



- 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

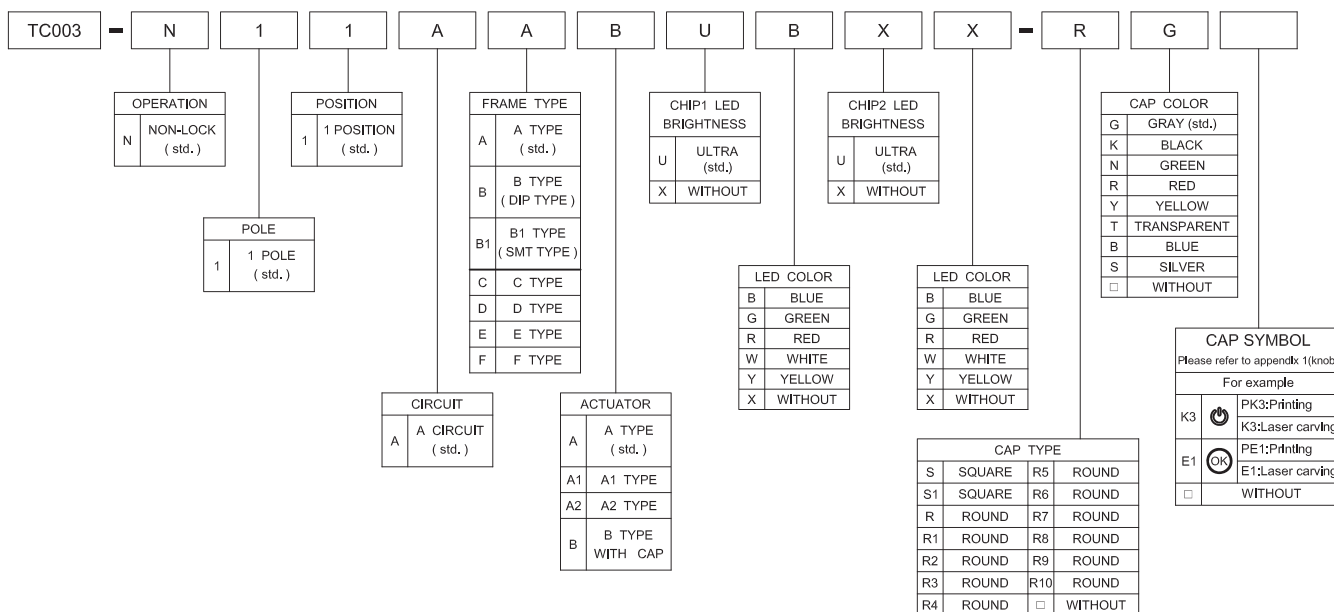
► SPECIFICATIONS

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 Mhute
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		Value / LED Color					
ATTENTION	Unit	Blue	Green	Red	White	Yellow	
		LEDs are Electrostatic Sensitive devices					
FORWARD CURRENT	If	mA	10	20	20	2	
REVERSE VOLTAGE	Vr	V	5.0	5.0	5.0	5.0	
REVERSE CURRENT	Ir	μA	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

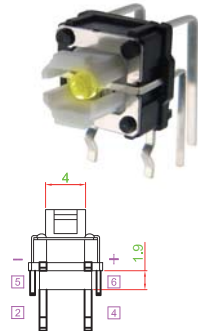
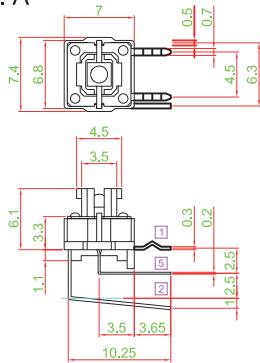
■ Physical and electrical information of LED will be provided upon customer's request on switches .

► HOW TO ORDER

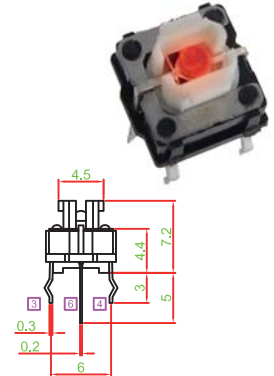
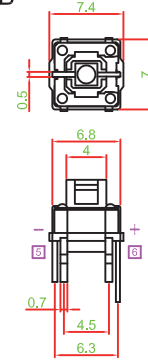


