



Feature -

- Small size
- LED illuminated
- Two color available
- Long life

Applications -

- Consumer Products
- Instrumentation
- Computer Products
- Communication Equipments

► SPECIFICATIONS

SWITCH SPECIFICATIONS	
POLE - POSITION	1P1T , with LED
CONTACT RATING	12 V DC , 50 mA
CONTACT RESISTANCE	100 mΩ MAX. 1.5 V DC ; 100 mA , by Method of Voltage DROP
INSULATION RESISTANCE	100 MΩ MIN. 500 V DC
DIELECTRIC STRENGTH	Breakdown is not Allowable ; 500 V AC for 1 Minute
OPERATING FORCE	180 ± 50 gf
OPERATING LIFE	500,000 cycles
OPERATING TEMPERATURE RANGE	-20°C ~ 70°C
TOTAL TRAVEL	0.2 ± 0.1 mm

LED SPECIFICATIONS							
 ATTENTION LEDs are Electrostatic Sensitive devices		Unit	Value / LED Color				
			Blue	Green	Red	White	Yellow
FORWARD CURRENT	If	mA	10	20	20	2	20
REVERSE VOLTAGE	Vr	V	5.0	5.0	5.0	5.0	5.0
REVERSE CURRENT	Ir	μA	10	10	10	10	10
FORWARD VOLTAGE	Vf	V	@ 10mA 3.0-4.0	2.1-2.5	2.0-2.5	@ 2mA 2.8-4.0	2.0-2.5
LUMINOUS INTENSITY	Iv	mcd	@ 10mA 200	800	1800	@ 2mA 12	1800

■ Physical and electrical information of LED will be provided upon customer's request on switches .

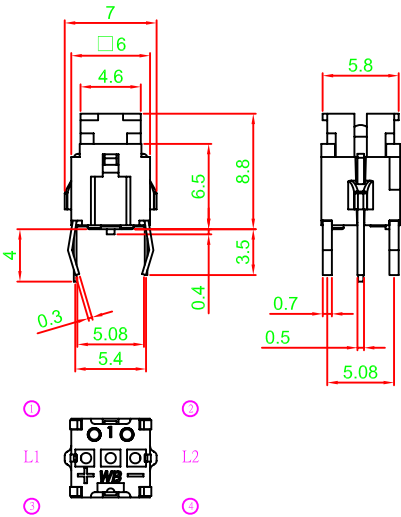
► HOW TO ORDER

TC013	-	N	1	1	A	S	K	S	K3	U	R	X	X
		OPERATION N NON-LOCK (std.)		POSITION 1 1 POSITION (std.)		FRAME TYPE S SQUARE S1 SQUARE S2 SQUARE S3 SQUARE S4 SQUARE S5 SQUARE R1 ROUND R2 ROUND R3 ROUND R4 ROUND R5 ROUND R6 ROUND X WITHOUT CAP		CAP COLOR K BLACK (std.) G GRAY N GREEN R RED O ORANGE X WITHOUT S SILVER		LED BRIGHTNESS U ULTRA (std.) R REGULAR X WITHOUT		LED BRIGHTNESS U ULTRA (std.) R REGULAR X WITHOUT	
		POLE 1 1 POLE (std.)											
				TERMINAL A P.C.B TYPE (std.)									
						HOUSING COLOR K BLACK (std.) G GRAY X WITHOUT							
								CAP SYMBOL Please refer to appendix 1(knob) For example K3  PK3:Printing K3:Laser carving PE1:Printing E1:Laser carving  WITHOUT		LED COLOR B BLUE G GREEN R RED W WHITE Y YELLOW X WITHOUT		LED COLOR B BLUE G GREEN R RED W WHITE Y YELLOW X WITHOUT	

