TC013 SERIES
LED TACT SWITCH

Feature -

- small size
- bi-color LED illuminated available
- long electrical life cycles

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	180 ± 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

TC013	N	1	1	A	S	K	S	K3	U	R	X	X

POLE

1	1 POLE (std.)

TERMINAL

A	P.C.B TYPE (std.)

OPERATION

N	NON-LOCK (std.)

POSITION

1	1 POSITION (std.)

FRAME TYPE

S	SQUARE	R1	ROUND
S1	SQUARE	R2	ROUND
S2	SQUARE	R3	ROUND
S2A	SQUARE	R4	ROUND
S3	SQUARE	R5	ROUND
S4	SQUARE	R6	ROUND
S5	SQUARE	R7	ROUND
S6	SQUARE	R8	ROUND
S7	SQUARE	X	WITHOUT CAP

HOUSING COLOR

K	BLACK (std.)
G	GRAY
X	WITHOUT

CAP COLOR

G	GRAY (std.)
K	BLACK
N	GREEN
R	RED
O	ORANGE
Y	YELLOW
B	BLUE
T	TRANSPARENT
X	WITHOUT
S	SILVER

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

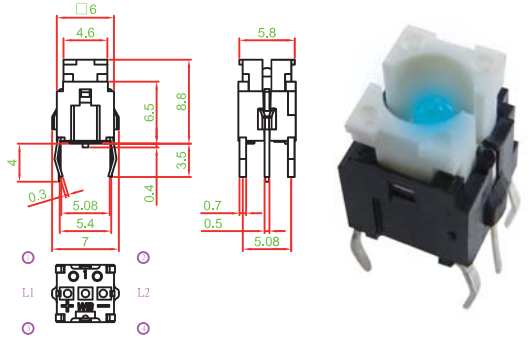
WELL BUYING INDUSTRIAL CO., LTD. Pb LEAD FREE

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

TEL : 886-2-88098288 FAX : 886-2-88098289 E-mail : wellbuyg@ms24.hinet.net http:// www.wellbuying.com.tw

FRAME TYPE OPTION

TC013-N11AXXX□□□□



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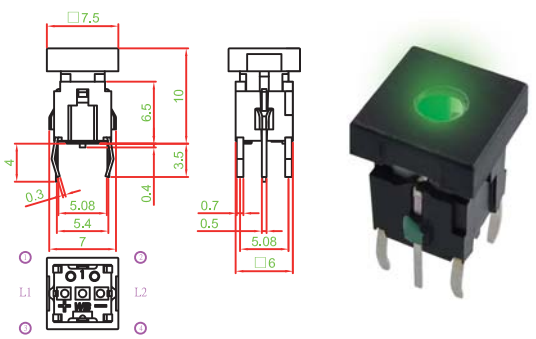

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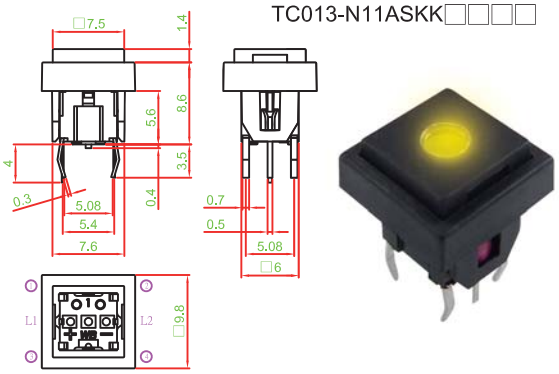

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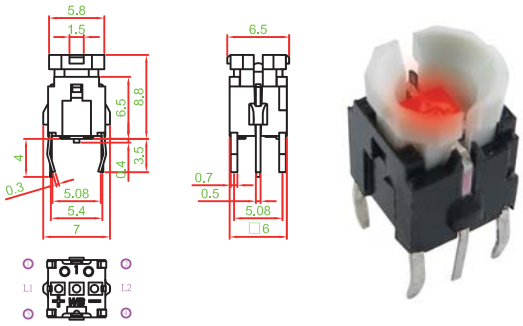

