


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

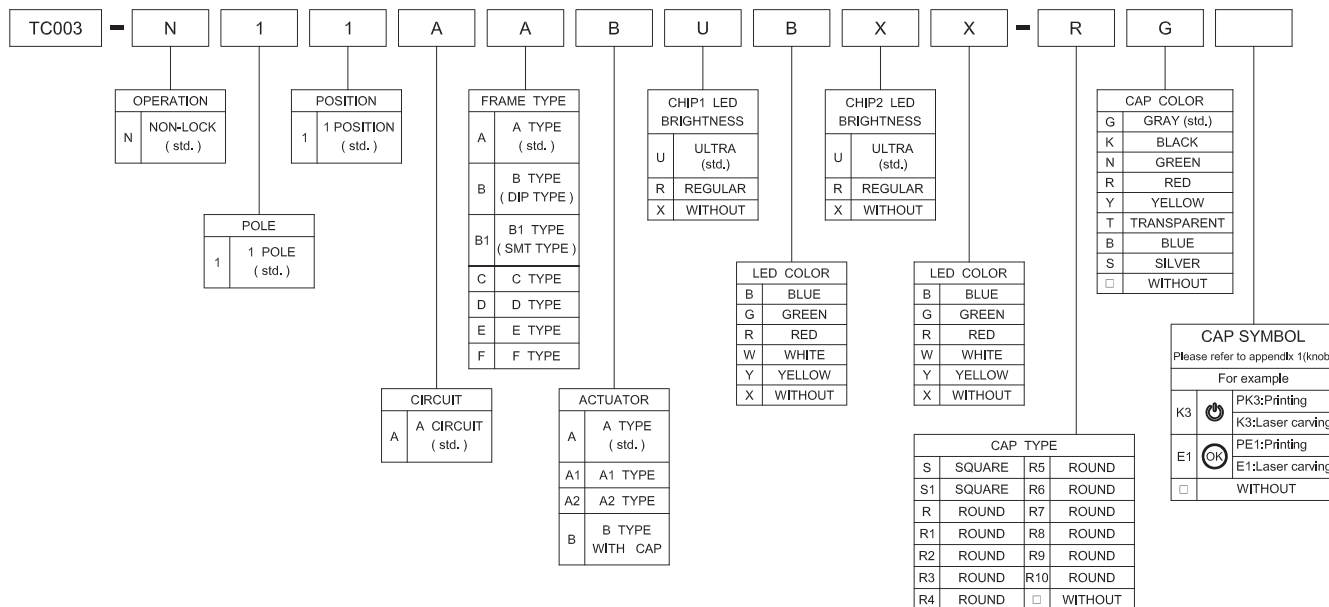
SPECIFICATIONS

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		Value / LED Color				
		Unit	Blue	Green	Red	White
 ATTENTION 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
LUMINOUS INTENSITY	Iv	mcd	@ 10mA 200	800	1800	@ 2mA 12

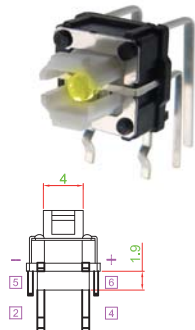
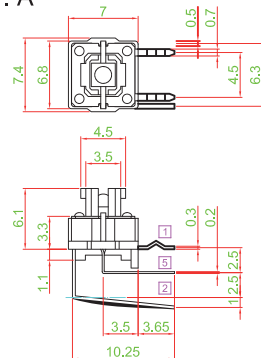
Physical and electrical information of LED will be provided upon customer's request on switches.

