



Feature -

- small size
- bi-color LED illuminated available
- long electrical life cycles
- right angle and vertical PCB terminal

Applications -

- consumer products
- computer products
- instrumentation
- communication equipments

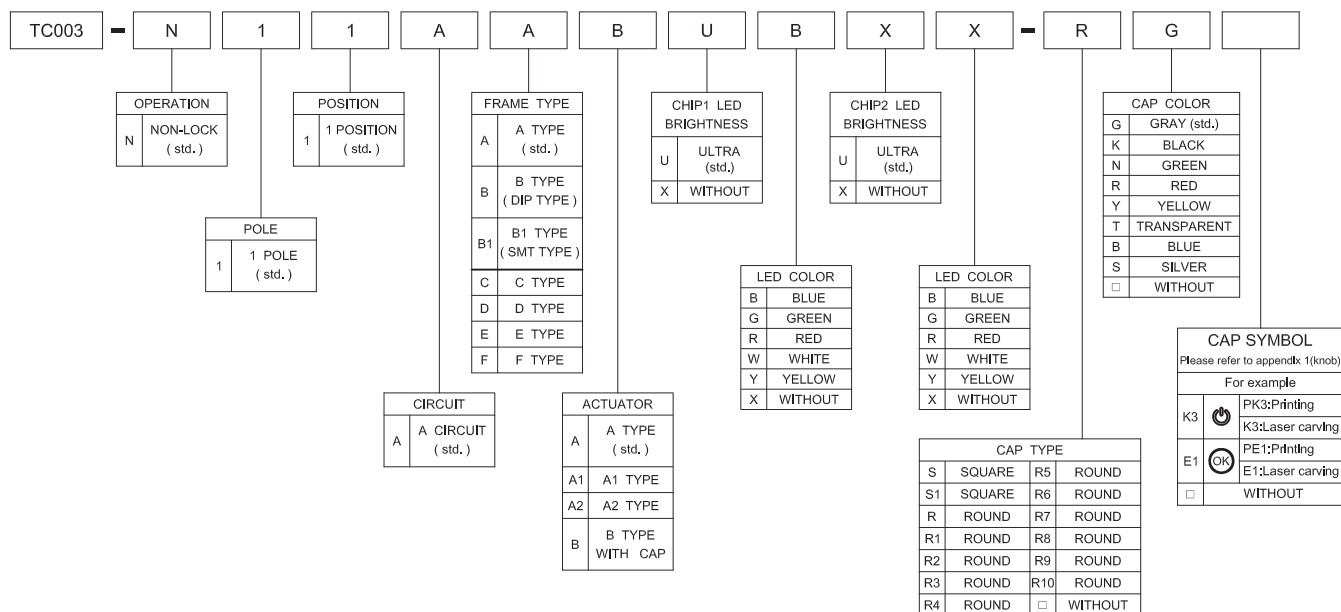
► **SPECIFICATIONS**

SWITCH SPECIFICATIONS	
POLE - POSITION	1P1T, Right Angle Push on Type, with or w/o LED are Available
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	160 ± 50 gf
OPERATING LIFE	500,000 cycles
OPERATING TEMPERATURE RANGE	-20°C ~ 70°C
TOTAL TRAVEL	0.2 ± 0.1 mm

