Feature -

medium size, bi-color LED illuminated available

long electrical life cycles

SMT and vertical PCB terminal

symbol film available between the cap and diffuser

Application -

consumer products

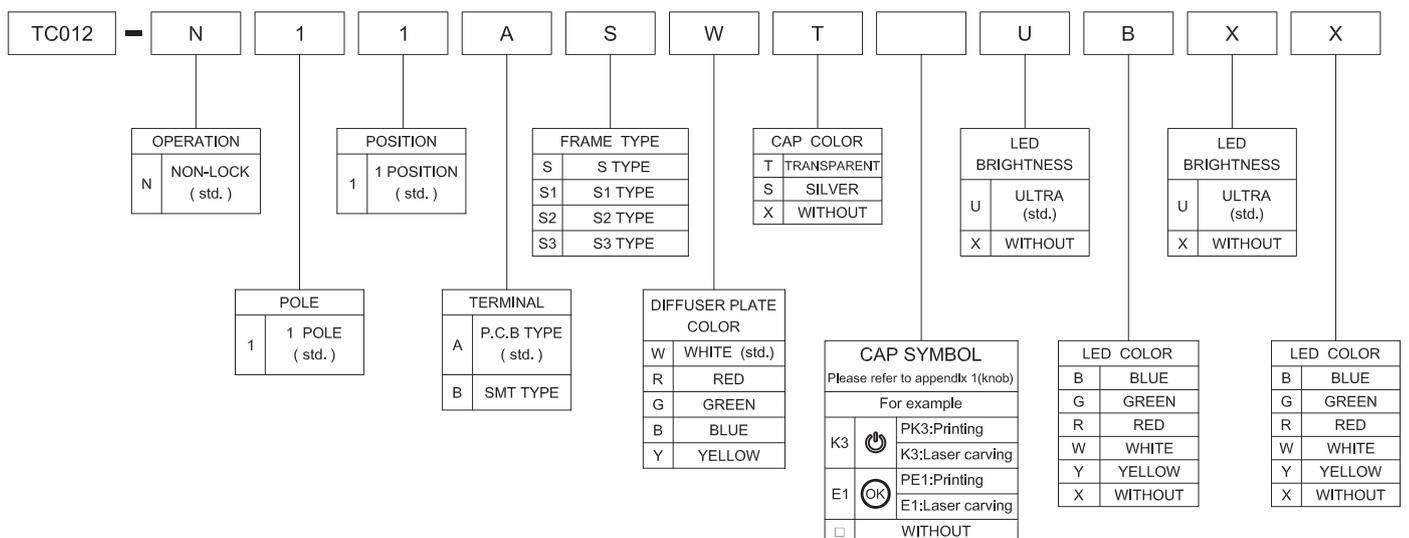computer products

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	250 ± 50 gf
OPERATING LIFE	100,000 cycles
OPERATING TEMPERATURE RANGE	-20°C ~ 70°C
TOTAL TRAVEL	0.35 ± 0.1 mm

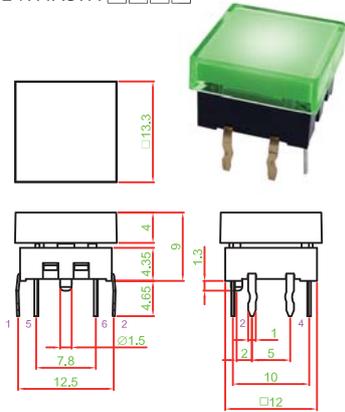| LED SPECIFICATIONS							
ATTENTION LEDs are Electrostatic Sensitive devices		Unit	Value / LED Color				
			Blue	Green	Red	White	Yellow
FORWARD CURRENT	If	mA	10	20	20	2	20
REVERSE VOLTAGE	Vr	V	5.0	5.0	5.0	5.0	5.0
REVERSE CURRENT	Ir	µA	10	10	10	10	10
FORWARD VOLTAGE	Vf	V	@ 10mA 3.0-4.0	2.1-2.5	2.0-2.5	@ 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

TC012	—	N	1	1	A	S	W	T		U	B	X	X

OPERATION	
N	NON-LOCK (std.)

POSITION	
1	1 POSITION (std.)

FRAME TYPE	
S	S TYPE
S1	S1 TYPE
S2	S2 TYPE
S3	S3 TYPE

CAP COLOR	
T	TRANSPARENT
S	SILVER
X	WITHOUT

LED BRIGHTNESS	
U	ULTRA (std.)
X	WITHOUT

LED BRIGHTNESS	
U	ULTRA (std.)
X	WITHOUT

POLE	
1	1 POLE (std.)