HOW TO ORDER

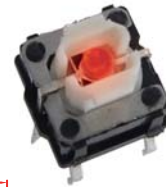
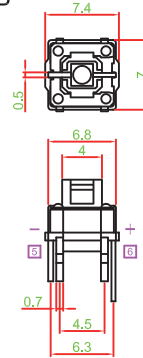


► **FRAME TYPE OPTION**

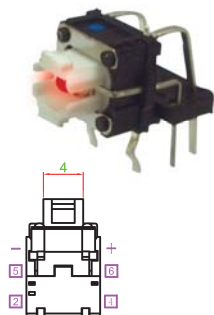
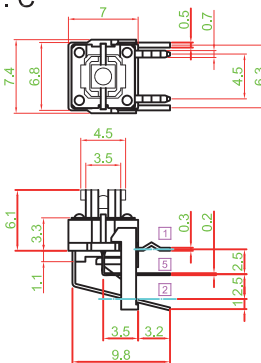
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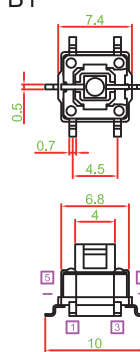
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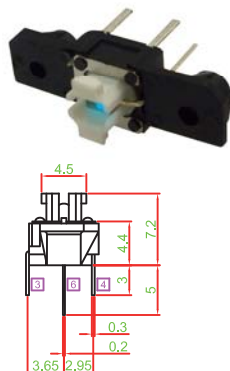
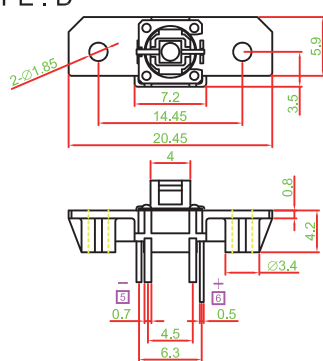
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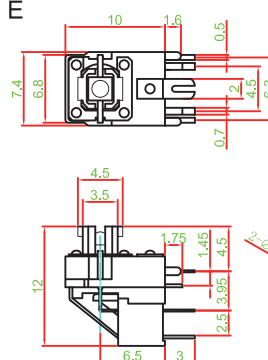
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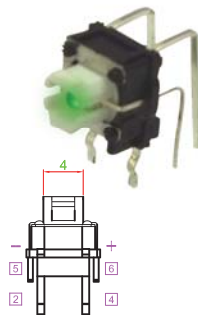
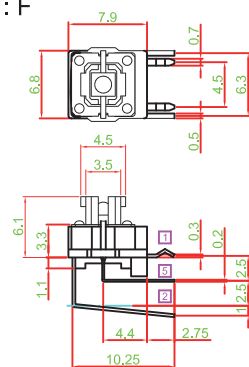
TYPE : D



