



Feature -

- small size
- bi-color LED illuminated available
- long electrical life cycles

Application -

- consumer products
- computer products
- instrumentation
- communication equipments

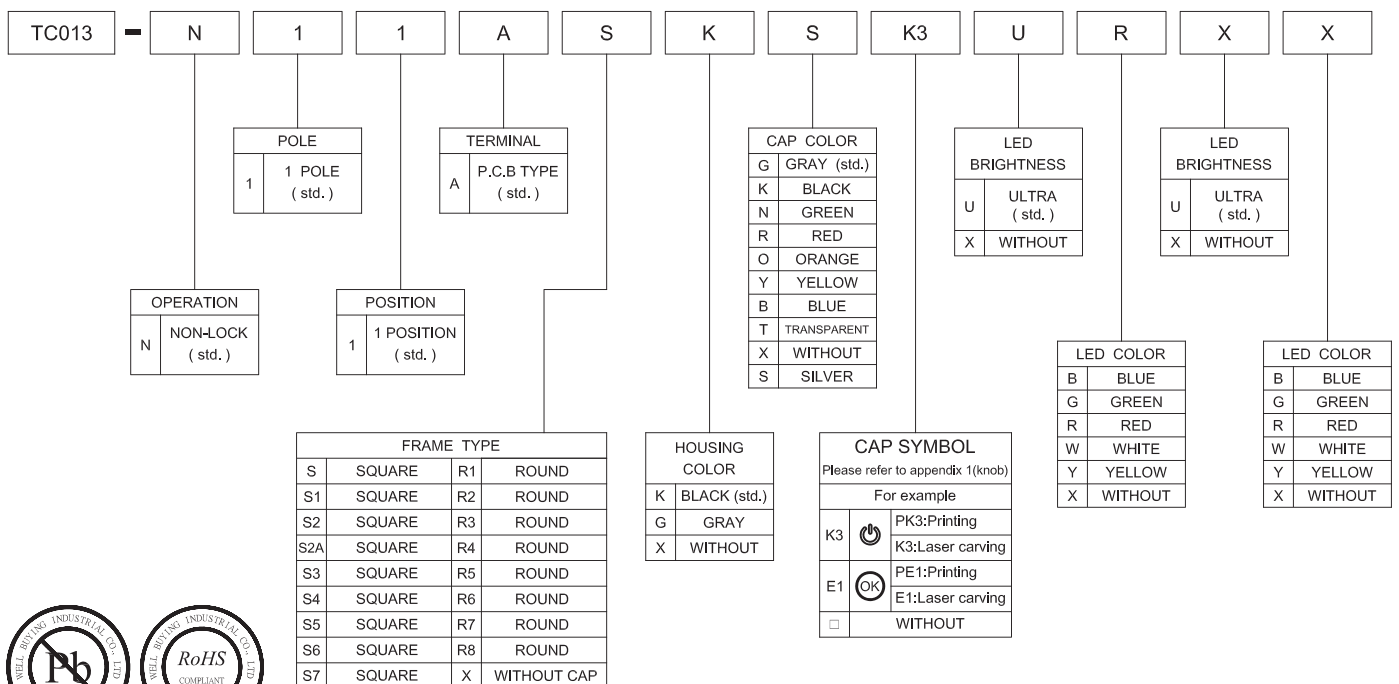
► SPECIFICATIONS

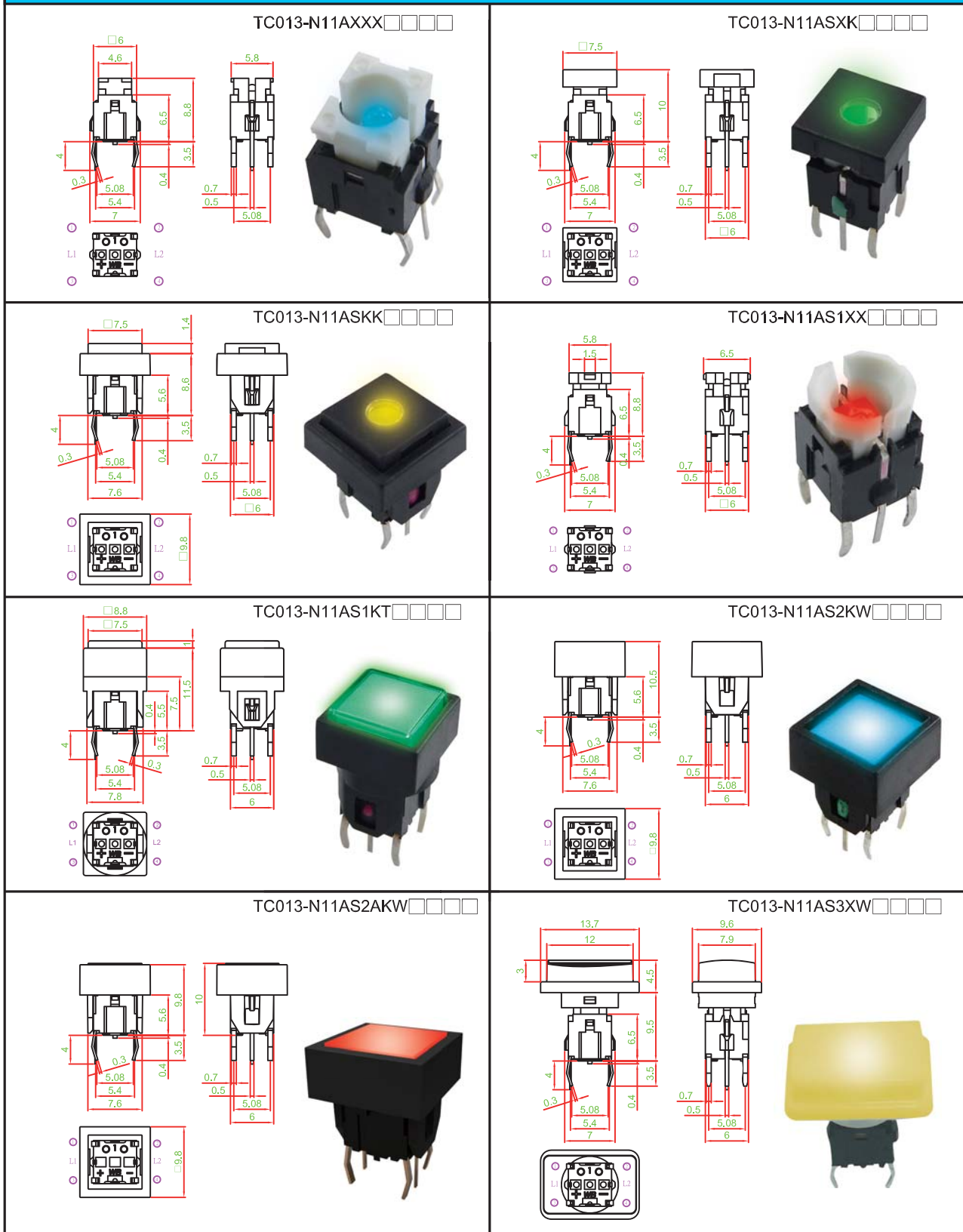
SWITCH SPECIFICATIONS	
POLE - POSITION	1P1T , with LED
CONTACT RATING	12 V DC , 50 mA
CONTACT RESISTANCE	100 mΩ MAX. 1.5 V DC ; 100 mA , by Method of Voltage DROP
INSULATION RESISTANCE	100 MΩ MIN. 500 V DC
DIELECTRIC STRENGTH	Breakdown is not Allowable ; 500 V AC for 1 Minute
OPERATING FORCE	180 ± 50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

LED SPECIFICATIONS		Unit	Value / LED Color				
			Blue	Green	Red	White	Yellow
ATTENTION LEDs are Electrostatic Sensitive devices	FORWARD CURRENT	If	10	20	20	2	20
	REVERSE VOLTAGE	Vr	5,0	5,0	5,0	5,0	5,0
	REVERSE CURRENT	Ir	10	10	10	10	10
	FORWARD VOLTAGE	Vf	@ 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	@ 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