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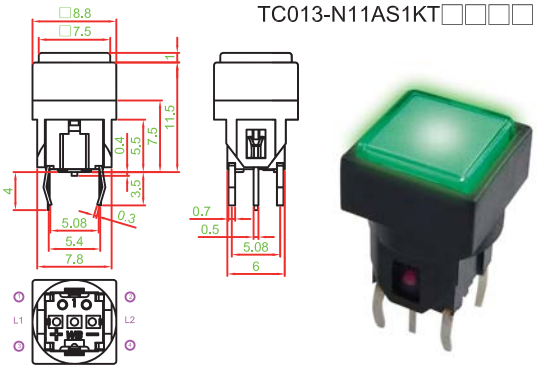

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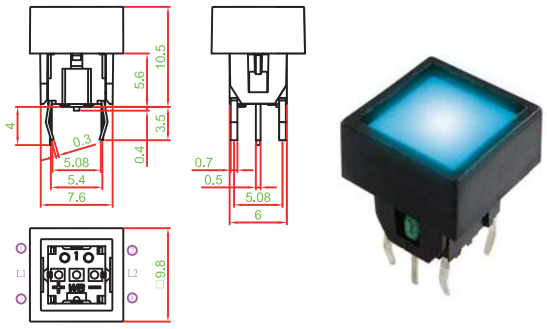

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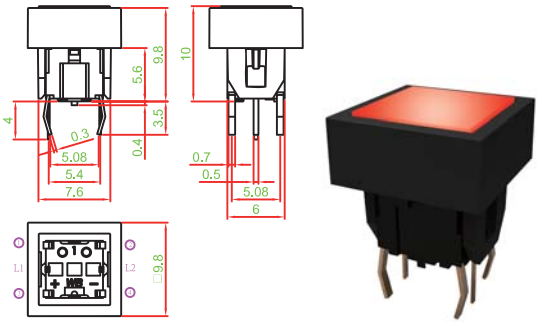

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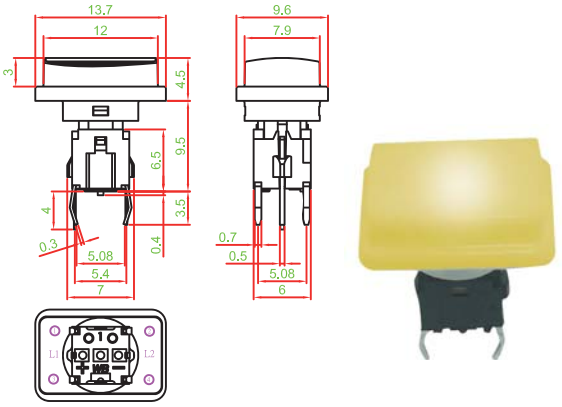

FRAME TYPE OPTION

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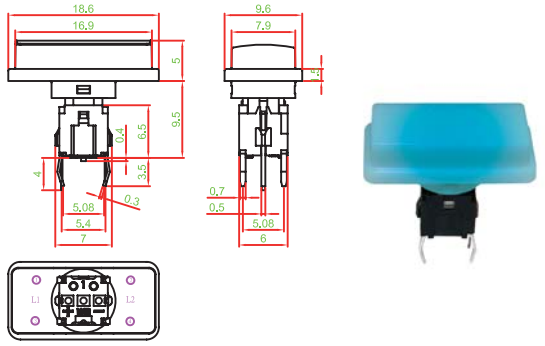

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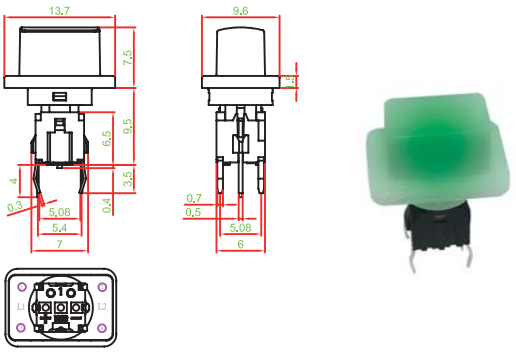

