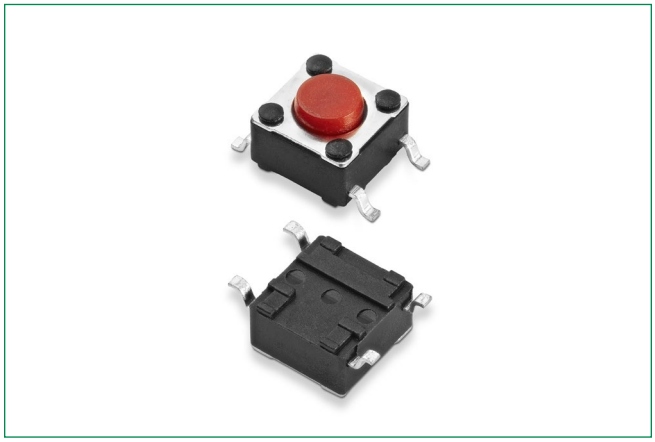
PTS645 Series

6.0 x 6.0 mm Top Push Tactile Switches



Description

The PTS645 switch series are 6mm tactile switches, designed to provide those designing for consumer product, instrumentation and computing equipment applications the long-lasting, responsive switch they need. PTS645 switches are compact (6 x 6mm) and are available in a variety of actuator lengths, with a choice of actuation force, allowing you to customize the switch to your product's needs.

Features & Benefits

- Compact size 6 x 6 mm
- Variety of actuator lengths
- Long-life version available, up to 1M cycles
- Choice of actuation force
- RoHS compliant and compatible

Applications

- Consumer products
- Instrumentation
- Computer products
- Industrial

Specifications

Function	Momentary action
Contact Arrangement	SPST, N.O.
Terminals	Thru-hole & SMT

Electrical Characteristics

Contact Rating	Max. 50mA@12VDC Min. 10µA@1VDC
Dielectric Strength	250 V AC min.
Contact Resistance	100 mΩ max. initial
Insulation Resistance	10^{11} Ω min.

Environmental Characteristics

Operating Temperature	-40˚C to 85˚C
Storage Temperature	

Process

Soldering	Test 2 times Max. Reflow soldering conditions (Reference standard: J-STD-020) Preheat---150°C-200°C, 60-120 (sec) Peak temperature---260°C Max. 10 (sec) Soldering area temperature---217°C, 60-150 (sec)

Notes:
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.

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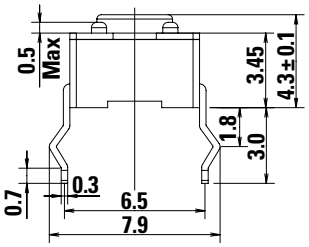
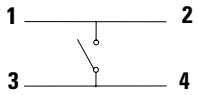
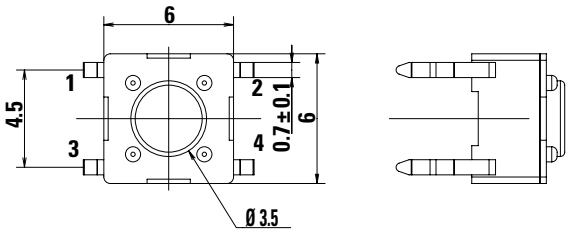
PTS645 Series
6.0 x 6.0 mm Top Push Tactile Switches