TYPE : E

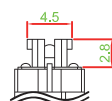


TYPE : F

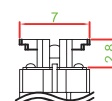


► **ACTUATOR TYPE OPTION**

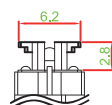
TYPE : A



TYPE : A1



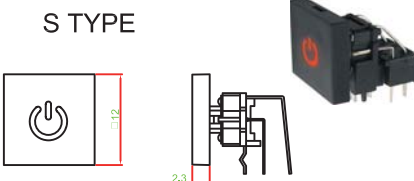
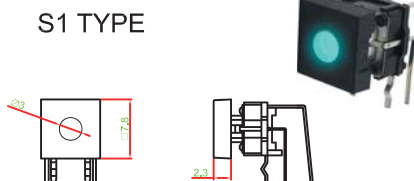
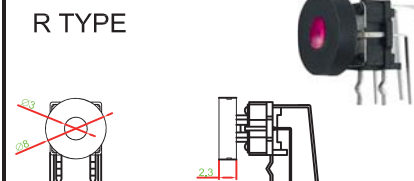
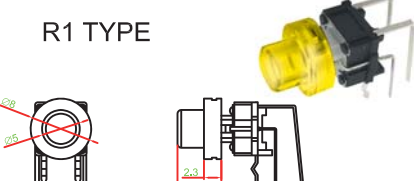
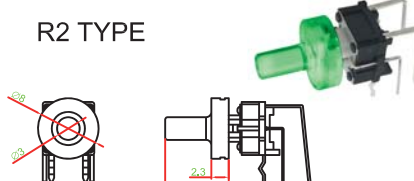
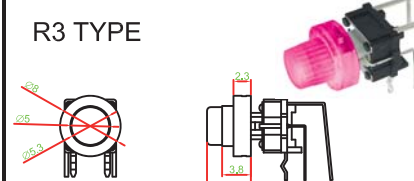
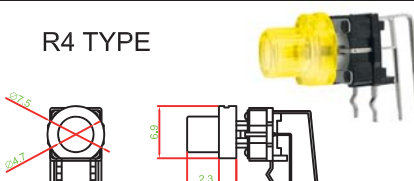
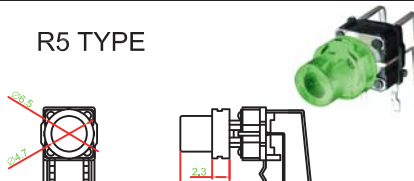
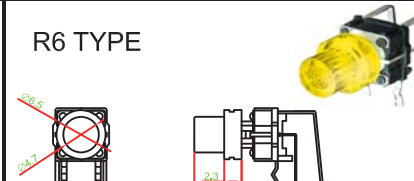
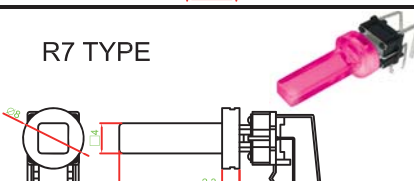
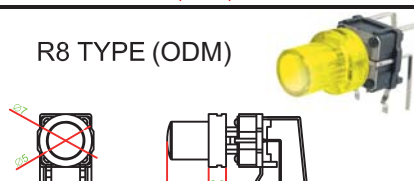
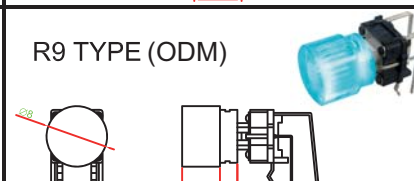
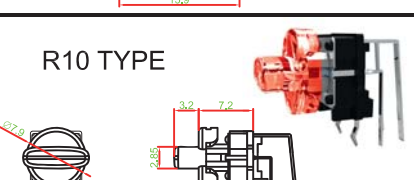
TYPE : A2



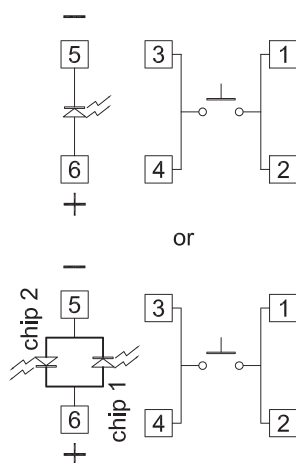
TYPE : B



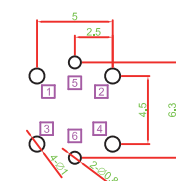
▶ KNOB TYPE OPTION

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	

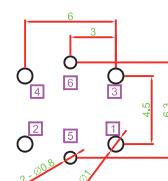
▶ SCHEMATIC



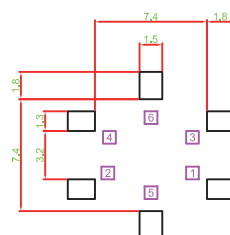
RIGHT ANGLE



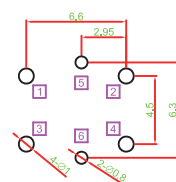
FRAME : B



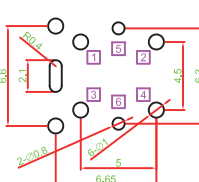
FRAME : B1



FRAME : D



FRAME : E



▶ MATERIAL

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

	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	PROG
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			group																	
U			chair																	
V			OC			CLEAR	CROSS WIND	AMMO TEMP	BARO PRESS	AIR TEMP										
W	BORE-SIGHT	CANT	LEAD	RANGE	MRS	ZERO	TEST	UD	LR											
X	ID	Disp	MF	GALL		BAND	SETUP	MODE	LINK	FUNC.										
Y	SHIFT					DEL														
Z				RUN	2D	3D	CH1	CH2	CH3	CH4										