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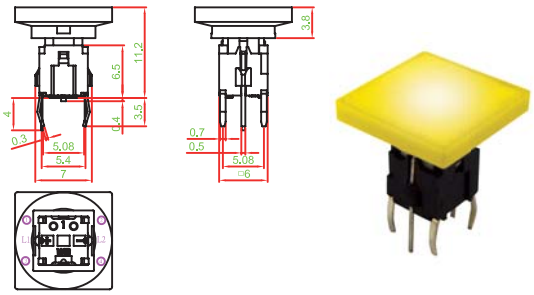

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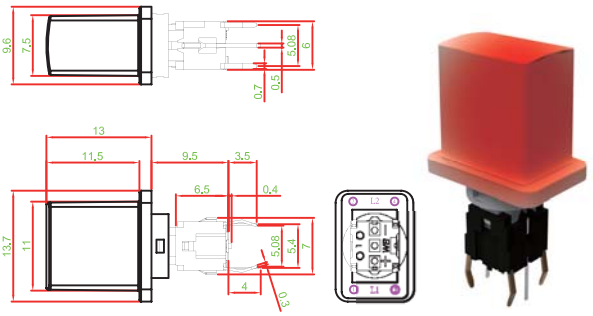

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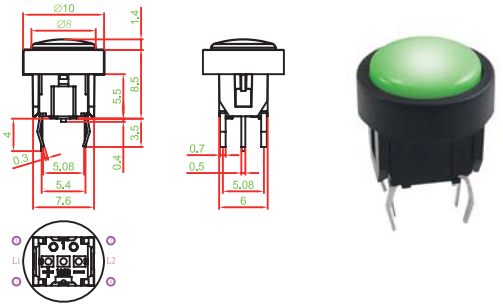

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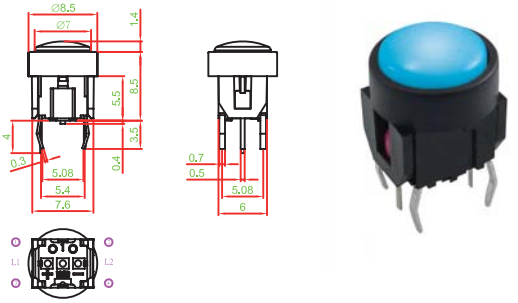

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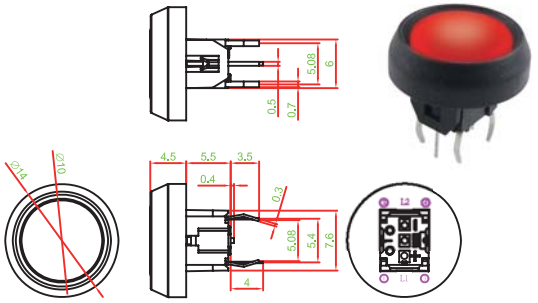

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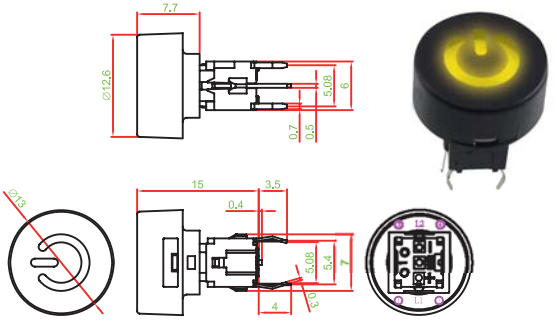

TEL : 886-2-88098288 FAX : 886-2-88098289 E-mail : wellbuyg@ms24.hinet.net http:// www.wellbuying.com.tw