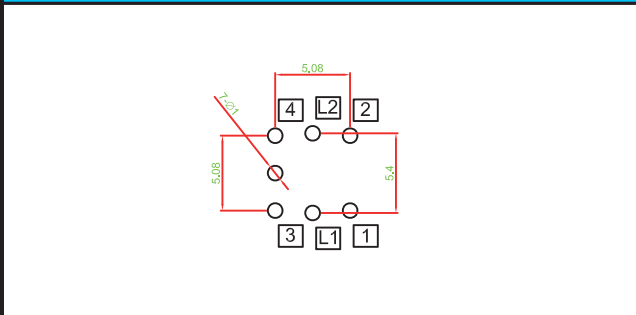
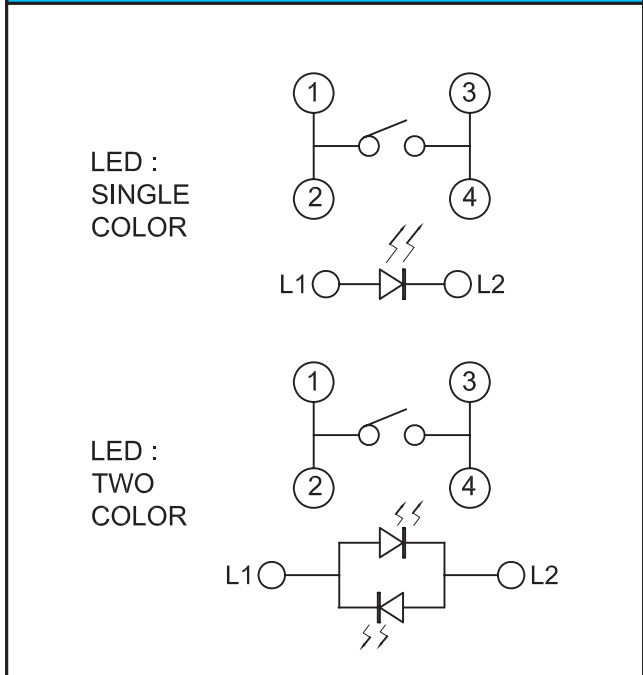
▶ FRAME TYPE OPTION


▶ **FRAME TYPE OPTION**

<p>TC013-N11AS4XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the blue frame type. Dimensions include: top width 18.6, top depth 16.9, top thickness 5, top width to LED 9.6, top width to LED 7.9, top thickness to LED 3.5, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 9.5, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7, LED height to LED 6.</p>	<p>TC013-N11AS5XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the green frame type. Dimensions include: top width 13.7, top depth 7.5, top thickness 7.5, top width to LED 9.6, top width to LED 7.9, top thickness to LED 3.5, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 9.5, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7, LED height to LED 6.</p>
<p>TC013-N11AS6XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the yellow frame type. Dimensions include: top width 11.2, top depth 6.5, top thickness 3.5, top width to LED 9.6, top width to LED 7.9, top thickness to LED 3.5, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 11.2, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7, LED height to LED 6.</p>	<p>TC013-N11AS7XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the red frame type. Dimensions include: top width 13, top depth 9.6, top thickness 7.5, top width to LED 11.5, top width to LED 9.6, top thickness to LED 3.5, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 13, LED height to LED 9.6, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7, LED height to LED 6.</p>
<p>TC013-N11AR1KW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the green frame type. Dimensions include: top width 10, top depth 10, top thickness 1.4, top width to LED 9.6, top width to LED 7.9, top thickness to LED 3.5, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7.6, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 10, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7.6, LED height to LED 6.</p>	<p>TC013-N11AR2KW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the blue frame type. Dimensions include: top width 28.5, top depth 27, top thickness 1.4, top width to LED 28.5, top width to LED 27, top thickness to LED 3.5, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7.6, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 28.5, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7.6, LED height to LED 6.</p>
<p>TC013-N11AR3KW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the red frame type. Dimensions include: top width 4.5, top depth 6.5, top thickness 3.5, top width to LED 5.08, top width to LED 7.6, top thickness to LED 0.7, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7.6, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 4.5, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7.6, LED height to LED 6.</p>	<p>TC013-N11AR4XKK3</p> <p>Technical drawings showing top, side, and bottom views of the yellow frame type. Dimensions include: top width 7.7, top depth 12.6, top thickness 6, top width to LED 7.7, top width to LED 6, top thickness to LED 3.5, LED height 0.4, LED width 5.08, LED width to LED 5.4, LED width to LED 7, LED height to LED 0.7, LED height to LED 0.5, LED height to LED 5.08, LED height to LED 6, LED height to LED 7.7, LED height to LED 3.5, LED height to LED 0.3, LED height to LED 4, LED height to LED 0.3, LED height to LED 5.08, LED height to LED 5.4, LED height to LED 7, LED height to LED 6.</p>

