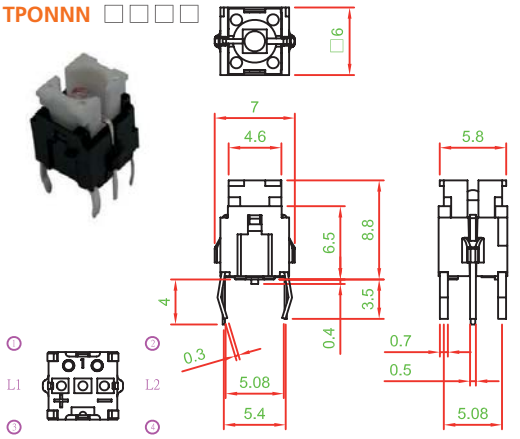
Tactile Switches

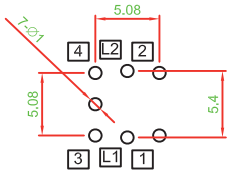
SPST THT Tactile Switches with LED

TPO Series

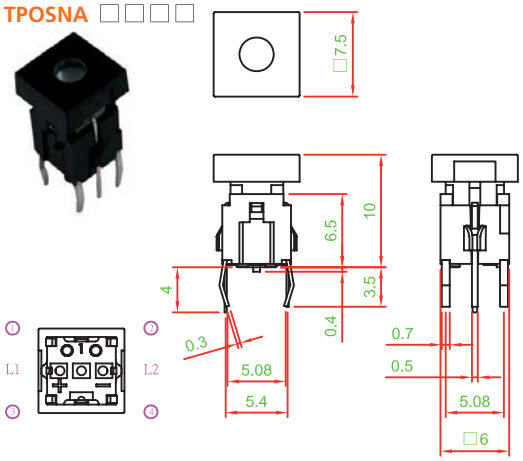
TPONNN □□□□



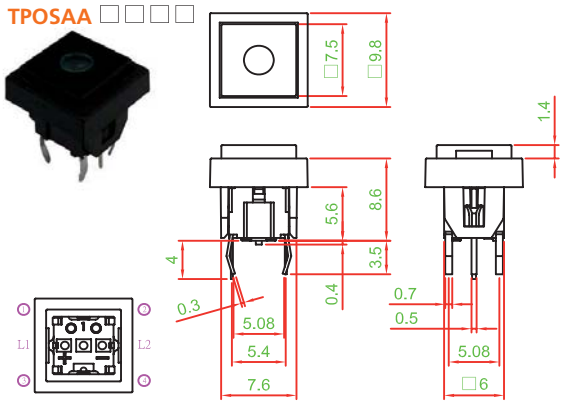
▶ P.C.B. LAYOUT



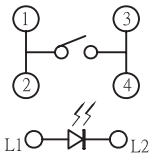
TPOSNA □□□□



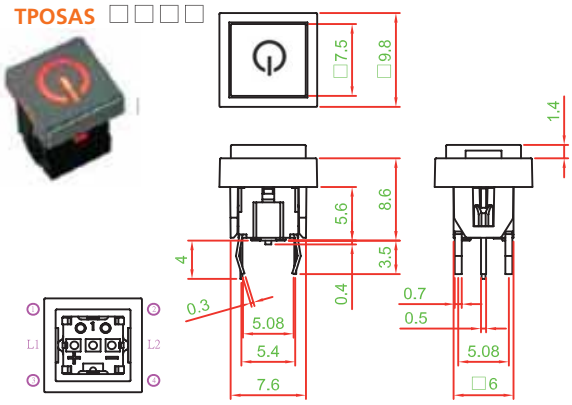
TPOSAA □□□□



▶ CIRCUIT DIAGRAM



TPOSAS □□□□



How to order:

TPO [1] [2] [3] [4] [5] [6] [7]

1 FRAME TYPE:
- S Square With Cap
- N Square Without Cap

2 HOUSING COLOR:
- A Black (std.)
- H Gray
- N Without

3 CAP COLOR:
- A Black (std.) H Gray F Green
- D Orange C Red N Without
- S Silver Laser with symbol (see drawing)

4 LEFT LED BRIGHTNESS:
- U Ultra Bright
- R Regular (std.)
- N Without LED

5 LEFT LED COLORS:
- G Blue F Green B White
- E Yellow C Red N Without

6 RIGHT LED BRIGHTNESS:
- U Ultra Bright
- R Regular (std.)
- N Without LED

7 RIGHT LED COLOR:
- G Blue F Green B White
- E Yellow C Red N Without

General Specifications:

Material

COVER - PA
ACTUATOR - PBT + GF
BASE FRAME - PA + GF
BRASS TERMINAL - SILVER PLATING

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	30	30	15	30	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@20mA	Vf	V	3.5-4.0	1.7-2.8	1.7-2.8	3.3-3.8	1.7-2.8
LUMINOUS INTENSITY@10mA	Iv	mcd	@20mA 180-245	24-40	4.0-7.0	@20mA 145	18-30