



Feature -

- small size
- bi-color LED illuminated available
- long 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

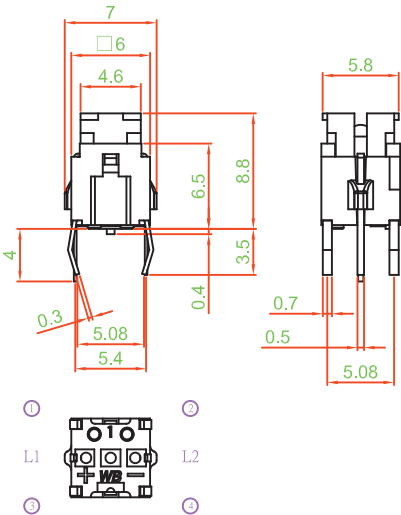
■ Physical and electrical information of LED will be provided upon customer's request on switches .

► HOW TO ORDER

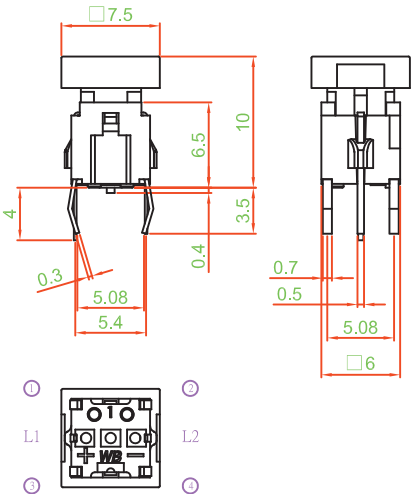
TC013	-	N	1	1	A	S	K	S	K3	U	R	X	X
		OPERATION		POSITION		FRAME TYPE		CAP COLOR		LED BRIGHTNESS		LED BRIGHTNESS	
		N NON-LOCK (std.)		1 1 POSITION (std.)		S SQUARE		G GRAY (std.)		U ULTRA (std.)		U ULTRA (std.)	
						S1 SQUARE		K BLACK		R REGULAR		R REGULAR	
						S2 SQUARE		N GREEN		X WITHOUT		X WITHOUT	
						S3 SQUARE		R RED					
						S4 SQUARE		O ORANGE					
						S5 SQUARE		Y YELLOW					
						R1 ROUND		B BLUE					
						R2 ROUND		T TRANSPARENT					
						R3 ROUND		X WITHOUT					
						R4 ROUND		S SILVER					
						R5 ROUND							
						R6 ROUND							
						X WITHOUT CAP							