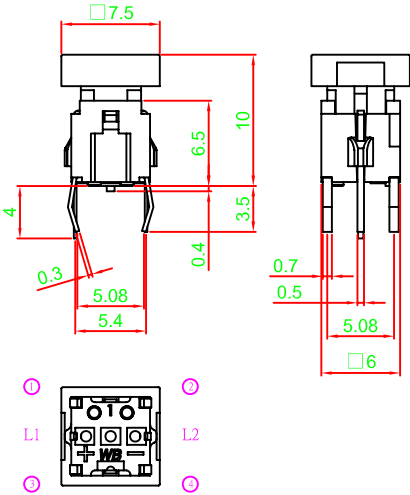


► DIMENSION

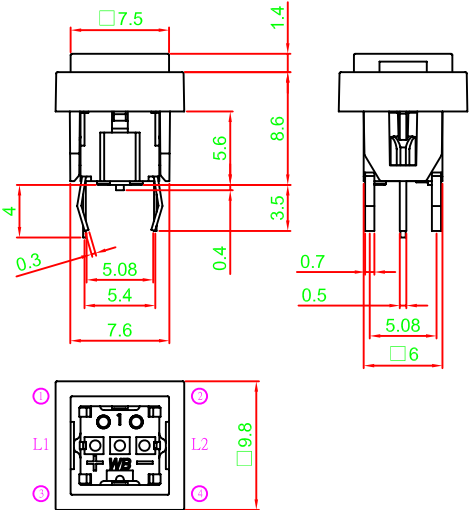
TC013-N11AXXX □ □ □ □



TC013-N11ASXK □ □ □ □

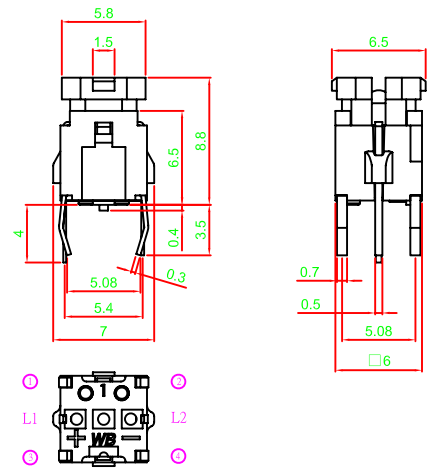


TC013-N11ASKK □ □ □ □

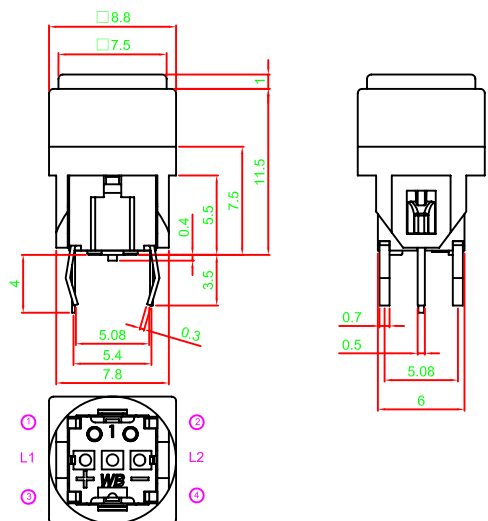


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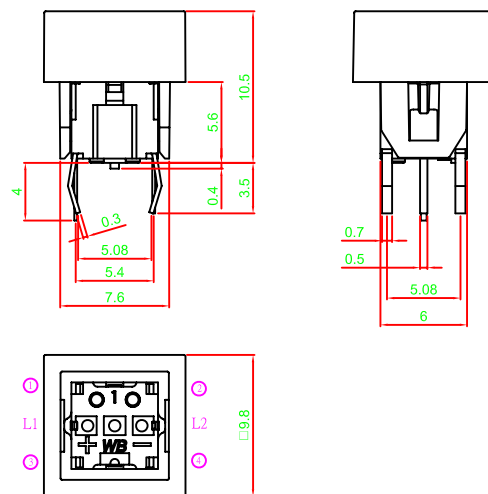
TC013-N11AS1XX □ □ □ □



