L SERIES
LED PUSH BUTTON SWITCH

Feature -

good actuation feeling
full color LED illuminated available
long electrical life cycles
SPDT or DPDT, lock / non-lock function

Application -

instrumentation
communication equipments

▶ SPECIFICATIONS

SWITCH SPECIFICATIONS	
POLE - POSITION	ON - < ON > for Momentary Type , ON - ON for Self - Lock Type SPDT , DPDT
CONTACT RATING	SEE CONTACT MATERIAL
CONTACT RESISTANCE	50 mΩ MAX. (SILVER CONTACT) ; 100 mΩ MAX. (GOLD PLATING CONTACT) , 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 ; 1000 V AC for 1 Minute
OPERATING FORCE	200 ± 100 gf (SPDT) 300 ± 150 gf (DPDT)
OPERATING LIFE	200,000 cycles (SILVER CONTACT) 200,000 cycles (GOLD PLATING CONTACT)
OPERATING TEMPERATURE RANGE	-20°C ~ 70°C
TOTAL TRAVEL	2.2 ± 0.2 mm

LED SPECIFICATIONS						
ATTENTION (+) (-) LEDs are Electrostatic Sensitive devices		Unit	Value / LED Color			
			Red	Yellow	Green	Blue
FORWARD CURRENT	If	mA	20	20	20	20
REVERSE VOLTAGE	Vr	V	5.0	5.0	5.0	5.0
REVERSE CURRENT	Ir	μA	10	10	10	10
FORWARD VOLTAGE@20mA	Vf	V	1.7-2.2	1.7-2.2	1.8-2.4	2.7-3.7
LUMINOUS INTENSITY@20mA	Iv	mcd	230	230	410	585

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

▶ HOW TO ORDER

L	-	MH	1	P	N	R	3	R	3	Q	-			

POLE

1	1 POLE (std.)
2	2 POLE

OPERATION

N	NON - LOCK (std.)
L	LOCK TYPE (MH , ML , MHB , E TYPE)

CHIP QTY.

3	3 CHIPS
2	2 CHIPS
1	1 CHIP
X	WITHOUT
-	WHEN RGB

CHIP QTY.

3	3 CHIPS
2	2 CHIPS
1	1 CHIP
X	WITHOUT
□	WHEN RGB

DIFFUSER PLATE COLOR

□	WHITE (std.)
R	RED
G	GRAY
B	BLUE
Y	YELLOW
N	GREEN
W	WHITE (When Indicate the cap color)

CAP COLOR

□	TRANSPARENT(std.)
R	RED
G	GRAY
B	BLUE
Y	YELLOW
N	GREEN
T	TRANSPARENT (When Indicate the diffuser color)
S	SILVER

TERMINAL

P	P.C.B TYPE (std.)
W	WIRE TYPE

L1 chip — LED COLOR

B	BLUE
G	GREEN
R	RED
Y	YELLOW
X	WITHOUT
-RGB	FULL COLOR

L2 chip — LED COLOR

B	BLUE
G	GREEN
R	RED
Y	YELLOW
X	WITHOUT
□	WHEN RGB

FRAME TYPE

MH	MH TYPE	MHC	PROTECTIVE GUARD	MHCM	MANUAL PROTECTIVE GUARD
ML	ML TYPE	MLC	PROTECTIVE GUARD	MLCM	MANUAL PROTECTIVE GUARD
S	S TYPE	SC	PROTECTIVE GUARD	SCM	MANUAL PROTECTIVE GUARD
E	E TYPE	EC	PROTECTIVE GUARD	ECM	MANUAL PROTECTIVE GUARD
B	B TYPE	F	F TYPE	MHB	MHB TYPE

CONTACT MATERIAL

Q	MOVING CONTACTS : COPPER GOLD PALTING TERMINALS : SILVER PLATED . FIXED CONTACTS : BRASS , SILVER PLATED . RATING : 25 V DC , 500 mA .
R	CONTACTS & TERMINALS : COPPER , GOLD PLATED . RATING : 28 V DC , 100 mA .

