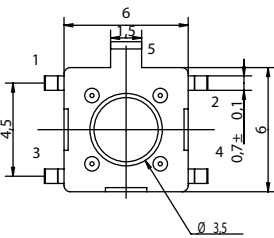
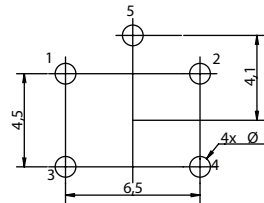
T STRAIGHT WITH ESD PIN



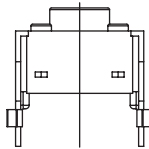
SCHEMATIC



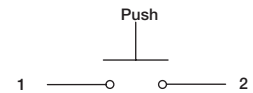
PCB LAYOUT



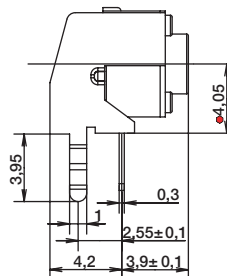
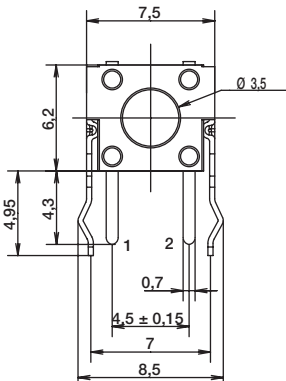
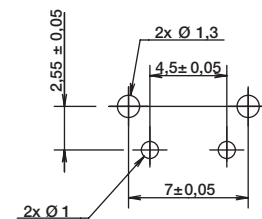
V VERTICAL THT



SCHEMATIC



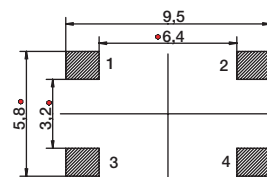
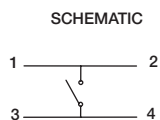
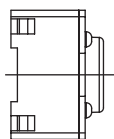
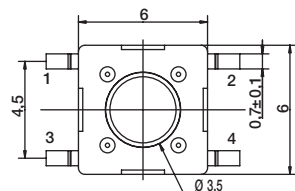
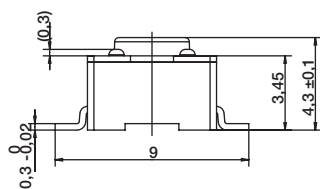
PCB LAYOUT



PTS645 Series 6 mm Tact Switches

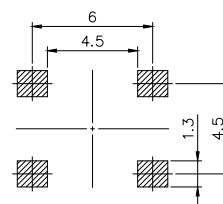
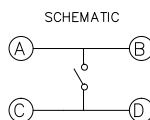
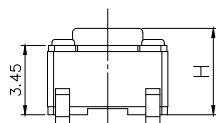
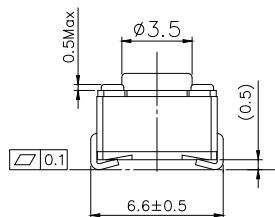
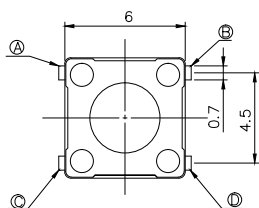
TERMINATION

SMT G Type



PCB LAYOUT

SMT J Type



PCB LAYOUT



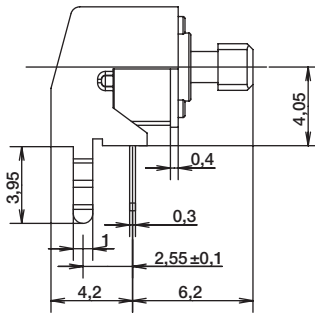
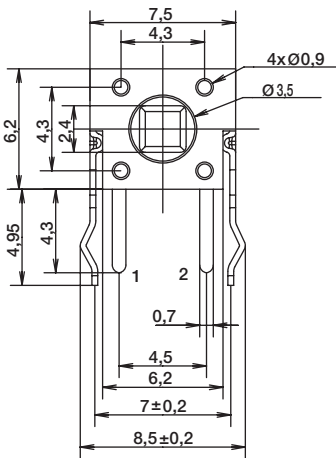
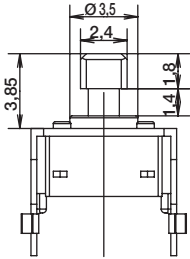
B