TC013-N11AS1KT □ □ □ □

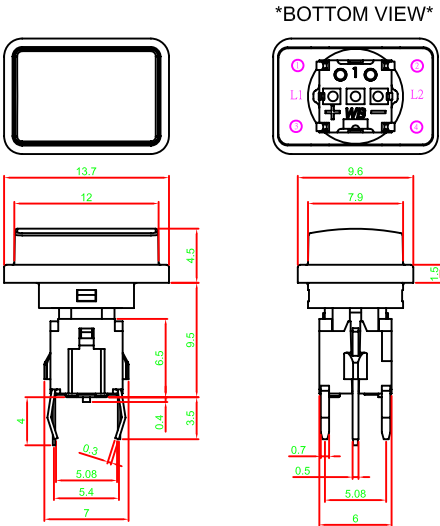


TC013-N11AS2KW □ □ □ □

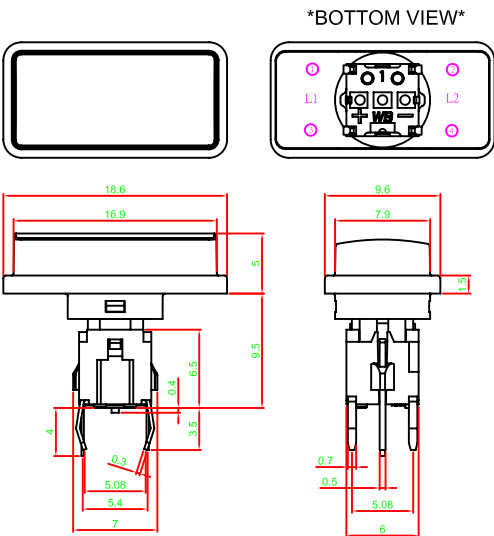


► DIMENSION

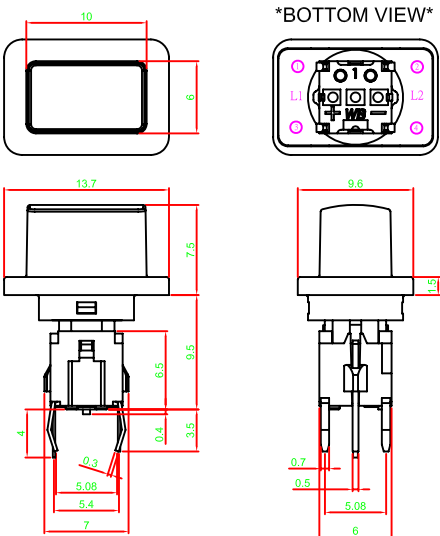
TC013-N11AS3XK □ □ □ □

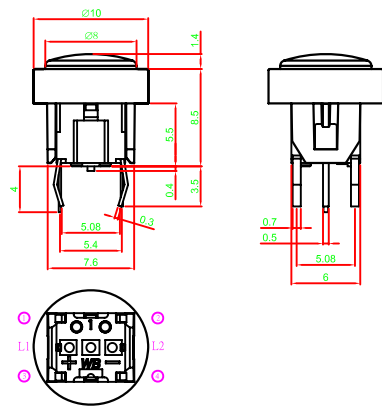
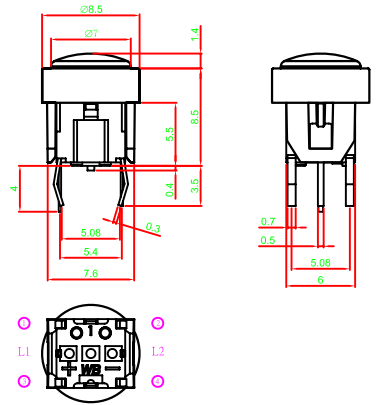
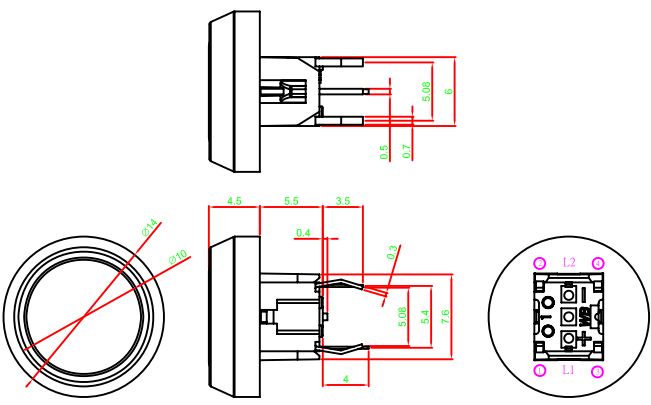
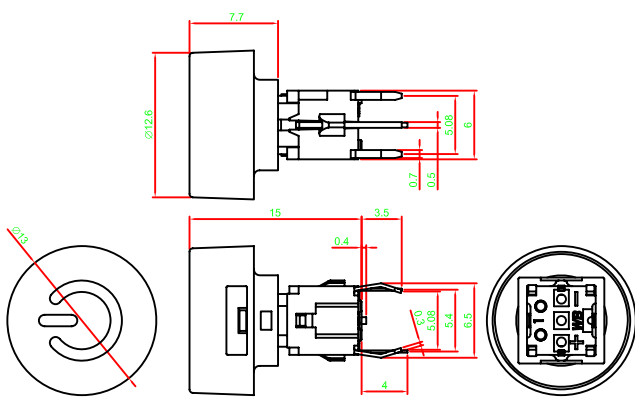