CAP SYMBOL

Please refer to appendix 1(knob)

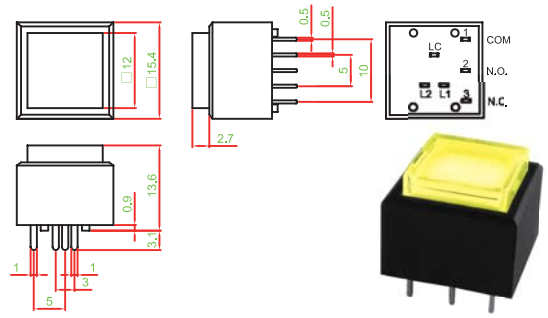
For example

K3		PK3:Printing K3:Laser carving
E1	OK	PE1:Printing E1:Laser carving
□		WITHOUT

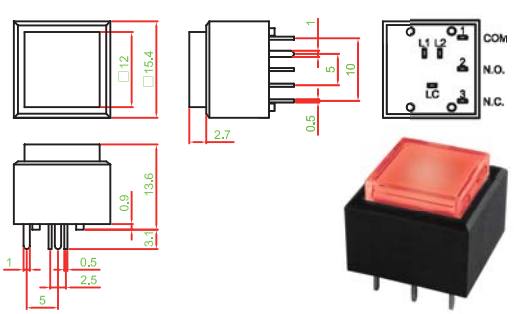
TEL : 886-2-88098288 FAX : 886-2-88098289 E-mail : wellbuyg@ms24.hinet.net http:// www.wellbuying.com.tw