Tactile Switches

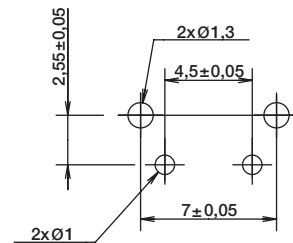
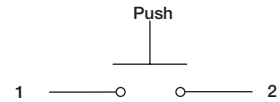
ACTUATOR SHAPE

J SQUARE ACTUATOR

VERTICAL THT - FOR 6.15MM LENGTH ONLY

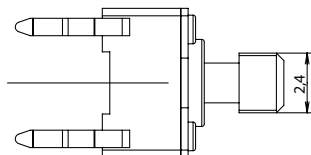
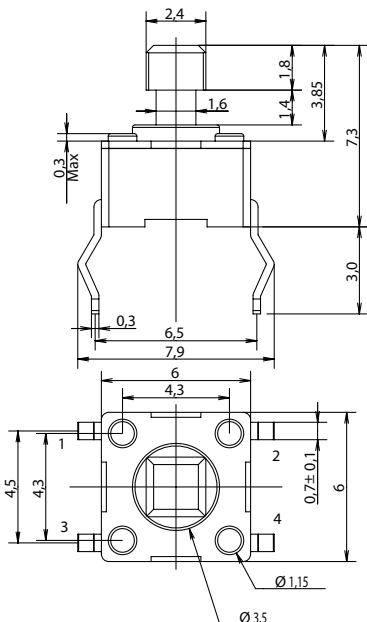