Dimensions (mm)
THT

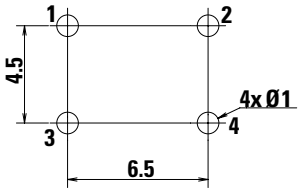


SCHEMATIC

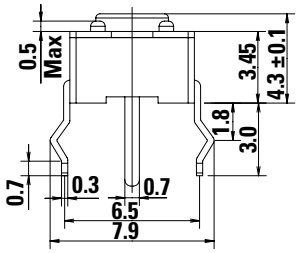




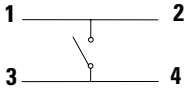
PCB LAYOUT

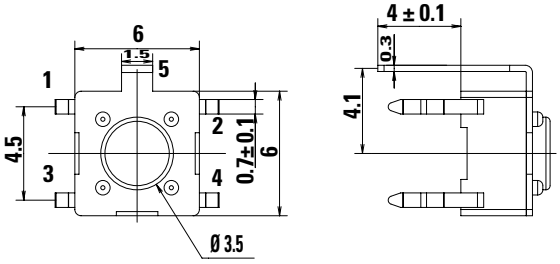


THT with ESD Pin

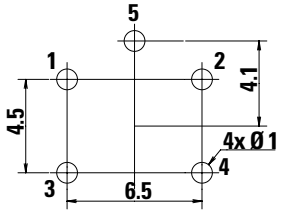


SCHEMATIC





PCB LAYOUT



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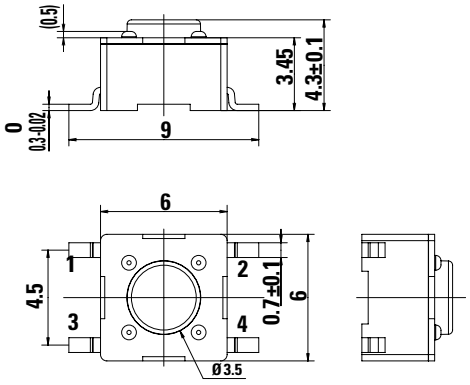
PTS645 Series
6.0 x 6.0 mm Top Push Tactile Switches

SMT G Type



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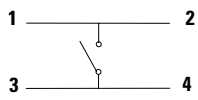
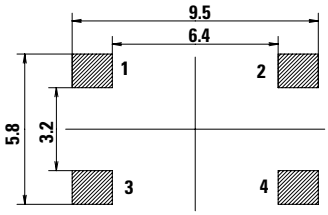
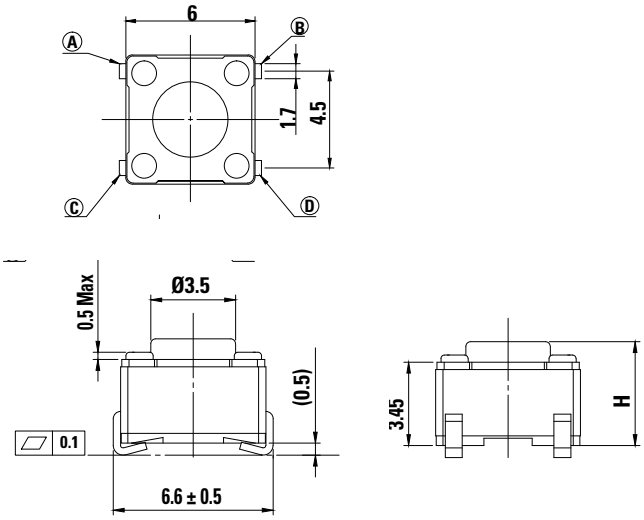


PCB LAYOUT



SMT J Type



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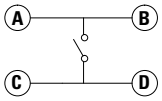
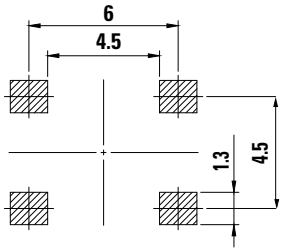


PCB LAYOUT



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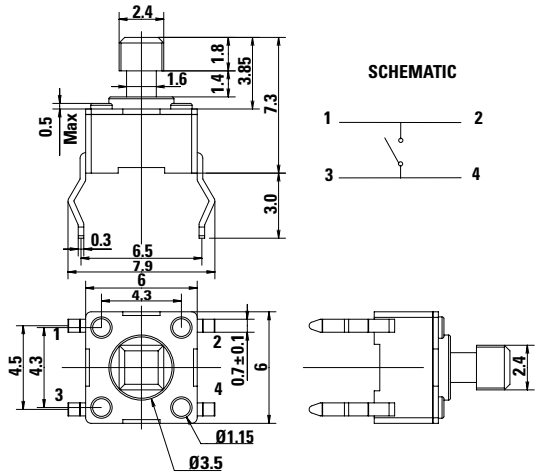
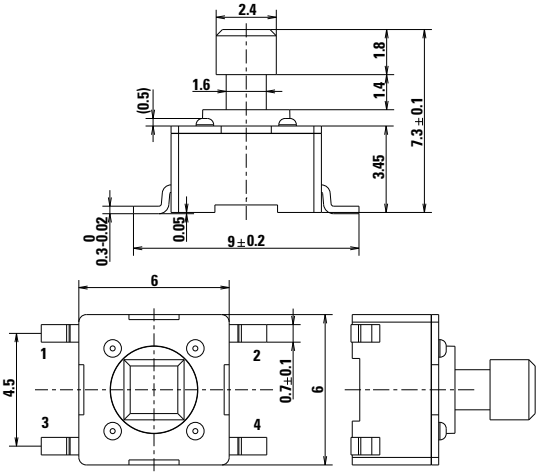
PTS645 Series
6.0 x 6.0 mm Top Push Tactile Switches

