TC012 SERIES
LED TACT SWITCH

Feature -
- medium size,
- bi-color LED illuminated available
- long electrical life
- 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			Value / LED Color				
ATTENTION (+) (-) LEDs are Electrostatic Sensitive devices		Unit	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.)

POLE

1	1 POLE (std.)

POSITION

1	1 POSITION (std.)

TERMINAL

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

FRAME TYPE

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

DIFFUSER PLATE COLOR

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

CAP COLOR

T	TRANSPARENT
S	SILVER
X	WITHOUT

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 BRIGHTNESS

U	ULTRA (std.)
X	WITHOUT

LED BRIGHTNESS

U	ULTRA (std.)
X	WITHOUT

LED COLOR

B	BLUE
G	GREEN
R	RED
W	WHITE
Y	YELLOW
X	WITHOUT

LED COLOR

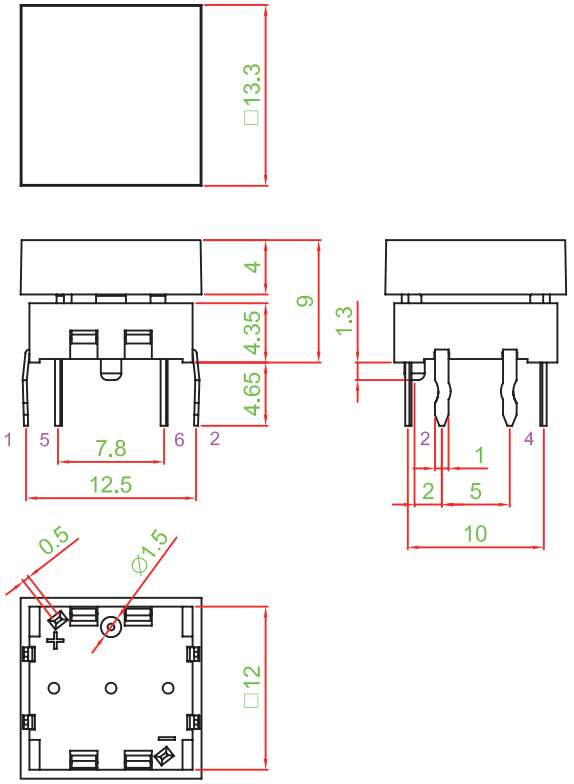
B	BLUE
G	GREEN
R	RED
W	WHITE
Y	YELLOW
X	WITHOUT

WELL BUYING INDUSTRIAL CO., LTD Pb LEAD FREE

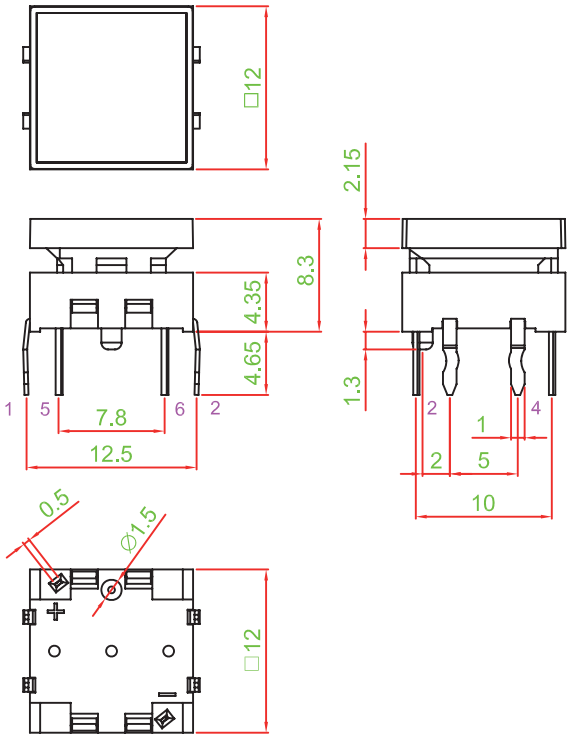
WELL BUYING INDUSTRIAL CO., LTD RoHS COMPLIANT 2002/95/EU