SCHEMATIC

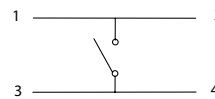


RECOMMENDED PCB LAYOUT

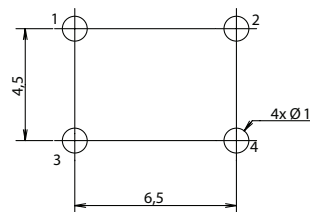
STRAIGHT THT - FOR 7.3MM HEIGHT ONLY



SCHEMATIC



RECOMMENDED PCB LAYOUT

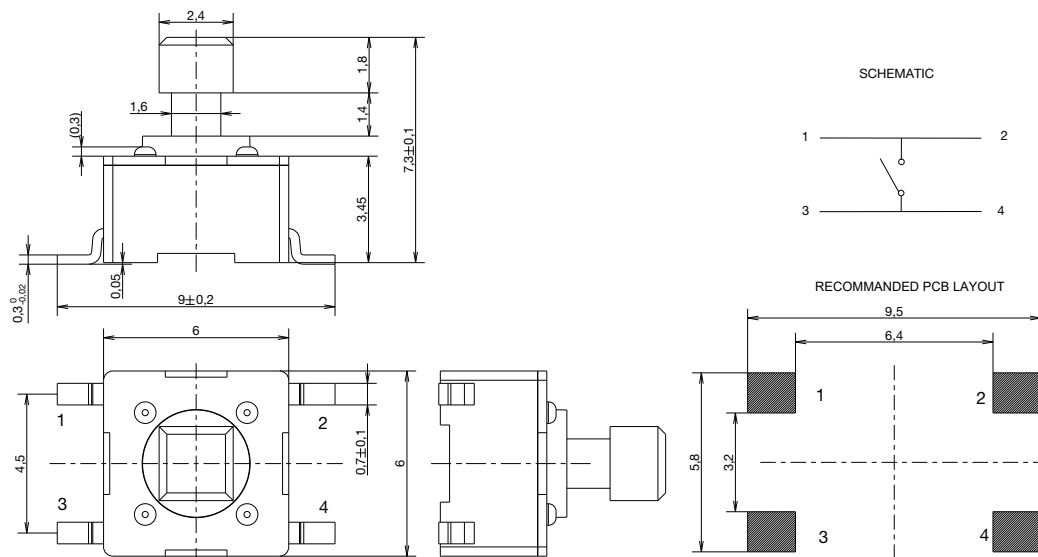


First Angle
Projection

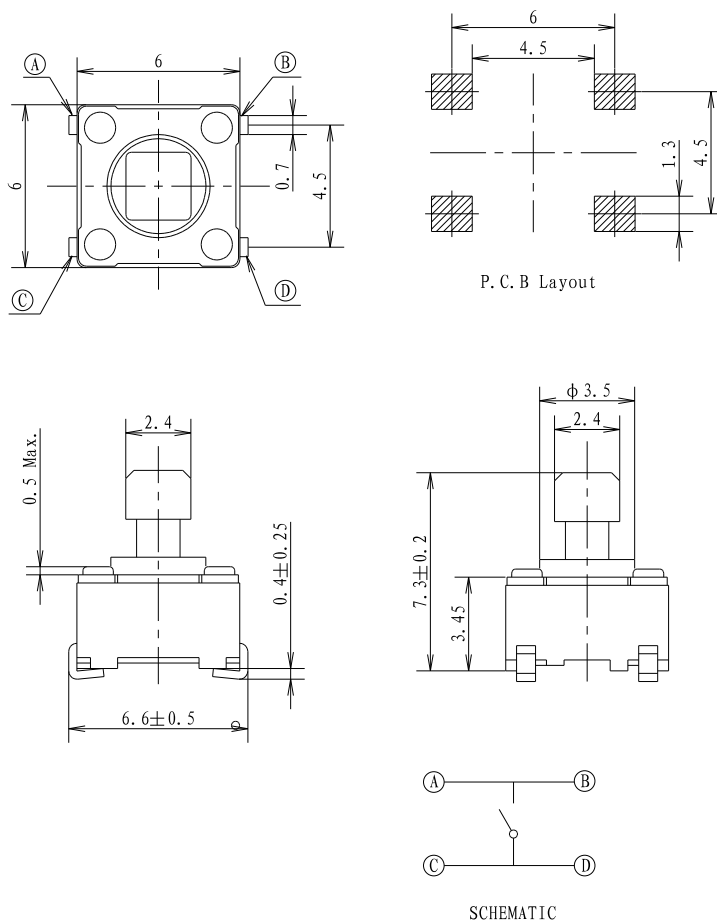
PTS645 Series 6 mm Tact Switches

ACTUATOR SHAPE

STRAIGHT SMT G TYPE - FOR 7.3MM HEIGHT ONLY

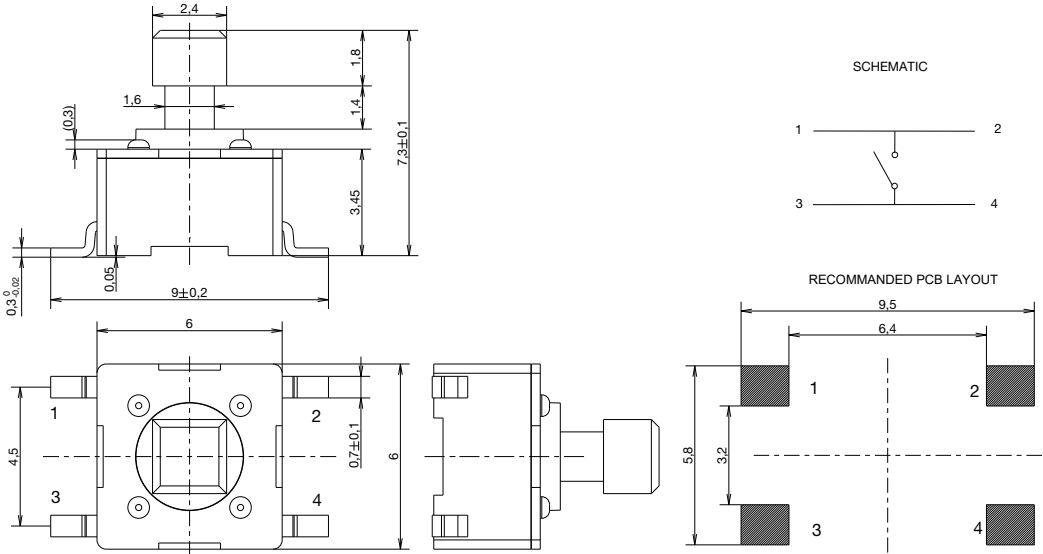


STRAIGHT SMT J TYPE - FOR 7.3MM HEIGHT ONLY



ACTUATOR SHAPE

STRAIGHT SMT - FOR 7.3MM HEIGHT ONLY