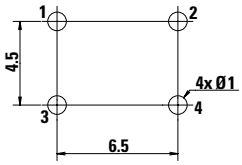
THT - for 7.3mm height only



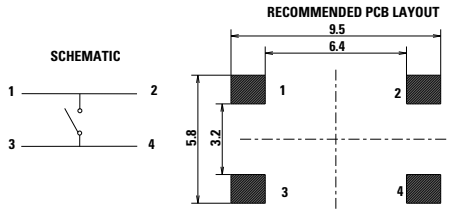
SMT G Type - for 7.3mm height only



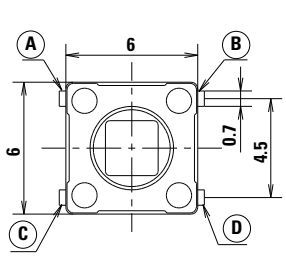
RECOMMENDED PCB LAYOUT

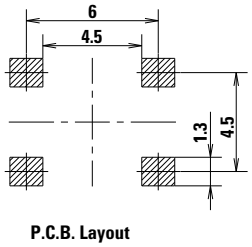


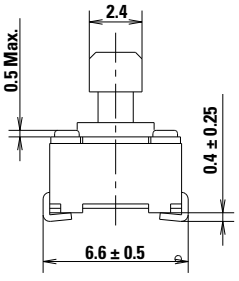
RECOMMENDED PCB LAYOUT

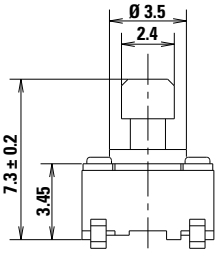


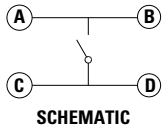
SMT J Type - for 7.3mm height only



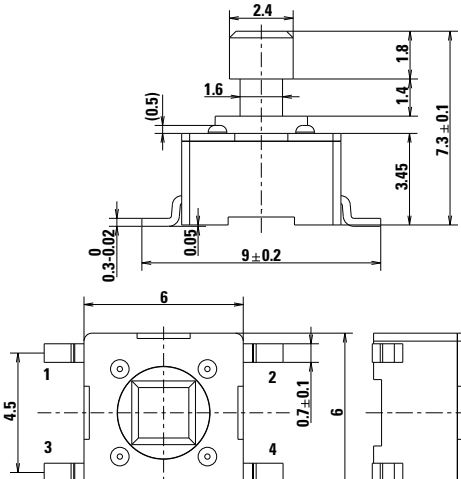




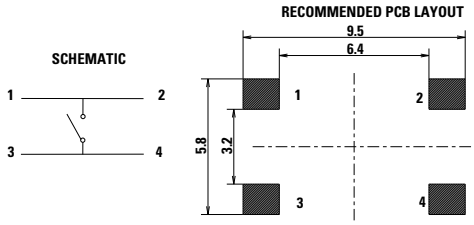




SMT G Type - for 7.3mm height only



RECOMMENDED PCB LAYOUT



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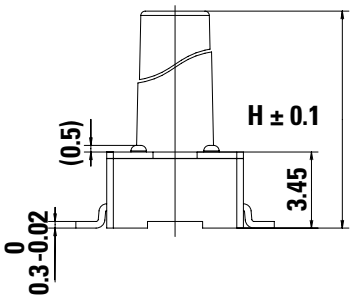
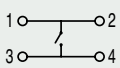
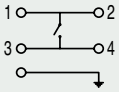
PTS645 Series
6.0 x 6.0 mm Top Push Tactile Switches