▶ DIMENSION

TC012-N11ASWT□□□□

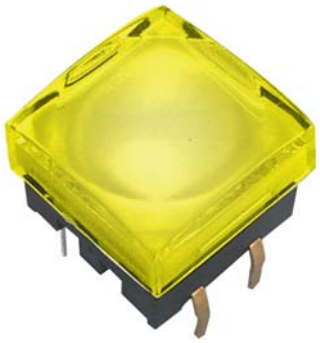


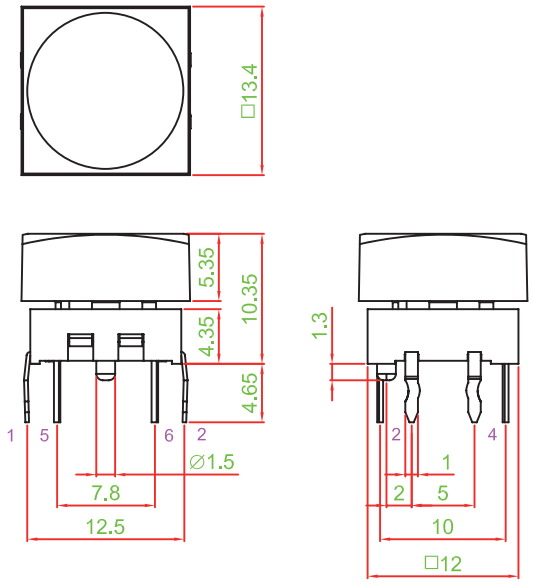
TC012-N11ASWX□□□□



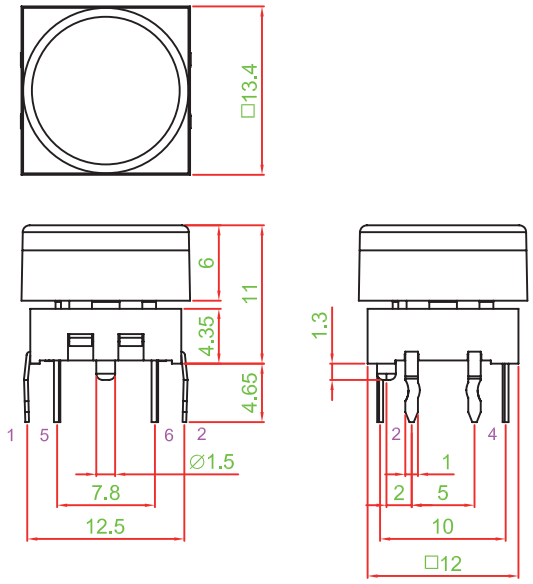
▶ DIMENSION

TC012-N11AS1WT□□□□

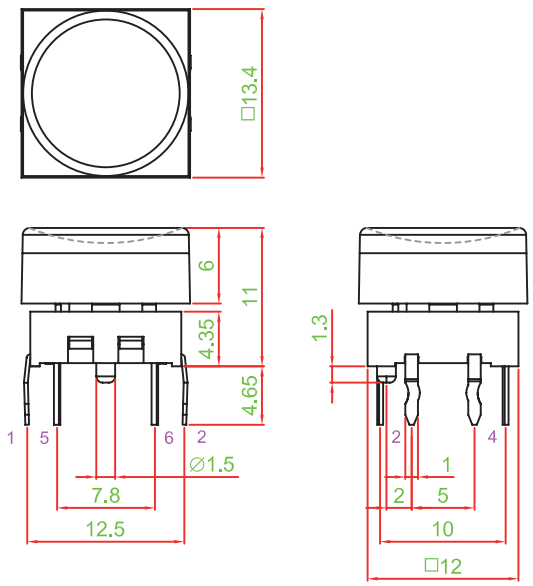




TC012-N11AS2WT□□□□

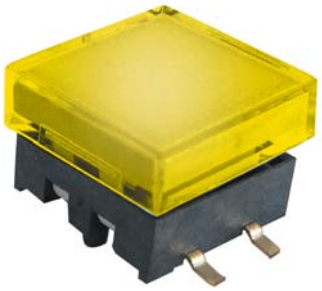


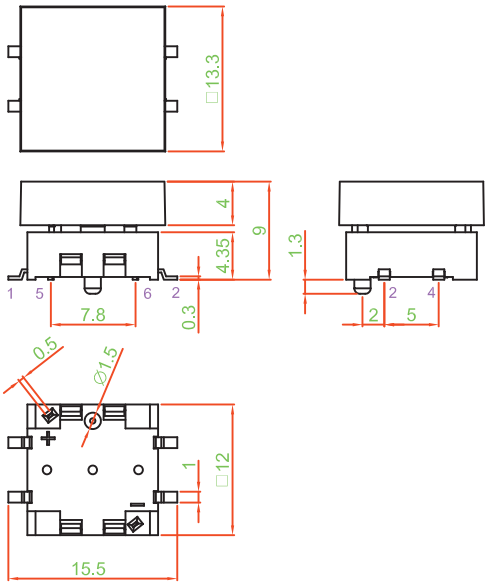
TC012-N11AS3WT□□□□



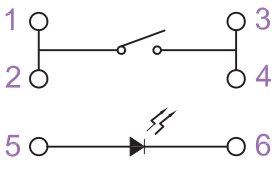
▶ DIMENSION

TC012-N11BSWT□□□□



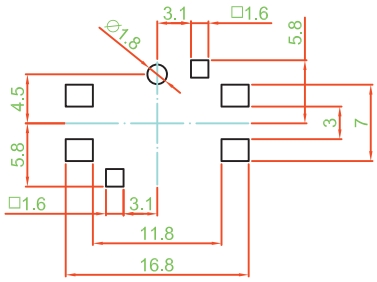


▶ CIRCUIT

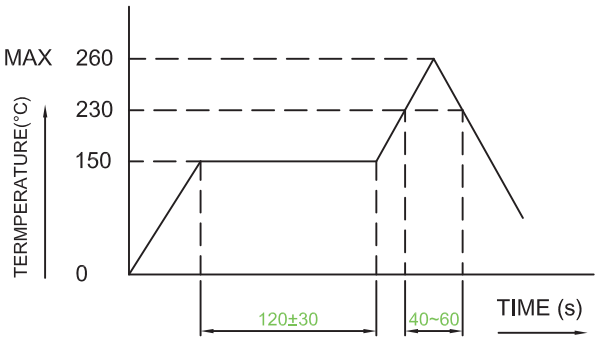


▶ P.C.B LAYOUT

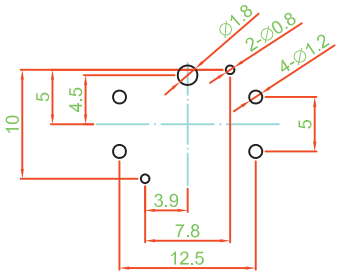
SMT TYPE



▶ REFLOW SOLDERING



P.C.B TYPE



▶ MATERIAL

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

▶ UNIT WEIGHT

- TC012-N11ASWXUBXX : 0.85 ± 0.05 g / pc
- TC012-N11ASWTUBXX : 1.3 ± 0.05 g / pc
- TC012-N11BSWTUBXX : 1.28 ± 0.05 g / pc

CAP SYMBOL

	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										
B	A	B	C	D	E	F	G	H	I	J										
C	K	L	M	N	O	P	Q	R	S	T										
D	U	V	W	X	Y	Z	POWER	ON / OFF	ON	OFF										
E	OK	OK	Auto	Enter	Start	STOP	OPEN	CLOSE	Exit	Move										
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										
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							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		Multi BIOS															
T		hold	group	m1	m2	m3	m4	m5	t1	t2										
U	a1	a2	chair	undo	redo	touch	store	recall	e1	e2										
V	e3	e4	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																		
Y																				
Z																				