WB®

TC003 SERIES
LED TACT SWITCH

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

TC003 - N 1 1 A A B U B X X - R G

OPERATION
N	NON-LOCK (std.)

POLE
1	1 POLE (std.)

POSITION
1	1 POSITION (std.)

CIRCUIT
A	A CIRCUIT (std.)

FRAME TYPE
A	A TYPE (std.)
B	B TYPE (DIP TYPE)
B1	B1 TYPE (SMT TYPE)
C	C TYPE
D	D TYPE
E	E TYPE
F	F TYPE

ACTUATOR
A	A TYPE (std.)
A1	A1 TYPE
A2	A2 TYPE
B	B TYPE WITH CAP

CHIP1 LED BRIGHTNESS
U	ULTRA (std.)
R	REGULAR
X	WITHOUT

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

CHIP2 LED BRIGHTNESS
U	ULTRA (std.)
R	REGULAR
X	WITHOUT

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

CAP TYPE
S	SQUARE	R5	ROUND
S1	SQUARE	R6	ROUND
R	ROUND	R7	ROUND
R1	ROUND	R8	ROUND
R2	ROUND	R9	ROUND
R3	ROUND	R10	ROUND
R4	ROUND	□	WITHOUT

CAP COLOR
G	GRAY (std.)
K	BLACK
N	GREEN
R	RED
Y	YELLOW
T	TRANSPARENT
B	BLUE
S	SILVER
□	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

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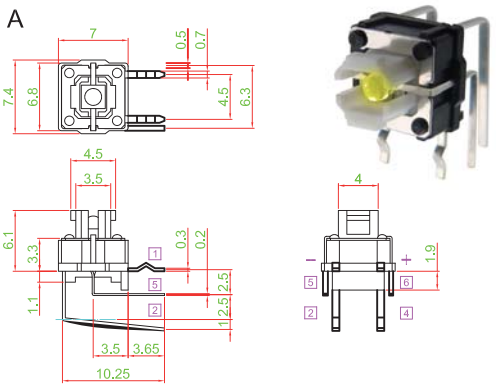
FRAME TYPE OPTION

TYPE : A



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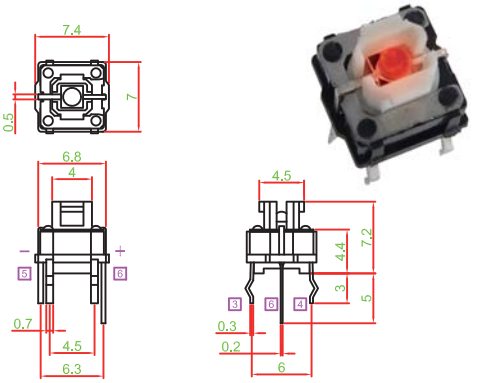
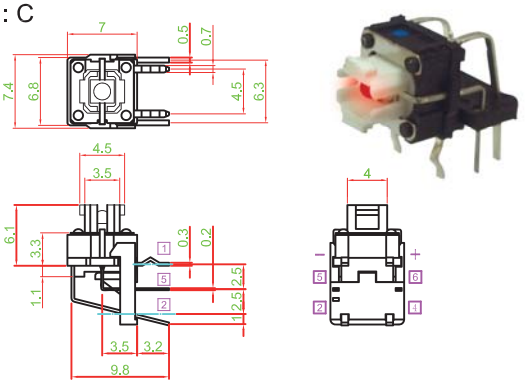


TYPE : C



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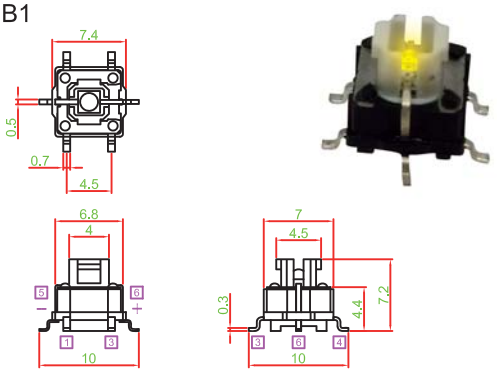