Actuator Height



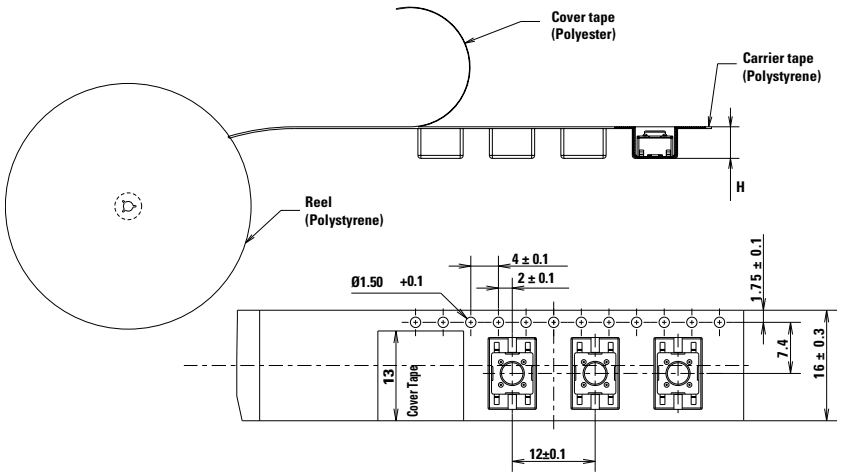
Switch height from PCB

Option Code	Dimension H (mm)	Termination	Schematic	
			Without EMC pin	With EMC pin
43	4.3 (0.169)	Thru-hole and SMT		
50	5.0 (0.197)			
70	7.0 (0.275)			
95	9.5 (0.374)			
13	13.0 (0.512)	SMT		

Tape Dimension

Option Code	Width Tape (mm)	Pocket Height
43	16 ± 0.3	5.3
50		
70		7.3
73		7.6
95	24 ± 0.3	10.3
13		13.3

Tape & Reel for SMT G type Versions



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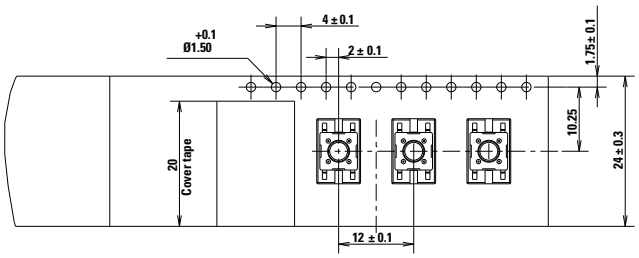
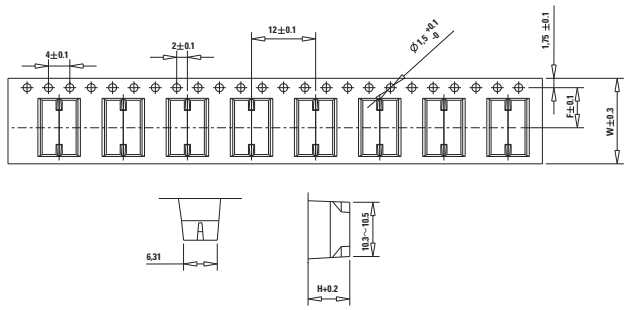
PTS645 Series
6.0 x 6.0 mm Top Push Tactile Switches



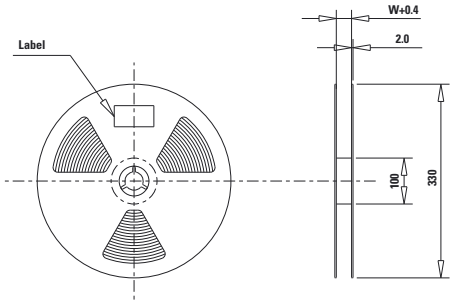
Note:
Bulk Packaging
Tape & reel for the SMT type:
Reels of 1,000 pieces for 4.3 and 5.0 mm height.
Reels of 700 pieces for 7.0 mm height.
Reels of 700 pieces for 7.3 mm height.
Reels of 500 pieces for 9.5 mm height.
Reels of 400 pieces for 13.0 mm height.