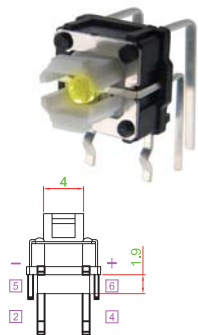
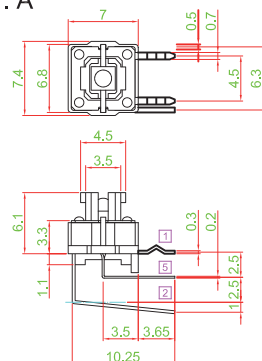
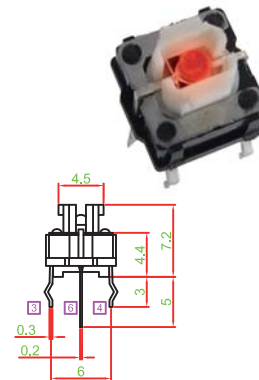
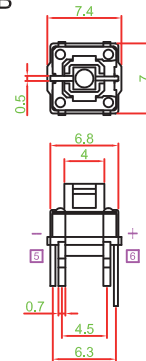
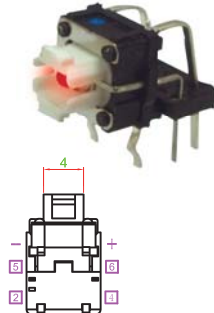
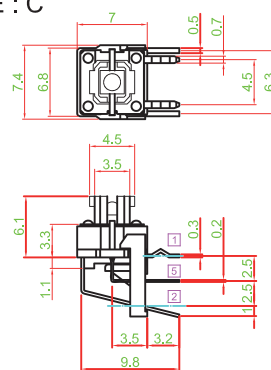
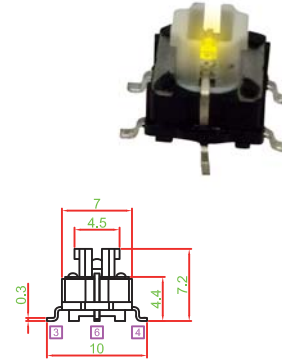
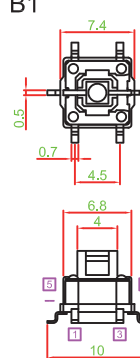
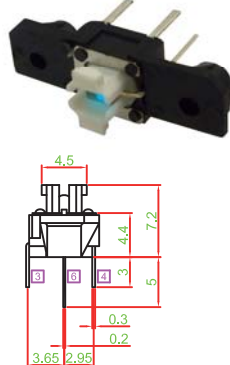
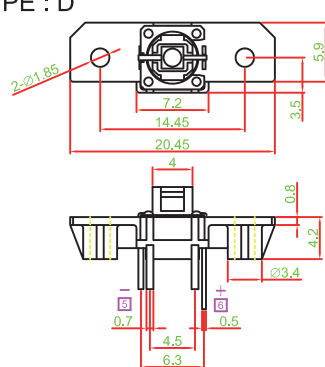
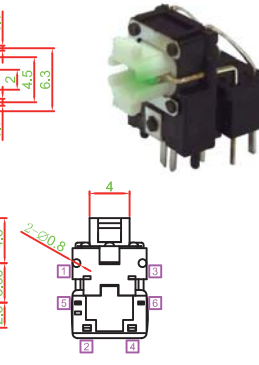
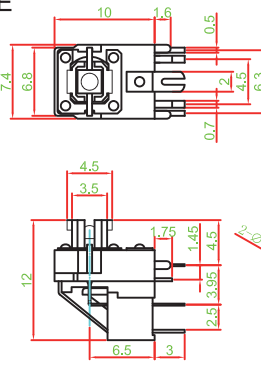
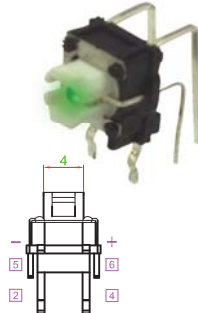
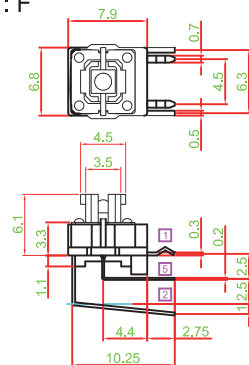
LED SPECIFICATIONS							
 ATTENTION LEDs are Electrostatic Sensitive devices		Unit	Value / LED Color				
			Blue	Green	Red	White	Yellow
FORWARD CURRENT	If	mA	10	20	20	2	20
REVERSE VOLTAGE	Vr	V	5.0	5.0	5.0	5.0	5.0
REVERSE CURRENT	Ir	μA	10	10	10	10	10
FORWARD VOLTAGE	Vf	V	@ 10mA 3.0~4.0	2.1~2.5	2.0~2.5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

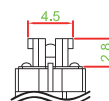
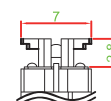
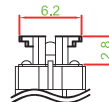
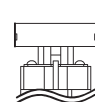
► **HOW TO ORDER**