▶ DIMENSION & FRAME TYPE

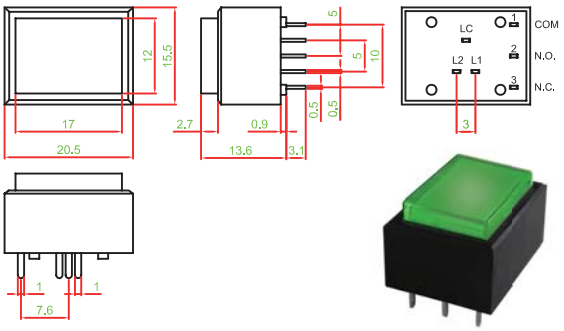
L - S1PN □□□□ Q



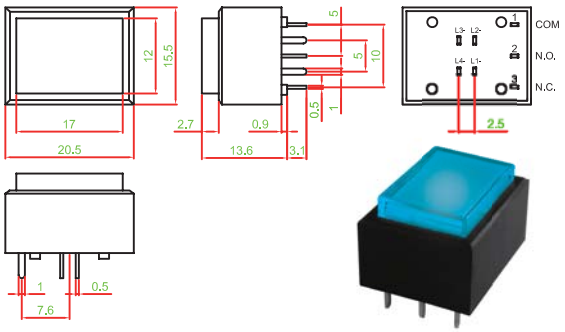
L - ML1PN □□□□ Q



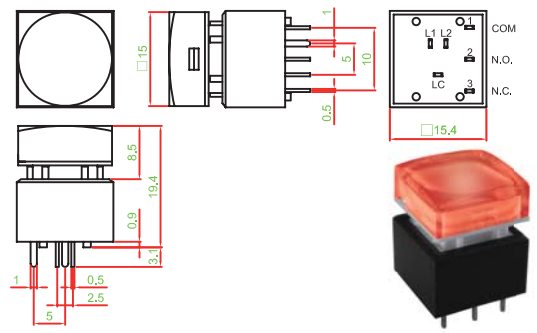
L - B1PN □□□□ Q



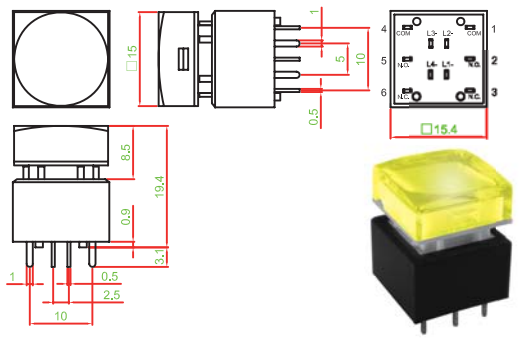
L - B1PN-RGB-Q



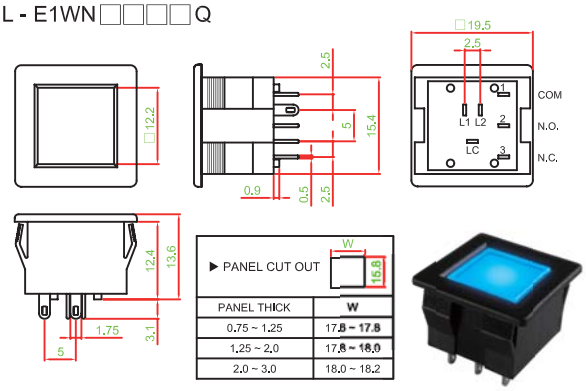
L - MH1PN□□□□Q



L - MH2PN-RGB-Q

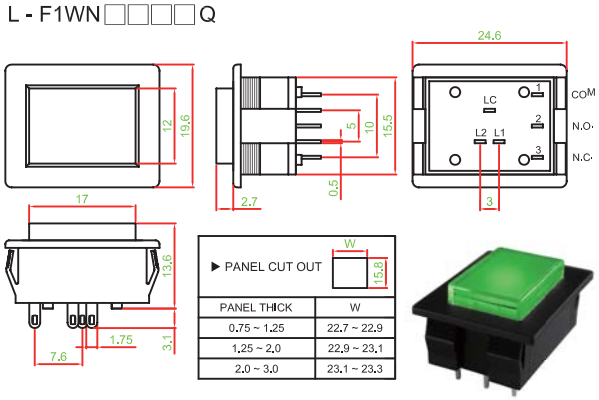


L - E1WN□□□□Q



PANEL THICK	W
0.75 ~ 1.25	17.5 ~ 17.8
1.25 ~ 2.0	17.8 ~ 18.0
2.0 ~ 3.0	18.0 ~ 18.2

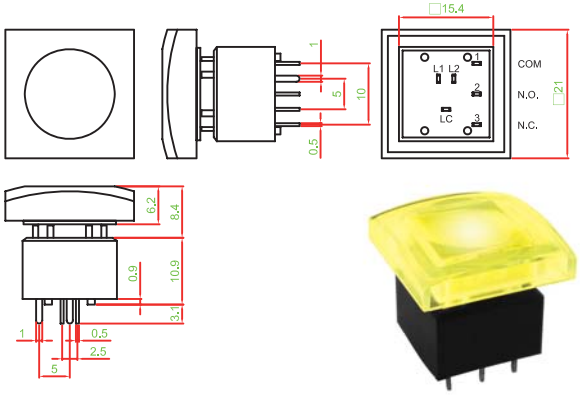
L - F1WN□□□□Q



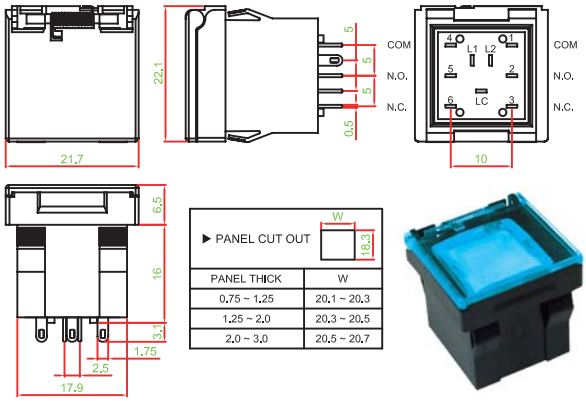
PANEL THICK	W
0.75 ~ 1.25	22.7 ~ 22.9
1.25 ~ 2.0	22.9 ~ 23.1
2.0 ~ 3.0	23.1 ~ 23.3