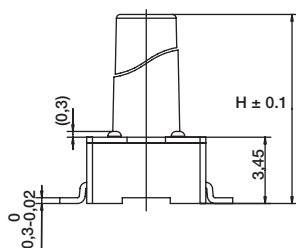
PTS645 Series 6 mm Tact Switches

ACTUATION FORCE

OPTION CODE	FORCE
L	130 grams Black
M	160 grams Blue
H	200 grams Gray
K	260 grams Red

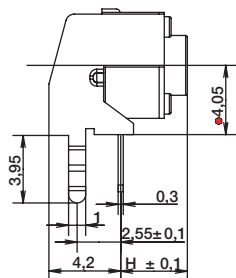
ACTUATOR HEIGHT

Switch height from PCB for S and T only



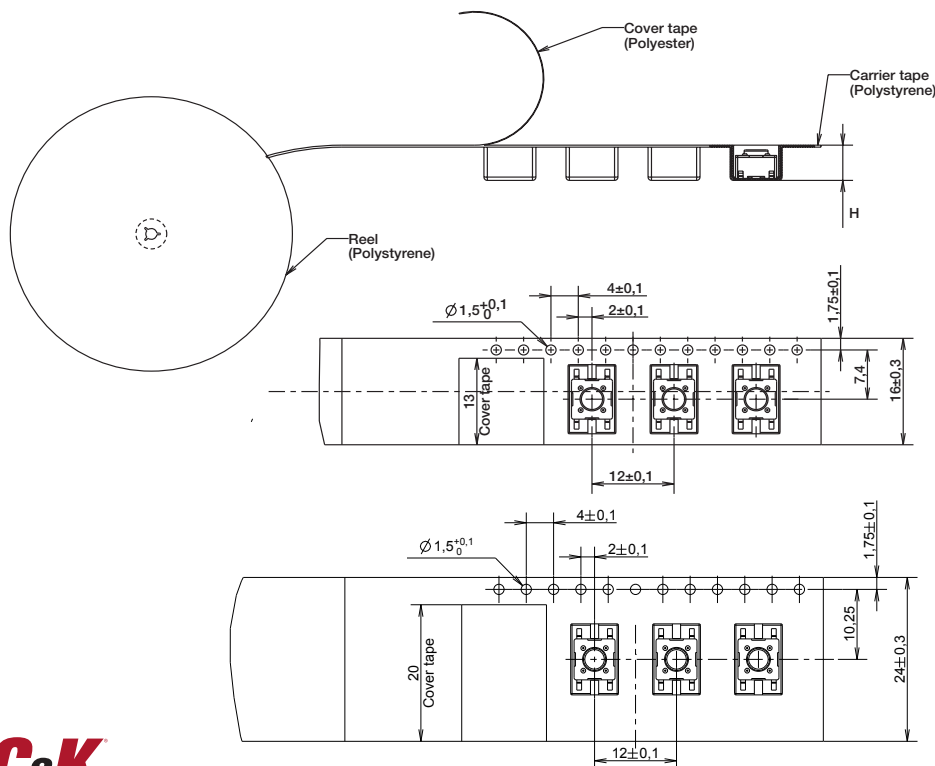
OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
43	4,3 (.169)	Thru-hole and SMT		
50	5,0 (.197)	Thru-hole and SMT		
70	7,0 (.275)	Thru-hole and SMT		
95	9,5 (.374)	Thru-hole and SMT		
13	13,0 (.512)	SMT		