TERMINAL	
A	P.C.B TYPE (std.)
B	SMT TYPE

DIFFUSER PLATE COLOR	
W	WHITE (std.)
R	RED
G	GREEN
B	BLUE
Y	YELLOW

CAP SYMBOL Please refer to appendix 1(knob)		
	For example	
K3	⏻	PK3:Printing K3:Laser carving
E1	OK	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

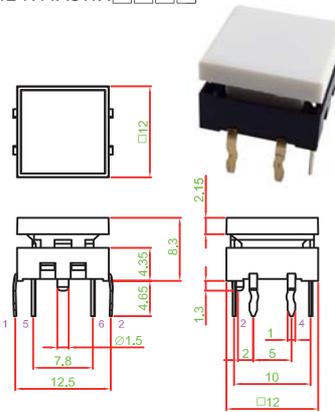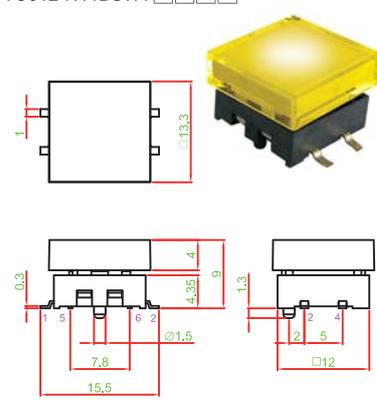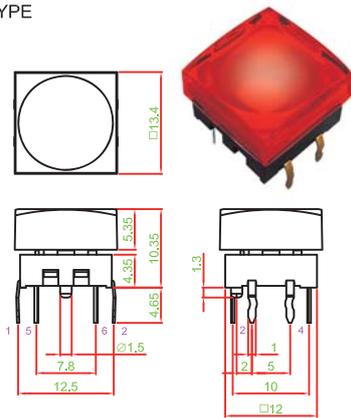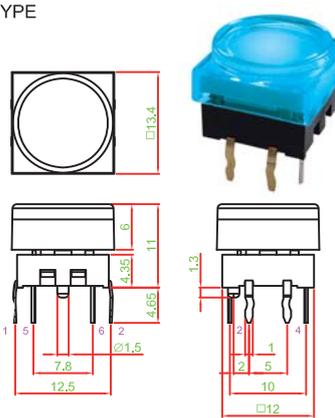## ▶ DIMENSION

TC012-N11ASWT□□□□

TC012-N11ASWX□□□□

TC012-N11BSWT□□□□

▶ FRAME TYPE OPTION

S1 TYPE

S2 TYPE

S3 TYPE

▶ CIRCUIT

1 ○——○ 3
2 ○——○ 4
5 ○——▷|——○ 6
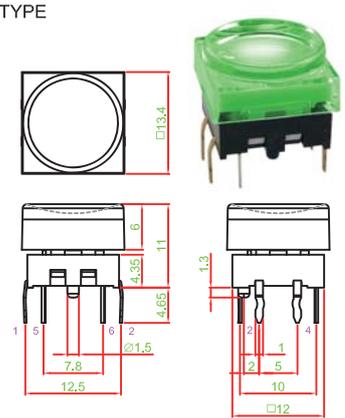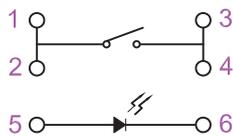
▶ P.C.B LAYOUT

P.C.B TYPE
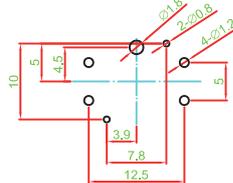
SMT TYPE

▶ REFLOW SOLDERING

MAX 260
230
150
0

TERMPERATURE(°C)

120±30   40~60   TIME (s)
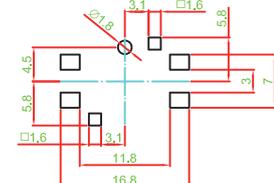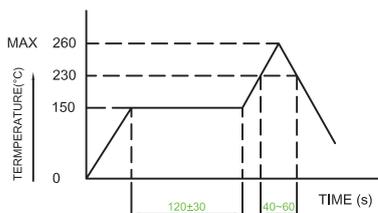
▶ MATERIAL

■ ACTUATOR : PA+GF

■ TERMINAL : BRASS GOLD FLASH

■ BASE FRAME : PA+GF

■ COVER : PC

WB ®

	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	C-KEY	CUT	TAKE	REC	ENG	PROD
C	K	L	M	N	O	P	Q	R	S	T	REPLAY	RET1	RET2	KEY ON	AUTO TAKE					
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									
F	SET	Reset	Light	Alarm	Menu	Next	Back	Delete	Motor	Save										
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 +	Unclo Canccl	T/L -	F1	F2	F3	F4	F5	F6	F7										
⌐	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							Config.	TIME LINE	MEI	ME2										
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		hold	group	m1	m2	m3	m4	m5												
U	s1	s2	chair	undo	redo		start	recall												
V			OC			CLEAR	CROSS WIND	AMMO TEMP	BARO PERSS	AIR TEMP										
W	BORE-SIGHT	CANT	LEAD	RANGE	MRS	ZERO	TEST	U D	L R											
X	ID	Disp	MF	CALL	.	BAND	SETUP	MODE	LINK	FUNC.										
Y	SHIFT					DEL														
Z				RUN	2D	3D	CH1	CH2	CH3	CH4										

Mouser Electronics

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