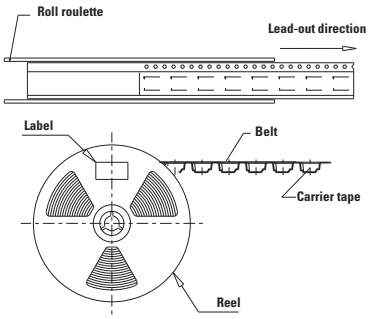
Tape & Reel for SMT J type Versions



Product Height	Carrier Width Tape (W) mm	Center Distance of Carrier Tape (F) mm	pcs/reel
4.3	16	7.5	1000
5.0			
7.0			700
7.3			
9.5	24	11.5	500
11			
13			

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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PTS645 Series
6.0 x 6.0 mm Top Push Tactile Switches

Ordering Number

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.

PTS645 - x - x - x - xx - xxxxxxx - xx - LFS

Termination
S: Straight
T: Straight with ESD pin

Actuator Shape
None: Round actuator, All versions
J: Square actuator, 2.4 mm side (available for Top Push 7.3 mm)

Actuation Force
N: 1.0N
L: 1.3N
M: 1.6N
H: 2.0N
K: 2.6N
P: 3.2N*
R: 3.6N*

*__Actuation Force:__ P and R only available for SMT version

Switch height from PCB
(H dimension see actuator height drawings)
43: 4.3 (.169), thru-hole and SMT
50: 5.0 (.197), thru-hole and SMT
70: 7.0 (.275), thru-hole and SMT
73: 7.3 (.287), thru-hole and SMT
95: 9.5 (.374), thru-hole and SMT
13: 13.0 (.512) SMT only
11: 11.0 (.433) SMT only

Insertion Type
2: Thru hole
SMTR92[1]: Surface mount G-type, tape & reel
JSMTR92[1]: Surface mount J-type, tape & reel

1M: long-life version with 1M life cycles
blank: regular

RoHS compliant and compatible, Silver plated

Notes:
1. Only the straight type termination without ESD pin is available in SMT type
Long life version has to be created case by case as special part number

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PTS645 Series
6.0 x 6.0 mm Top Push Tactile Switches