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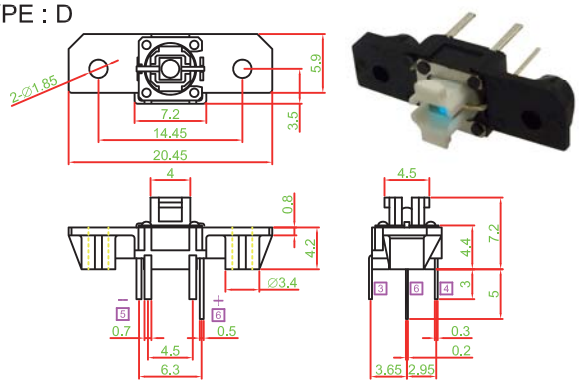
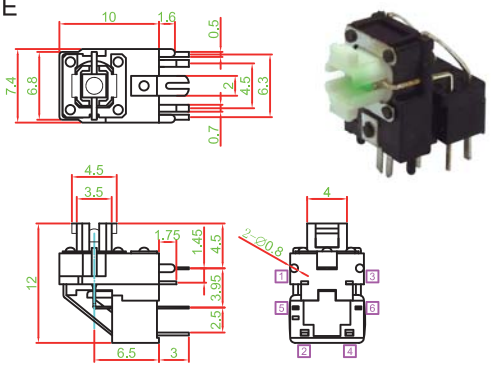
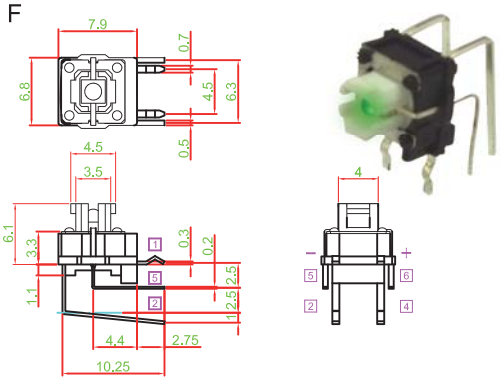


TYPE : E

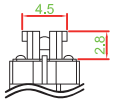


TYPE : F



ACTUATOR TYPE OPTION

TYPE : A



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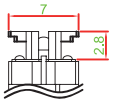

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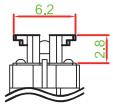

TYPE : B

WITH CAP

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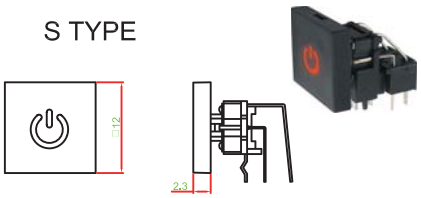
KNOB TYPE OPTION

S TYPE



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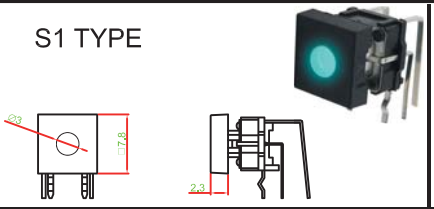
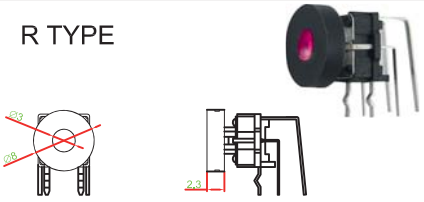
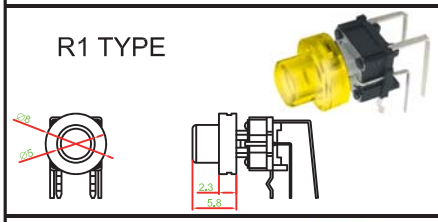