Switch length from front leads for V only



OPTION CODE	DIMENSION H	TERMINATION	SCHEMATIC	
			Without EMC pin	With EMC pin
31	3,15 (.124)	Vertical		
39	3,85 (.151)	Vertical		
58	5,85 (.230)	Vertical		
83	8,35 (.329)	Vertical		

TAPE & REEL FOR SMT G TYPE VERSIONS



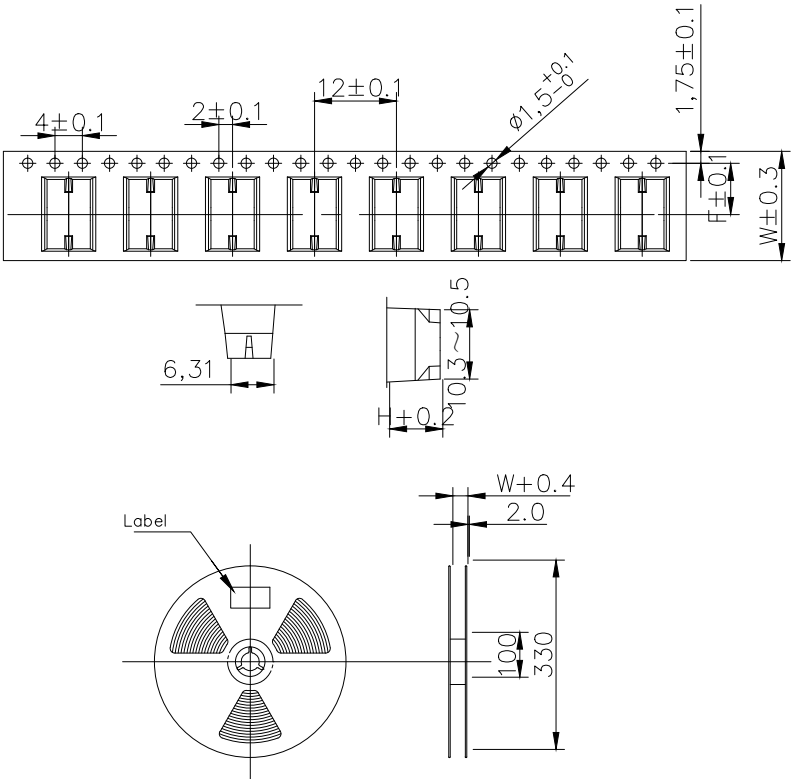
OPTION CODE	WIDTH TAPE	POCKET HEIGHT
43	16 ± 0.3	5.3
50	16 ± 0.3	5.3
70	16 ± 0.3	7.3
73	16 ± 0.3	7.6
95	24 ± 0.3	10.3
13	24 ± 0.3	13.3



Dimensions are shown: mm
Specifications and dimensions subject to change

PTS645 Series 6 mm Tact Switches

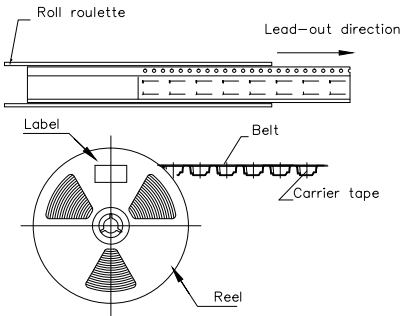
TAPE & REEL FOR SMT J TYPE VERSIONS



Tape specifications

Product height (h)mm	Carrier tape width (W)mm	Center distance of carrier tape (F)mm	pcs/reel
4.3	16	7.5	1000
5.0	16	7.5	1000
7.0	16	7.5	700
7.3	16	7.5	700
9.5	24	11.5	500
11	24	11.5	500
13	24	11.5	500