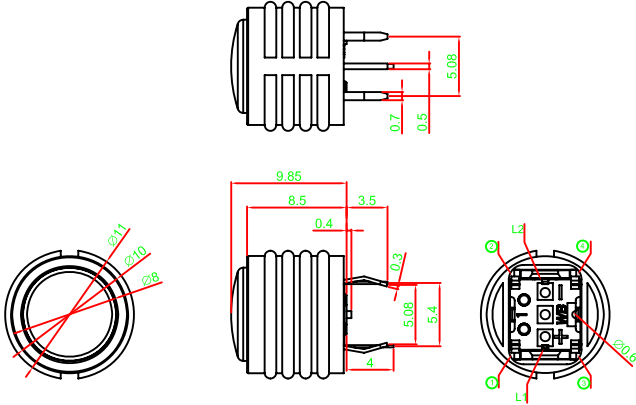
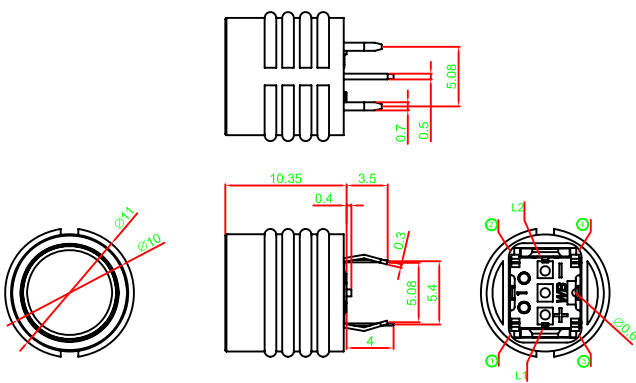
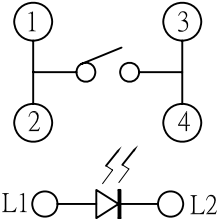
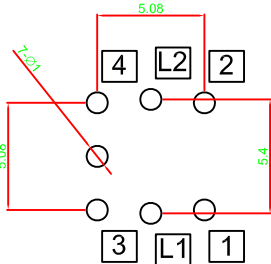
TC013-N11AS4XK □ □ □ □



TC013-N11AS5XW □ □ □ □



► DIMENSION	
TC013-N11AR1KW ☐ ☐ ☐ ☐	 
TC013-N11AR2KW ☐ ☐ ☐ ☐	 
TC013-N11AR3KW ☐ ☐ ☐ ☐	 
TC013-N11AR4XKK3 ☐ ☐ ☐ ☐	 

DIMENSION	
TC013-N11AR5KK □ □ □ □	 
TC013-N11AR6KK □ □ □ □	 
CIRCUIT	P.C.B LAYOUT
	
MATERIAL	UNIT WEIGHT
- COVER : PA - ACTUATOR : PA + GF - BASE FRAME : PA + GF - TERMINAL : BRASS SILVER PLATING	- TC013-N11AXXX □ □ □ □ : 0.35 ± 0.05 g / pc - TC013-N11ASXK □ □ □ □ : 0.45 ± 0.05 g / pc - TC013-N11ASKK □ □ □ □ : 0.65 ± 0.05 g / pc - TC013-N11AS1XX □ □ □ □ : 0.50 ± 0.05 g / pc - TC013-N11AS1KT □ □ □ □ : 0.72 ± 0.05 g / pc - TC013-N11AS3XK □ □ □ □ : 0.70 ± 0.05 g / pc - TC013-N11AS4XK □ □ □ □ : 0.95 ± 0.05 g / pc

Reference laser etching symbol and part number:



21-S-PC-WT-1



21-S-PC-WT-2



21-S-PC-WT-3



21-S-PC-WT-4



21-S-PC-WT-SK36



21-S-PC-WT-SK07



21-S-PC-WT-5



21-S-PC-WT-6



21-S-PC-WT-7



21-S-PC-WT-8



21-S-PC-W1-S



21-S-PC-WT-SK11



21-S-PC-WT-BR1



21-S-PC-WT-BR2



21-S-PC-WT-BR3



21-S-PC-WT-BR4



21-S-PC-WT-S1



21-S-PC-WT-K1



21-S-PC-WT-K2



21-S-PC-WT-K3



21-S-PC-WT-K4



21-S-PC-WT-K5



18A-PC-W-K1



18A-PC-W-K2



18A-PC-W-K3



18A-PC-W-K4



18B-PC-W-K1



18B-PC-W-K2



18B-PC-W-K3



18B-PC-W-K4



21-R1-PC-WT-K1



21-R1-PC-WT-RK05



21-R1-PC-WT-RK13



21-R2-PC-WT-K1



21-R2-PC-WT-K2



21-R3-PC-WT-R1

[illegible]