DIMENSION & FRAME TYPE

L - MHB1PN□□□□Q



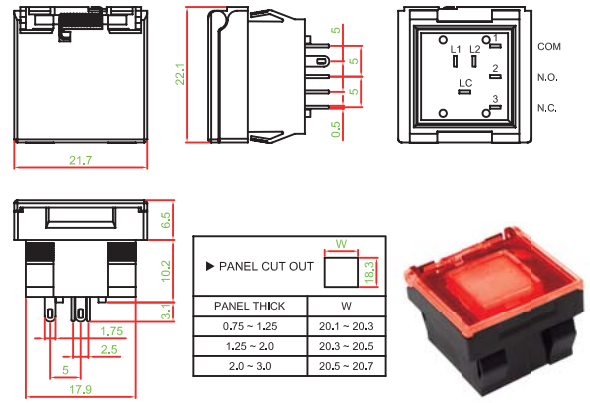
L - MHC2WN□□□□Q



▶ PANEL CUT OUT

PANEL THICK	W
0.75 ~ 1.25	20.1 ~ 20.3
1.25 ~ 2.0	20.3 ~ 20.5
2.0 ~ 3.0	20.5 ~ 20.7

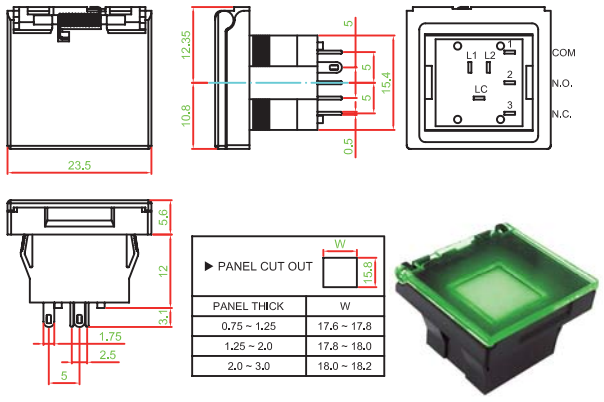
L - MLC1WN□□□□Q



▶ PANEL CUT OUT

PANEL THICK	W
0.75 ~ 1.25	20.1 ~ 20.3
1.25 ~ 2.0	20.3 ~ 20.5
2.0 ~ 3.0	20.5 ~ 20.7

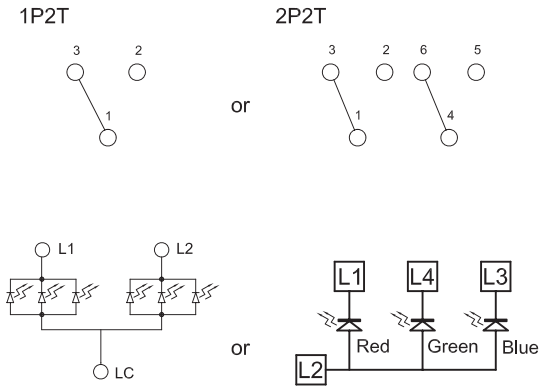
L - EC1WN□□□□Q



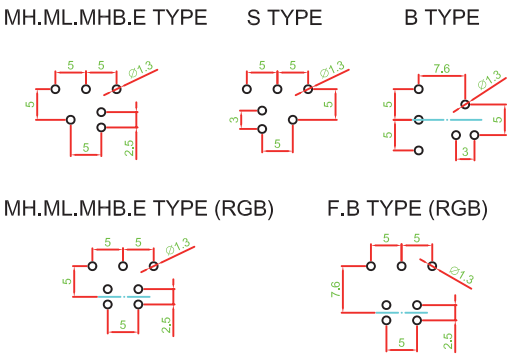
▶ PANEL CUT OUT

PANEL THICK	W
0.75 ~ 1.25	17.6 ~ 17.8
1.25 ~ 2.0	17.8 ~ 18.0
2.0 ~ 3.0	18.0 ~ 18.2

SCHEMATIC



P.C.B LAYOUT



MATERIAL