▶ **FRAME TYPE OPTION**

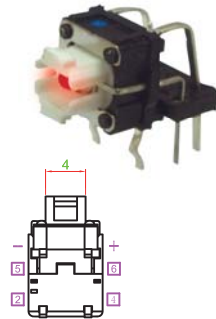
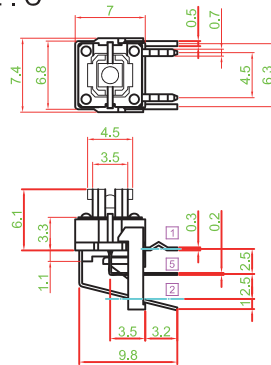
**TYPE : A**



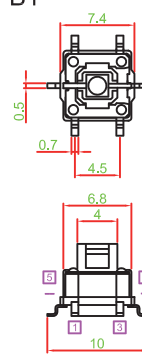
**TYPE : B**



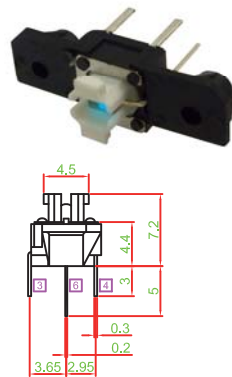
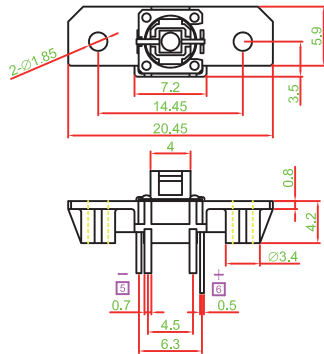
**TYPE : C**



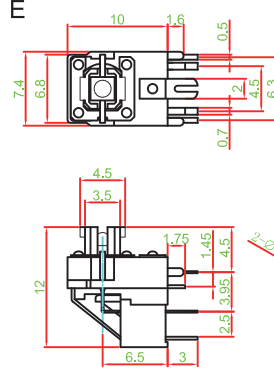
**TYPE : B1**



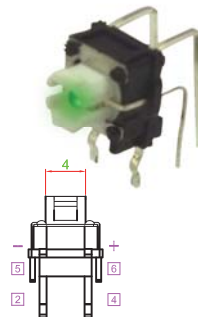
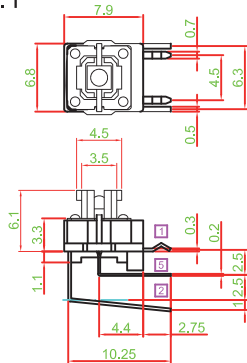
**TYPE : D**



**TYPE : E**

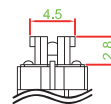


**TYPE : F**

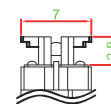


▶ **ACTUATOR TYPE OPTION**

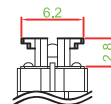
**TYPE : A**



**TYPE : A1**



**TYPE : A2**

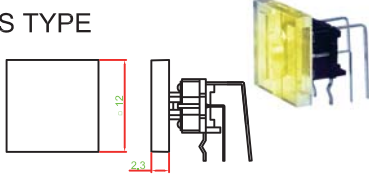
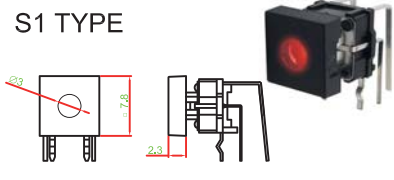
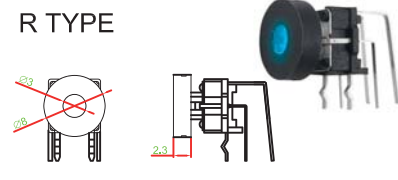
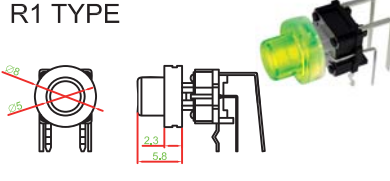
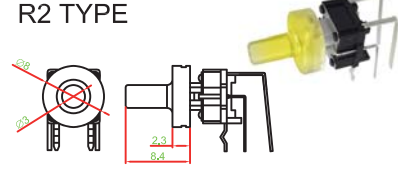
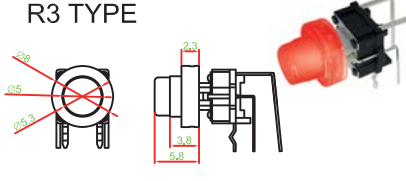
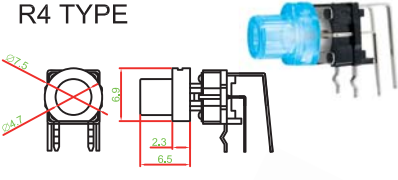
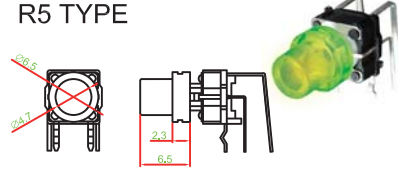
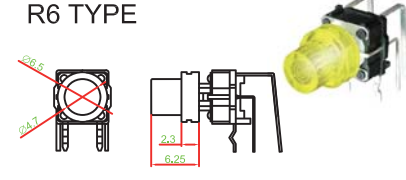
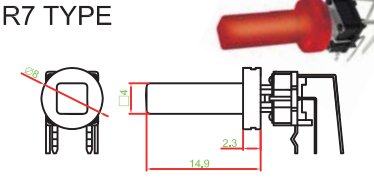
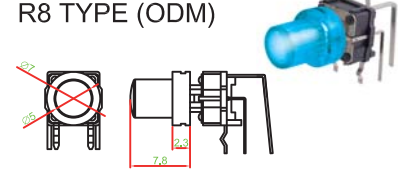
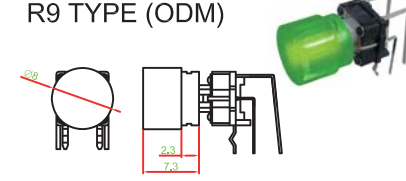
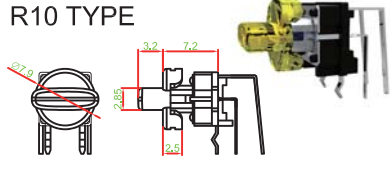