Note: The disc rotates counterclockwise. According to the packing shown in the figure, the braid must not be twisted to prevent product deformation;



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C&K Switches:

[PTS645SL95](#) [PTS645SL43](#) [PTS645SL70](#) [PTS645SL50](#) [PTS645SH43](#) [PTS645SH70](#) [PTS645SH95](#) [PTS645SH50](#)
[PTS645SL43SM](#) [PTS645TJL73](#) [PTS645SJL73](#) [PTS645TH43](#) [PTS645TH50](#) [PTS645TH95](#) [PTS645TH70](#)
[PTS645VL83](#) [PTS645VL31](#) [PTS645VL15](#) [PTS645VL58](#) [PTS645VL39](#) [PTS645SH43SM](#) [PTS645TL95](#) [PTS645TL70](#)
[PTS645TL43](#) [PTS645TL50](#) [PTS645VH39](#) [PTS645VH83](#) [PTS645VH15](#) [PTS645VH58](#) [PTS645VH31](#)
[PTS645SM43SMTR LFS](#) [PTS645SH70 LFS](#) [PTS645VL39 LFS](#) [PTS645SL50 LFS](#) [PTS645SJL73 LFS](#)
[PTS645SM43TR LFS](#) [PTS645VH58 LFS](#) [PTS645VL58 LFS](#) [PTS645VL83 LFS](#) [PTS645TL43 LFS](#) [PTS645VH15 LFS](#)
[PTS645VH83 LFS](#) [PTS645SK50TR LFS](#) [PTS645SL70TR LFS](#) [PTS645SM50TR LFS](#) [PTS645SH95 LFS](#)
[PTS645SK43 LFS](#) [PTS645TL70 LFS](#) [PTS645SL70 LFS](#) [PTS645VH39 LFS](#) [PTS645TL50 LFS](#) [PTS645SH50 LFS](#)
[PTS645VL15 LFS](#) [PTS645SK50 LFS](#) [PTS645TH50 LFS](#) [PTS645VH31 LFS](#) [PTS645SK43TR LFS](#)
[PTS645SL50SMTR LFS](#) [PTS645SJH73 LFS](#) [PTS645TH43 LFS](#) [PTS645SL43 LFS](#) [PTS645SH43SMTR LFS](#)
[PTS645SK95 LFS](#) [PTS645SL95 LFS](#) [PTS645VJL61 LFS](#) [PTS645VK39 LFS](#) [PTS645SL17LFS](#) [PTS645SM43LFS](#)
[PTS645SM50LFS](#) [PTS645SM70LFS](#) [PTS645SM95LFS](#) [PTS645SH43LFS](#) [PTS645SK70LFS](#) [PTS645VM15LFS](#)
[PTS645VM31LFS](#) [PTS645VM39LFS](#) [PTS645VM58LFS](#) [PTS645VM83LFS](#) [PTS645VK15LFS](#) [PTS645VK31LFS](#)
[PTS645VK58LFS](#) [PTS645VK83LFS](#) [PTS645SM50SMTRLFS](#) [PTS645SH50SMTRLFS](#) [PTS645SK43SMTRLFS](#)
[PTS645SK50SMTRLFS](#) [PTS645VJM61LFS](#) [PTS645VJH61LFS](#) [PTS645VJK61LFS](#) [PTS645SK50-2 LFS](#)
[PTS645SM43-2 LFS](#) [PTS645VK31-2 LFS](#) [PTS645VM58-2 LFS](#) [PTS645SL95-2 LFS](#) [PTS645VH83-2 LFS](#)
[PTS645SL50SMTR 92 LFS](#) [PTS645VH31-2 LFS](#) [PTS645VK83-2 LFS](#) [PTS645SH43-2 LFS](#) [PTS645SH43SMTR 92 LFS](#)