- COVER : PC
- ACTUATOR : POM
- BASE FRAME : PA + GF
- TERMINAL : Q : BRASS SILVER PLATING
  R : BRASS GOLD PLATING

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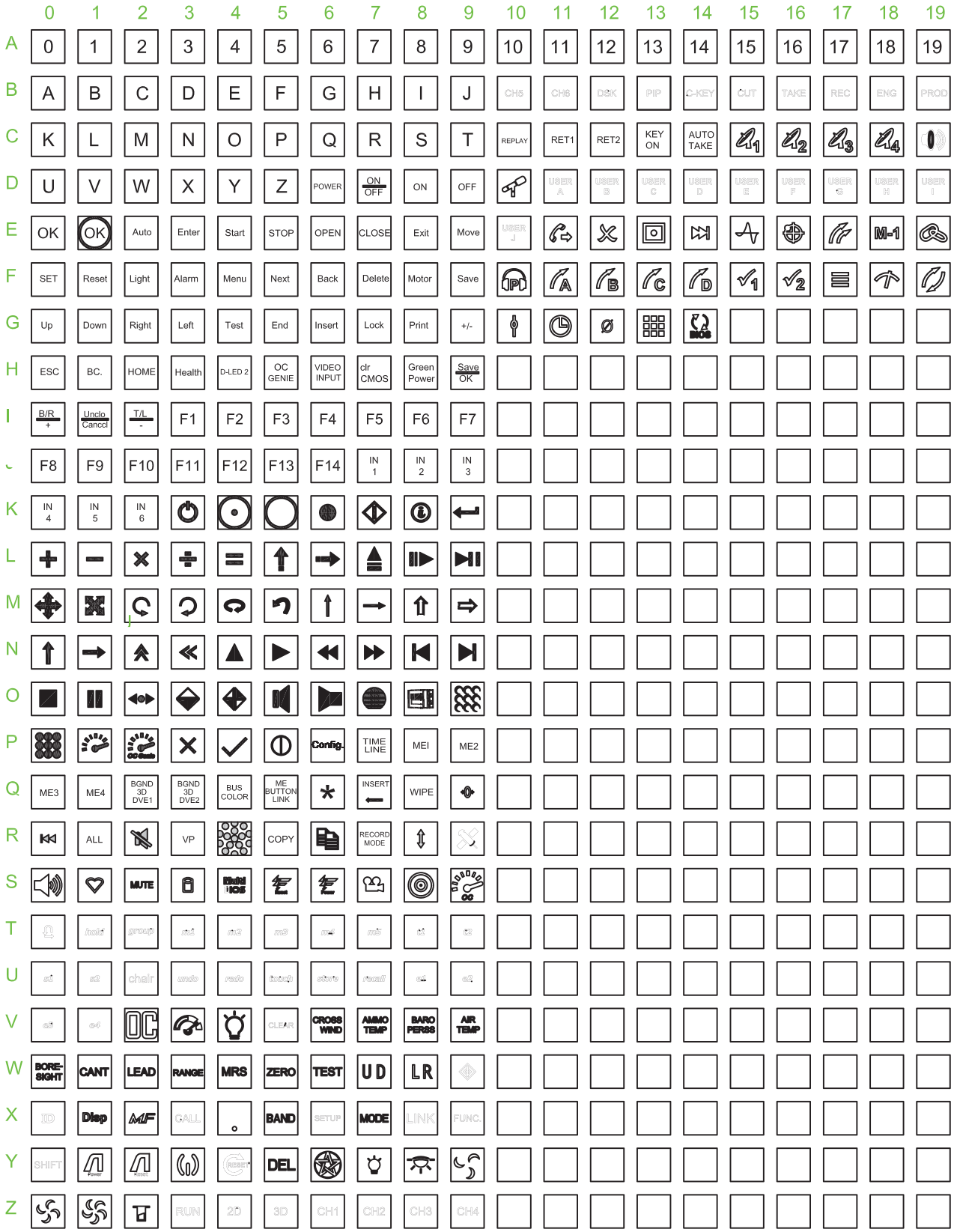
WB®

CAP SYMBOL



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L-F1PNY3Y3Q L-MHB1PLB3XXQ L-MHB1PNG3R3Q L-MHB1PLG3Y3Q L-MHB1PNR3R3Q L-MHB1PLR3R3Q L-MH2PNR3R3Q L-MH1PNB3XXQ L-MH1PNG3G3Q L-MH1PNR3R3Q L-MH1PNR3G3Q L-ML1PLR3R3Q L-ML1PLR3G3Q L-ML1PNR3G3Q L-ML1PNB3XXQ L-E1WNG3R3Q L-E1PNG3R3Q L-MHB1PNR3XXQ L-B1PNR3R3R L-S1PNY3Y3R L-S1PNPG3PG3R L-S1PNY3Y3Q L-ML1PNY3Y3R L-E1WNB1B1Q L-MH1PN-RGB-Q