▶ FRAME TYPE OPTION

TYPE : A

TYPE : B

TYPE : C

TYPE : B1

TYPE : D

TYPE : E

TYPE : F


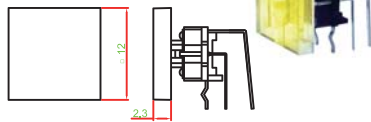
▶ ACTUATOR TYPE OPTION

TYPE : A

TYPE : A1

TYPE : A2

TYPE : B


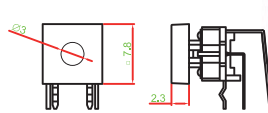
WITH CAP

► **KNOB TYPE OPTION**

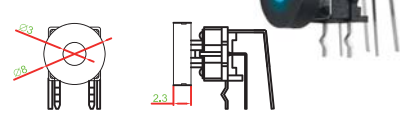
S TYPE



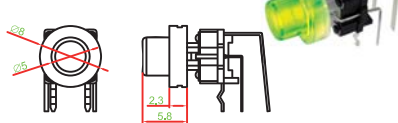
S1 TYPE



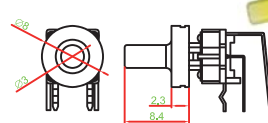
R TYPE



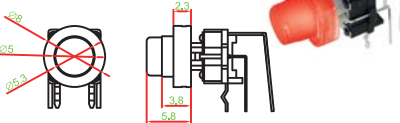
R1 TYPE



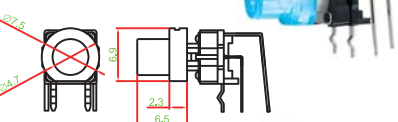
R2 TYPE



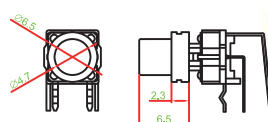
R3 TYPE



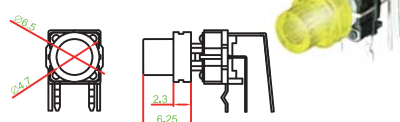
R4 TYPE



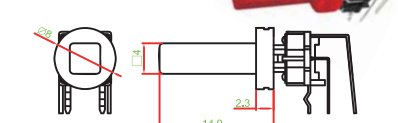
R5 TYPE



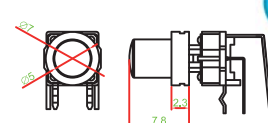
R6 TYPE



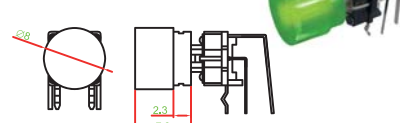
R7 TYPE



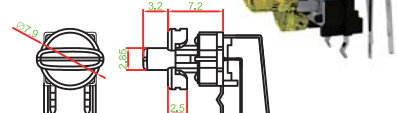
R8 TYPE (ODM)



R9 TYPE (ODM)

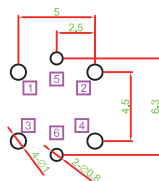


R10 TYPE

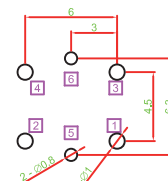


► **P.C.B LAYOUT**

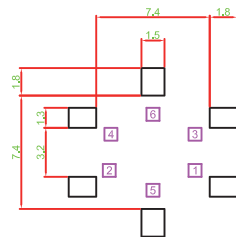
RIGHT ANGLE



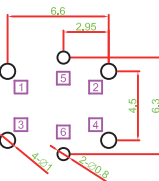
FRAME : B



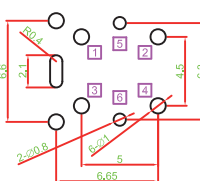
FRAME : B1



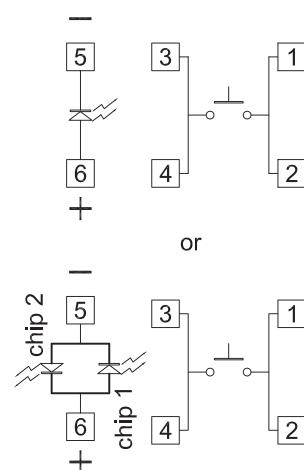
FRAME : D



FRAME : E



► **CIRCUIT**



► **MATERIAL**

- COVER : PA
- ACTUATOR : PA + GF
- BASE FRAME : PA + GF
- STEADY PLATE : SUS
- 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	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								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	+/-							IN PORT	SOS		TC
H	ESC	BC.	HOME	Health	D-LED 2	OC GENIE	VIDEO INPUT	clr CMOS	Green Power	Save OK	P1	P2	P3	P4	P5	D C	A C			TURBO
I				F1	F2	F3	F4	F5	F6	F7	SEEK	TRACK	RNA	AS/RPT	Select		SET	ON	OFF	UP
J	F8	F9	F10	F11	F12	F13	F14	IN 1	IN 2	IN 3						ON AIR		D.	M.	
K	IN 4	IN 5	IN 6												HDMI	VGA				
L	+	-	x		=							MON	ITEM	C/S	GAS	PUMP ON/OFF	PURGE	R/HR	PARL	IOD
M											FILL	LO RANGE	MID RANGE	MID	HI RANGE	GPD	EFF LEVEL			
N																				
O																				
P							Config.	TIME LINE	ME1	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	t1	t2										
U	s1	s2	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	UD	LR											
X	ID	Disp	Mf	CALL	.	BAND	SETUP	MODE	LINK	FUNC.										
Y	SHIFT					DEL														
Z				RUN	2D	3D	CH1	CH2	CH3	CH4										