Mechanical Characteristics
Surface Mount

Supply Status	Item Number	Description	Contact & Terminals Plating	Termination	Actuation Force (N)	Operating Life (operations)	Electrical Travel (mm)	Height from PCB	Orientation	Actuator Shape	Actuator Color
✓	Y97HT23B4PAFP	PTS645SH13SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	11.0mm	Top Push	Round	Gray
✓	Y97HT23B4EAFP	PTS645SH43SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	11.0mm	Top Push	Round	Gray
✓	Y97HT23B4FAFP	PTS645SH50SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	13.0mm	Top Push	Round	Gray
✓	Y97HT23B4GAFP	PTS645SH70SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	13.0mm	Top Push	Round	Gray
✓	Y97JT23B5HAFP	PTS645SJK73SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	13.0mm	Top Push	Square	Red
✓	Y97JT23B2HAFP	PTS645SJM73SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	13.0mm	Top Push	Square	Blue
✓	Y97JT23B0HAFP	PTS645SJN73SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	13.0mm	Top Push	Square	Black
✓	Y97HT23B5PAFP	PTS645SK13SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	13.0mm	Top Push	Round	Red
✓	Y97HT23B5EAFP	PTS645SK43SMTR92 LFS	Silver	Gull Wing	1.0 +/- 0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Red
✓	Y97HT23B5FAFP	PTS645SK50SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Red
✓	Y97HT23B5GAFP	PTS645SK70SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Red
✓	Y97HT23B5KAFP	PTS645SK95SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Red
✓	Y97HT23B1PAFP	PTS645SL13SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.25 +0.1/-0.15	4.3mm	Top Push	Round	Black
✓	Y97HT23B1EAFP	PTS645SL43SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.25 +0.1/-0.15	4.3mm	Top Push	Round	Black
✓	Y97HT23B1FAFP	PTS645SL50SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.25 +0.1/-0.15	4.3mm	Top Push	Round	Black
✓	Y97HT23B1GAFP	PTS645SL70SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.25 +0.1/-0.15	4.3mm	Top Push	Round	Black
✓	Y97HT23B1KAFP	PTS645SL95SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.25 +0.1/-0.15	4.3mm	Top Push	Round	Black
✓	G01157771	PTS645SM11SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Blue
✓	Y97HT23B2PAFP	PTS645SM13SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Blue
✓	Y97HT23B2EAFP	PTS645SM43SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Blue
✓	Y97HT23B2FAFP	PTS645SM50SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Blue
✓	Y97HT23B2GAFP	PTS645SM70SMTR92 LFS	Silver	Gull Wing	1.3 +/-0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Blue
✓	Y97HT23B2KAFP	PTS645SM95SMTR92 LFS	Silver	Gull Wing	1.6 +/- 0.3	100 000	0.30 +0.1/-0.15	4.3mm	Top Push	Round	Blue
✓	G01407944	PTS645SN13SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.25 +/- 0.10	4.3mm	Top Push	Round	Black
✓	G01403810	PTS645SN43SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.25 +/- 0.10	4.3mm	Top Push	Round	Black
✓	G01468133	PTS645SN50SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.25 +/- 0.10	4.3mm	Top Push	Round	Black
✓	G01485957	PTS645SN95SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.25 +/- 0.10	4.3mm	Top Push	Round	Black
✓	G01510002	PTS645SP43SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.30 +/-0.10	4.3mm	Top Push	Round	Red
✓	G01327719	PTS645SP50SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.30 +/-0.10	5.0mm	Top Push	Round	Red
✓	Y97HT23B6KAFP	PTS645SP95SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.30 +/-0.10	5.0mm	Top Push	Round	Red
✓	Y97HT23B7YAFP	PTS645SR11SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.30 +/-0.10	5.0mm	Top Push	Round	Brown
✓	Y97HT23B7PAFP	PTS645SR13SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.30 +/-0.10	5.0mm	Top Push	Round	Brown
✓	Y97HT23B7EAFP	PTS645SR43SMTR92 LFS	Silver	Gull Wing	1.6 +/-0.3	100 000	0.30 +/-0.10	5.0mm	Top Push	Round	Brown
✓	GSPTS0066	PTS645SJM73JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +0.1/-0.15	5.0mm	Top Push	Square	Blue
✓	GSPTS007404	PTS645SK43JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +0.1/-0.15	5.0mm	Top Push	Round	Red
✓	GSPTS007408	PTS645SK50JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +0.1/-0.15	5.0mm	Top Push	Round	Red
✓	GSPTS007416	PTS645SK73JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +0.1/-0.15	5.0mm	Top Push	Round	Red
✓	GSPTS007402	PTS645SM43JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +0.1/-0.15	5.0mm	Top Push	Round	Blue
✓	GSPTS007414	PTS645SM73JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +0.1/-0.15	5.0mm	Top Push	Round	Blue
✓	G01270955	PTS645SN95JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.25 +/- 0.10	5.0mm	Top Push	Round	Black
✓	G01267457	PTS645SP70JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +/-0.10	5.0mm	Top Push	Round	Red
✓	G01267477	PTS645SP95JSMTR92 LFS	Silver	J-leads	1.6 +/-0.3	100 000	0.30 +/-0.10	5.0mm	Top Push	Round	Red
✓	G01394819	PTS645SK43SMTR921M LFS	Silver	Gull Wing	2.0 +/-0.5	1 000 000	0.25 +/- 0.15	7.0mm	Top Push	Round	Blue
✓	G01437032	PTS645SM43SMTR921M LFS	Silver	Gull Wing	2.0 +/-0.5	1 000 000	0.3 +0.1/-0.15	7.0mm	Top Push	Round	Blue