▶ FRAME TYPE OPTION

<p style="text-align: center;">TC013-N11AR5KW□□□□</p>	<p style="text-align: center;">TC013-N11AR6KW□□</p>
<p style="text-align: center;">TC013-N11AR7KW□□□□ (ODM)</p>	<p style="text-align: center;">TC013-N11AR8KW□□ (ODM)</p>

▶ CIRCUIT ▶ P.C.B LAYOUT

▶ MATERIAL

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

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
B	A	B	C	D	E	F	G	H	I	J	CH5	CH6	DSK	PIP	Q-KEY	CUT	TAKE	REC	ENG	PROD
C	K	L	M	N	O	P	Q	R	S	T	REPLAY	RET1	RET2	KEY ON	AUTO TAKE	A1	A2	A3	A4	0
D	U	V	W	X	Y	Z	POWER	ON OFF	ON	OFF	USER A	USER B	USER C	USER D	USER E	USER F	USER G	USER H	USER I	
E	OK	OK	Auto	Enter	Start	STOP	OPEN	CLOSE	Exit	Move	USER J	↶	✕	□	⏮	⏪	⏩	⏭	M-1	⏭
F	SET	Reset	Light	Alarm	Menu	Next	Back	Delete	Motor	Save	⏮	⏪	⏩	⏭	✓1	✓2	☰	↑	↶	↷
G	Up	Down	Right	Left	Test	End	Insert	Lock	Print	+/-	⏮	⏪	⏩	⏭	⏮					
H	ESC	BC	HOME	Health	D-LED 2	OC GENIE	VIDEO INPUT	clr CMOS	Green Power	Save OK										
I	B/R	Undo	T/L	F1	F2	F3	F4	F5	F6	F7										
J	F8	F9	F10	F11	F12	F13	F14	IN 1	IN 2	IN 3										
K	IN 4	IN 5	IN 6	⏮	⏪	⏩	⏭	⏮	⏪	⏩										
L	+	-	×	÷	=	↑	→	▲	▶	▶										
M	↕	⏮	⏪	⏩	⏭	↑	→	↑	→											
N	↑	→	▲	◀	▶	◀	▶	◀	▶											
O	■	⏮	⏪	⏩	⏭	⏮	⏪	⏩	⏭	⏮										
P	⏮	⏪	⏩	⏭	⏮	⏪	⏩	⏭	⏮	⏪										
Q	ME3	ME4	BGND 3D DVE1	BGND 3D DVE2	BUS COLOR	ME BUTTON LINK	*	INSERT	WIPE	⏮										
R	⏮	ALL	⏮	VP	⏮	COPY	⏮	RECORD MODE	↑	⏮										
S	🔊	♥	MUTE	🔊	🔊	🔊	🔊	🔊	🔊	🔊										
T	🔊	🔊	group	🔊	🔊	🔊	🔊	🔊	🔊	🔊										
U	🔊	🔊	chair	🔊	🔊	🔊	🔊	🔊	🔊	🔊										
V	🔊	🔊	OC	🔊	🔊	CLEAR	CROSS WIND	AMMO TEMP	BARO PRESS	AIR TEMP										
W	BORE-SIGHT	CANT	LEAD	RANGE	MRS	ZERO	TEST	UD	LR	🔊										
X	ID	Disp	MF	GALL	⏮	BAND	SETUP	MODE	LINK	FUNC.										
Y	SHIFT	🔊	🔊	🔊	🔊	DEL	🔊	🔊	🔊	🔊										
Z	🔊	🔊	🔊	RUN	2D	3D	CH1	CH2	CH3	CH4										

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

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