FRAME TYPE OPTION

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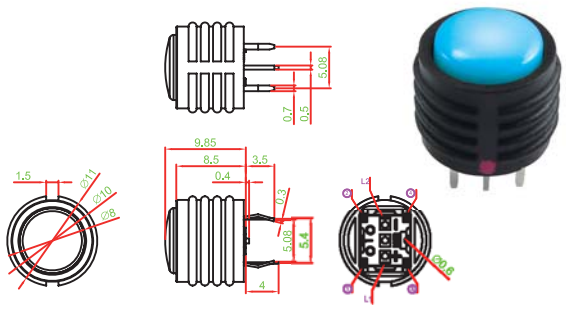

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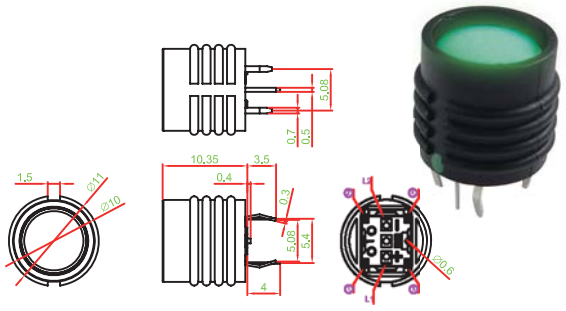

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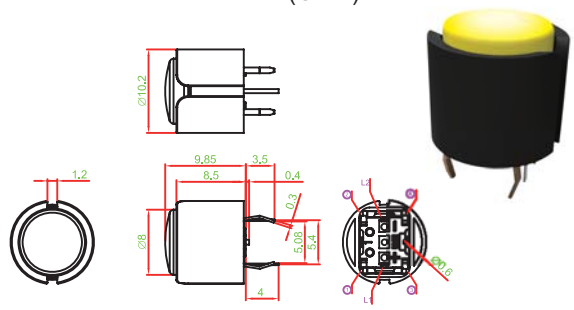

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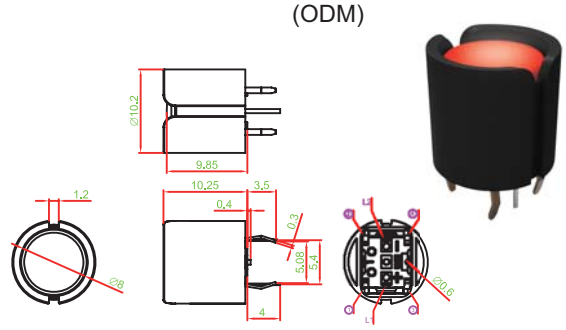
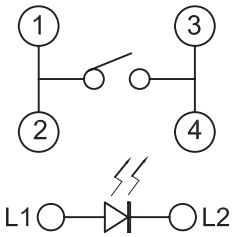
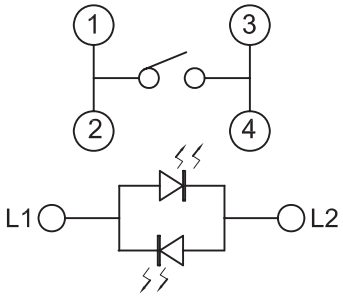