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PTS645 Series

6.0 x 6.0 mm Top Push Tactile Switches

Supply Status	Item Number	Description	Contact & Terminals Plating	Termination	Actuation Force (N)	Operating Life (operations)	Electrical Travel (mm)	Height from PCB	Orientation	Actuator Shape	Actuator Color
✓	Y97HT21A4EAFP	PTS645SH43-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Round	Gray
✓	Y97HT21A4FAFP	PTS645SH50-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Round	Gray
✓	Y97HT21A4GAFP	PTS645SH70-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Round	Gray
✓	Y97HT21A4KAFP	PTS645SH95-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Round	Gray
✓	Y97JT21A4HAFP	PTS645SJH73-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Square	Gray
✓	Y97JT21A5HAFP	PTS645SJK73-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Square	Red
✓	Y97JT21A2HAFP	PTS645SJM73-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Square	Blue
✓	Y97HT21A5EAFP	PTS645SK43-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Round	Red
✓	Y97HT21A5FAFP	PTS645SK50-2 LFS	Silver	Thru hole	2.0 +/-0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Round	Red
✓	Y97HT21A5GAFP	PTS645SK70-2 LFS	Silver	Thru hole	2.6 +/- 0.5	100 000	0.30 +0.1/-0.15	7.0mm	Top Push	Round	Red
✓	Y97HT21A5KAFP	PTS645SK95-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	7.3mm	Top Push	Round	Red
✓	Y97HT21A1EAFP	PTS645SL43-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.25 +0.1/-0.15	7.3mm	Top Push	Round	Black
✓	Y97HT21A1FAFP	PTS645SL50-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.25 +0.1/-0.15	7.3mm	Top Push	Round	Black
✓	Y97HT21A1GAFP	PTS645SL70-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.25 +0.1/-0.15	7.3mm	Top Push	Round	Black
✓	Y97HT21A1KAFP	PTS645SL95-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.25 +0.1/-0.15	7.3mm	Top Push	Round	Black
✓	Y97HT21A2EAFP	PTS645SM43-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	7.3mm	Top Push	Round	Blue
✓	Y97HT21A2FAFP	PTS645SM50-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	7.3mm	Top Push	Round	Blue
✓	Y97HT21A2GAFP	PTS645SM70-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	7.3mm	Top Push	Round	Blue
✓	Y97HT21A2KAFP	PTS645SM95-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	7.3mm	Top Push	Round	Blue
✓	G01331203	PTS645SN43-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.25 +/- 0.10	7.3mm	Top Push	Round	Black
✓	10913246	PTS645SN50-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.25 +/- 0.10	9.5mm	Top Push	Round	Black
✓	G01227931	PTS645SN73-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.25 +/- 0.10	9.5mm	Top Push	Round	Black
✓	Y97HT22A4EAFP	PTS645TH43-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Gray
✓	Y97HT22A4KAFP	PTS645TH95-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Gray
✓	Y97HT22A5EAFP	PTS645TK43-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Red
✓	Y97HT22A5GAFP	PTS645TK70-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Red
✓	Y97HT22A5KAFP	PTS645TK95-2 LFS	Silver	Thru hole	2.6 +/-0.5	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Red
✓	Y97HT22A1EAFP	PTS645TL43-2 LFS	Silver	Thru hole	3.2 +/- 0.7	100 000	0.25 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Black
✓	Y97HT22A1FAFP	PTS645TL50-2 LFS	Silver	Thru hole	3.2 +/- 0.7	100 000	0.25 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Black
✓	Y97HT22A1GAFP	PTS645TL70-2 LFS	Silver	Thru hole	3.2 +/- 0.7	100 000	0.25 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Black
✓	Y97HT22A1KAFP	PTS645TL95-2 LFS	Silver	Thru hole	3.2 +/- 0.7	100 000	0.25 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Black
✓	Y97HT22A2EAFP	PTS645TM43-2 LFS	Silver	Thru hole	3.2 +/- 0.7	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Blue
✓	Y97HT22A2FAFP	PTS645TM50-2 LFS	Silver	Thru hole	3.6 +/- 0.7	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Blue
✓	Y97HT22A2GAFP	PTS645TM70-2 LFS	Silver	Thru hole	3.6 +/- 0.7	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Blue
✓	Y97HT22A2KAFP	PTS645TM95-2 LFS	Silver	Thru hole	3.6 +/- 0.7	100 000	0.30 +0.1/-0.15	9.5mm	Top Push with ESD Pin	Round	Blue

Note: Supply status: ✓ : Available for ordering.

Liability Limitation

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipement. Please contact customer service for the contractual specification package.

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