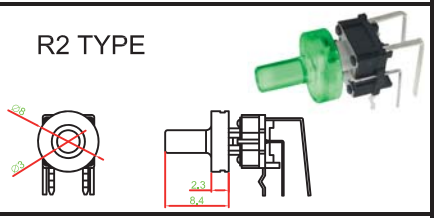
R TYPE



R1 TYPE



R2 TYPE



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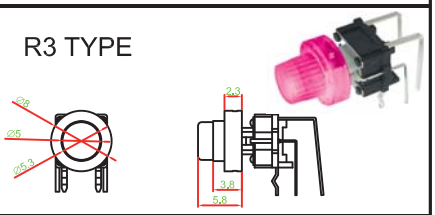

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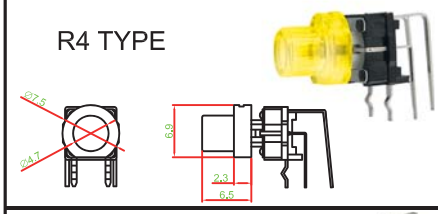

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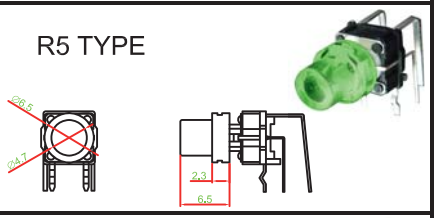

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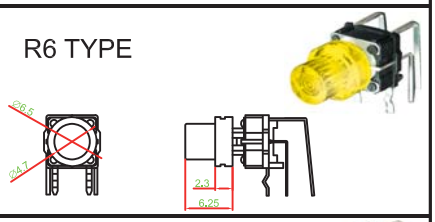

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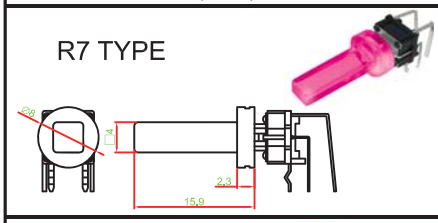

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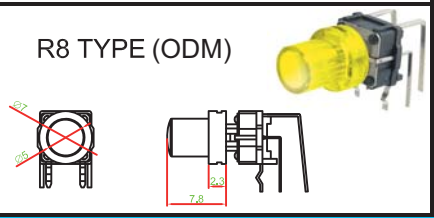

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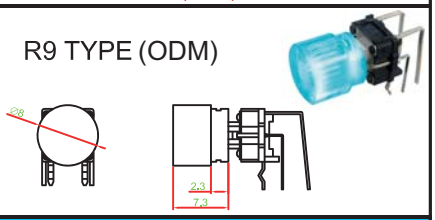
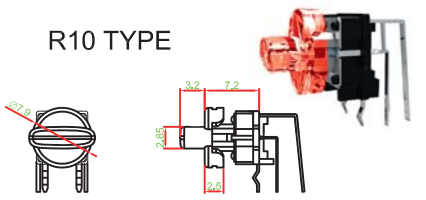
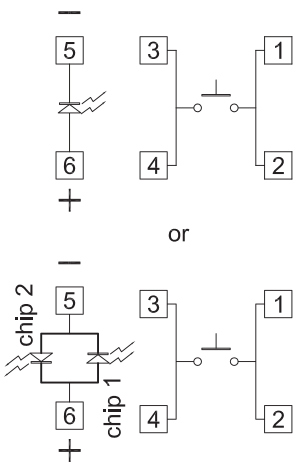


R10 TYPE

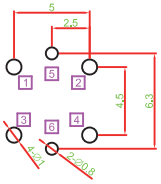


SCHEMATIC



P.C.B LAYOUT

RIGHT ANGLE



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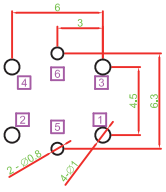
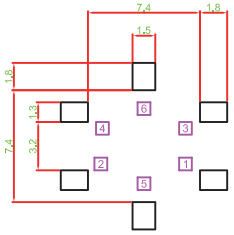


FRAME : B1



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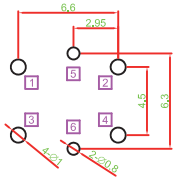