CIRCUIT

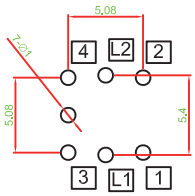
LED :
SINGLE
COLOR



LED :
TWO
COLOR

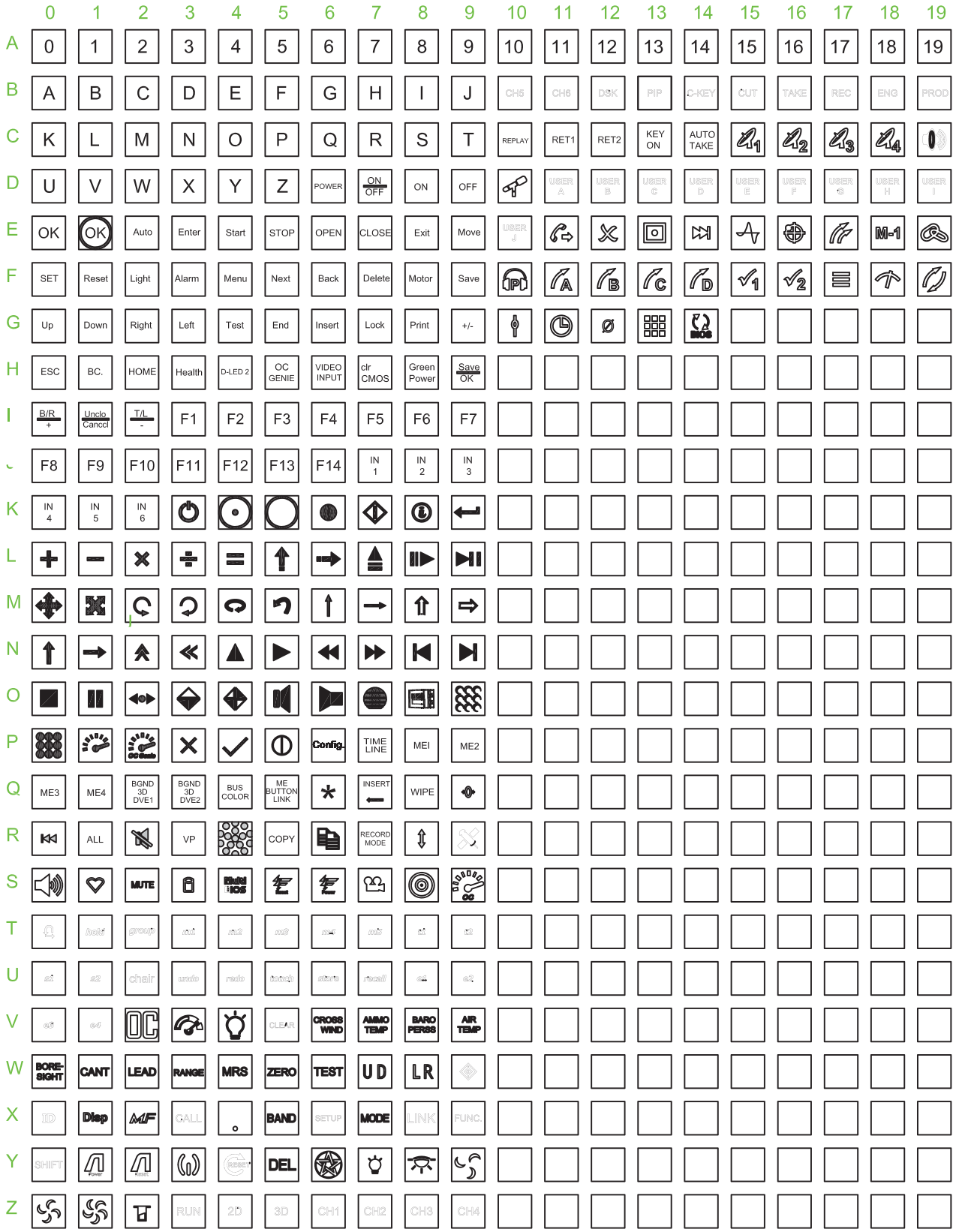


P.C.B LAYOUT



MATERIAL

- COVER : PA
- ACTUATOR : PA + GF
- BASE FRAME : PA + GF
- TERMINAL : BRASS SILVER PLATING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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 D-KEY CUT TAKE REC ENG PROD
C K L M N O P Q R S T REPLAY RET1 RET2 KEY ON AUTO TAKE M-1
D U V W X Y Z POWER ON OFF ON OFF
E OK OK Auto Enter Start STOP OPEN CLOSE Exit Move M-1
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 + Uncle 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
M
N
O
P 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
T
U chair
V CROSS WIND AMMO TEMP BARO PERSS AIR TEMP
W BORE-SIGHT CANT LEAD RANGE MRS ZERO TEST U D L R
X ID Disp MF CALL BAND SETUP MODE LINK FUNC.
Y SHIFT DEL
Z RUN 2D 3D CH1 CH2 CH3 CH4