**TYPE : B**

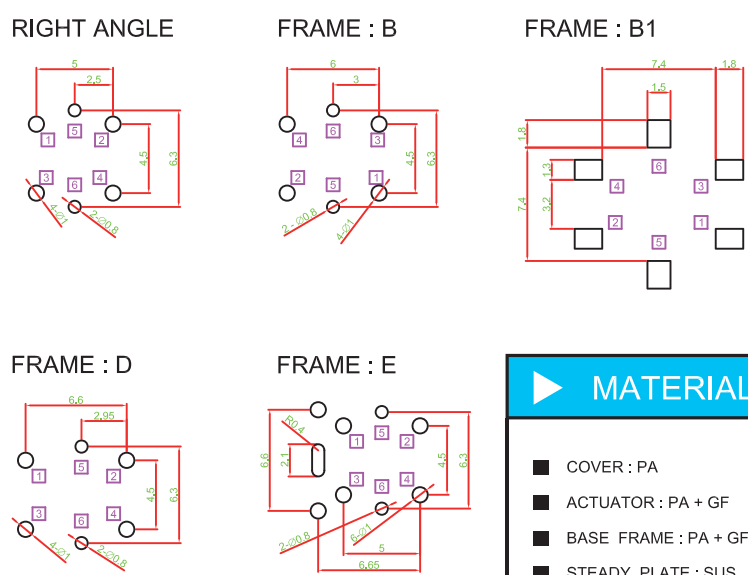
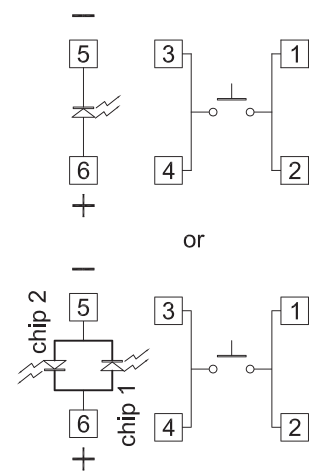


WITH CAP

▶ **KNOB TYPE OPTION**

<p><b>S TYPE</b></p> 	<p><b>S1 TYPE</b></p> 	<p><b>R TYPE</b></p> 
<p><b>R1 TYPE</b></p> 	<p><b>R2 TYPE</b></p> 	<p><b>R3 TYPE</b></p> 
<p><b>R4 TYPE</b></p> 	<p><b>R5 TYPE</b></p> 	<p><b>R6 TYPE</b></p> 
<p><b>R7 TYPE</b></p> 	<p><b>R8 TYPE (ODM)</b></p> 	<p><b>R9 TYPE (ODM)</b></p> 
<p><b>R10 TYPE</b></p> 	<p>▶ <b>P.C.B LAYOUT</b></p>	

▶ **CIRCUIT**



▶ **MATERIAL**

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

# 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	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	DC	AC			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	+	-	×		=								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	M/F	CALL	.	BAND	SETUP	MODE	LINK	FUNC.												
Y	SHIFT					DEL																
Z			T	RUN	2D	3D	CH1	CH2	CH3	CH4												