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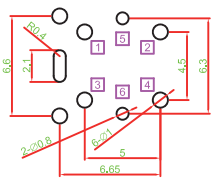
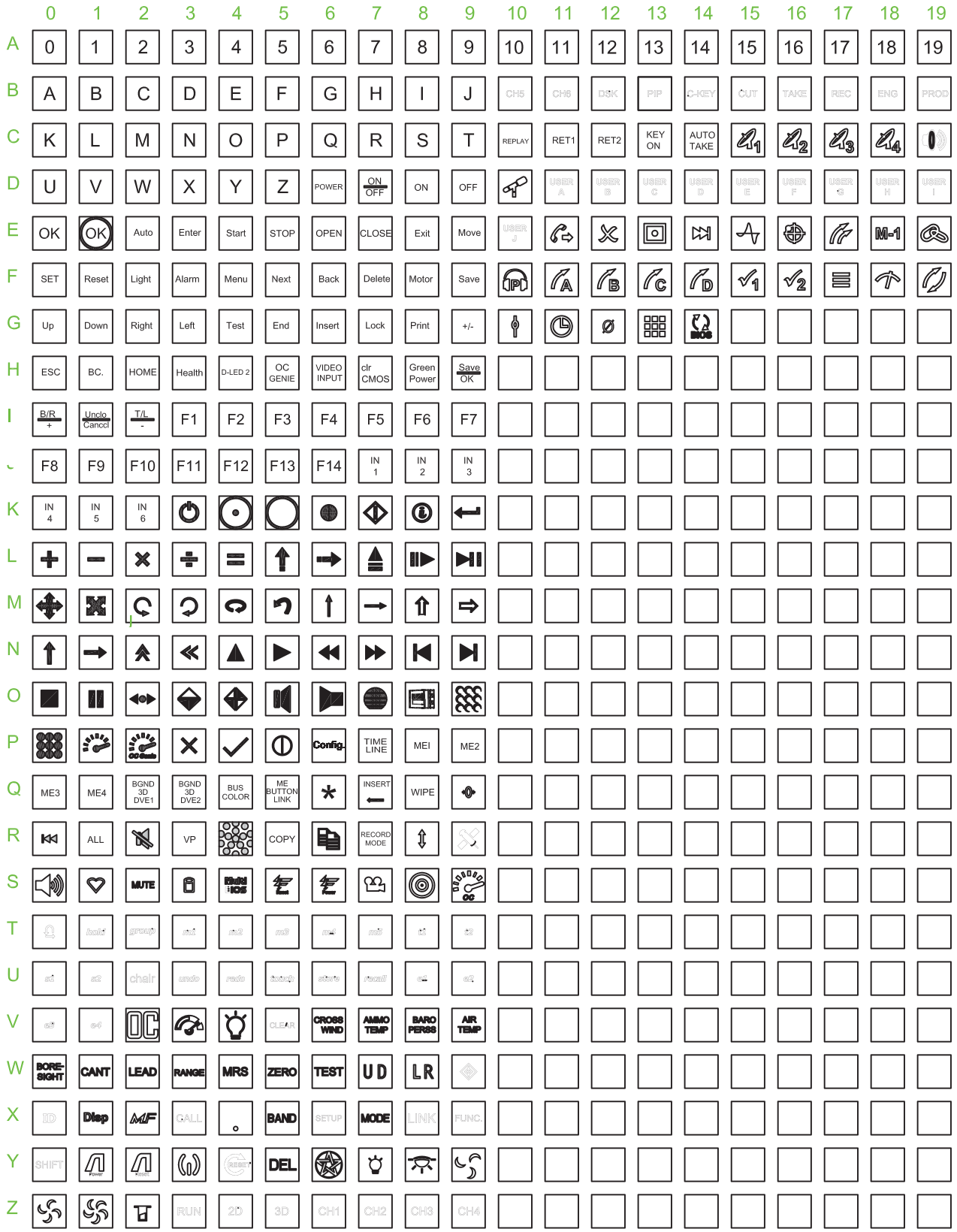


MATERIAL

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

WB®

CAP SYMBOL



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