



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 .

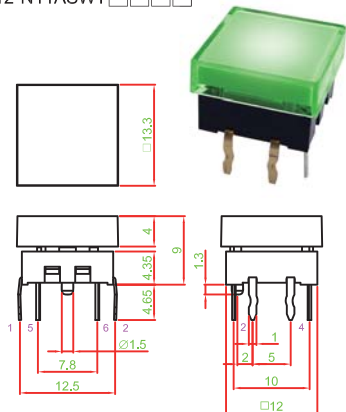
► **HOW TO ORDER**

TC012	-	N	1	1	A	S	W	T		U	B	X	X
		OPERATION		POSITION		FRAME TYPE		CAP COLOR		LED BRIGHTNESS		LED BRIGHTNESS	
		N NON-LOCK (std.)		1 1 POSITION (std.)		S S TYPE		T TRANSPARENT		U ULTRA (std.)		U ULTRA (std.)	
						S1 S1 TYPE		S SILVER		X WITHOUT		X WITHOUT	
						S2 S2 TYPE		X WITHOUT					
						S3 S3 TYPE							
		POLE		TERMINAL		DIFFUSER PLATE COLOR		CAP SYMBOL		LED COLOR		LED COLOR	
		1 1 POLE (std.)		A P.C.B TYPE (std.)		W WHITE (std.)		Please refer to appendix 1(knob)		B BLUE		B BLUE	
				B SMT TYPE		R RED		For example		G GREEN		G GREEN	
						G GREEN		K3:Printing		R RED		R RED	
						B BLUE		K3:Laser carving		W WHITE		W WHITE	
						Y YELLOW		PE1:Printing		X WITHOUT		Y YELLOW	
								E1:Laser carving				X WITHOUT	
								WITHOUT					

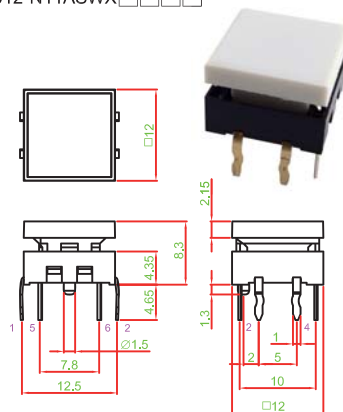


► DIMENSION

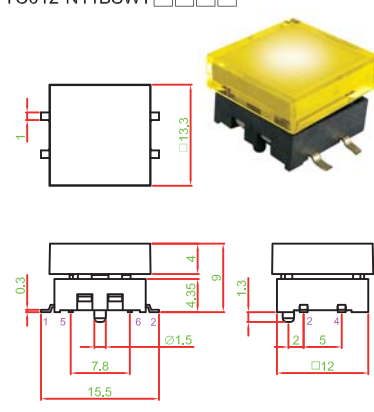
TC012-N11ASWT



TC012-N11ASWX

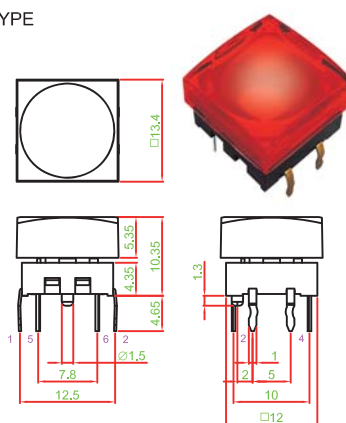


TC012-N11BSWT

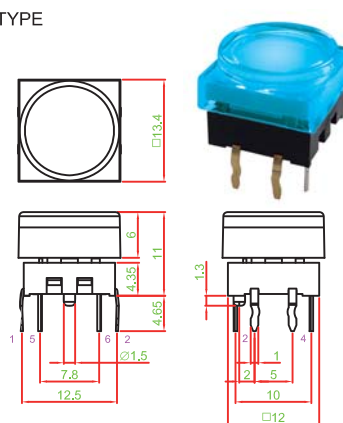


► FRAME TYPE OPTION

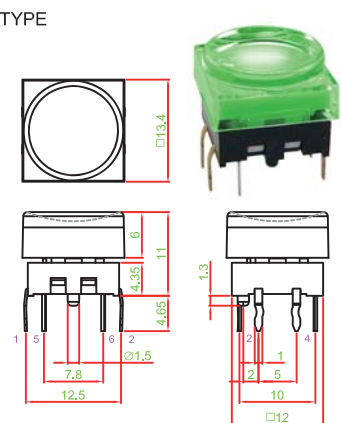
S1 TYPE



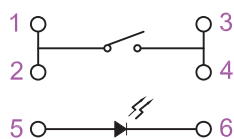
S2 TYPE



S3 TYPE

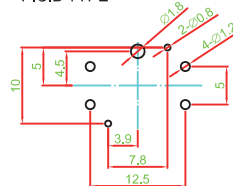


► CIRCUIT

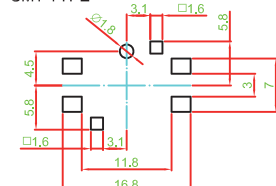


► P.C.B LAYOUT

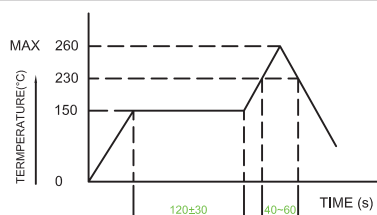
P.C.B TYPE



SMT TYPE



► REFLOW SOLDERING



► MATERIAL

- ACTUATOR : PA+GF
- TERMINAL : BRASS GOLD FLASH
- BASE FRAME : PA+GF
- COVER : PC

	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		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	Undo Cancel	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	+	-	x	÷	=	↑	→	▲	▶	▶										
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																				
U																				
V																				
W	BORE-SIGHT	CANT	LEAD	RANGE	MRS	ZERO	TEST	UD	LR											
X	ID	Disp		GALL		BAND	SETUP	MODE	LINK	FUNC										
Y	SHIFT					DEL														
Z				RUN	2D	3D	CH1	CH2	CH3	CH4										

Mouser Electronics

Authorized Distributor

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