► DIMENSION

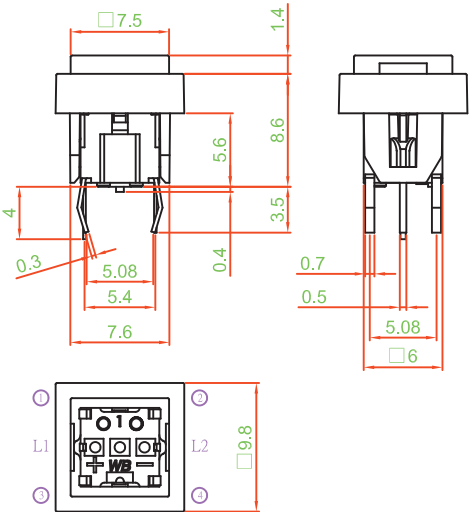
TC013-N11AXXX □ □ □ □



TC013-N11ASXK □ □ □ □

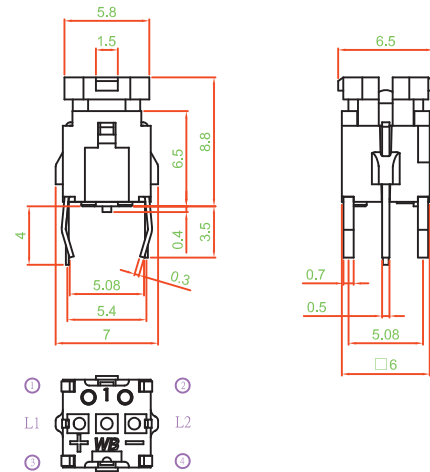


TC013-N11ASKK □ □ □ □

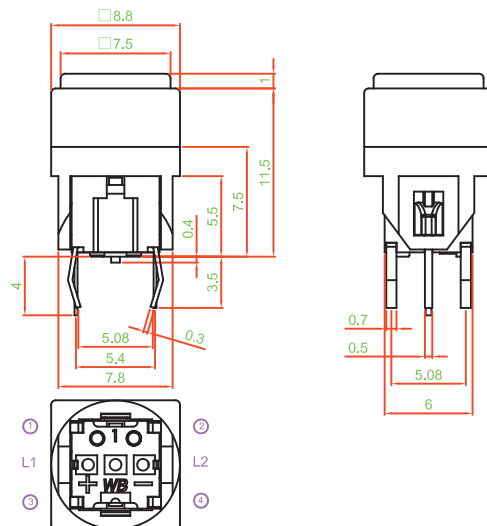


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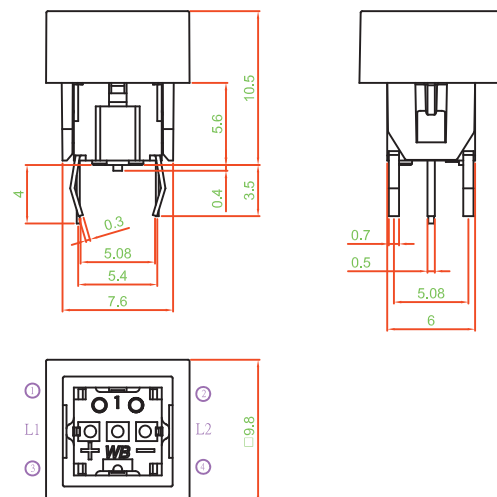
TC013-N11AS1XX □ □ □ □



TC013-N11AS1KT □ □ □ □

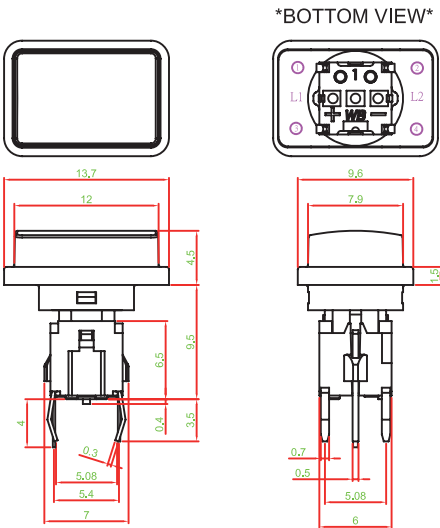


TC013-N11AS2KW □ □ □ □

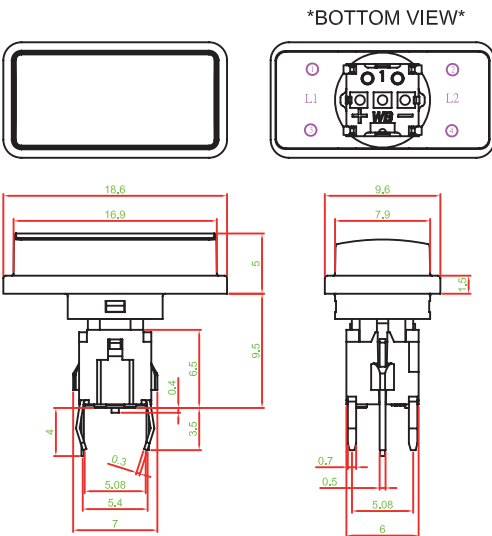


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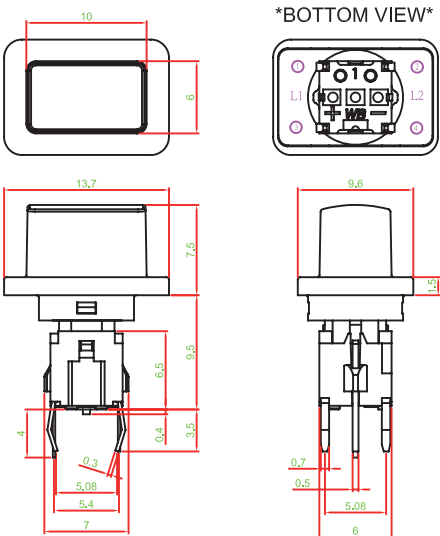
TC013-N11AS3XW □ □ □ □



TC013-N11AS4XW □ □ □ □

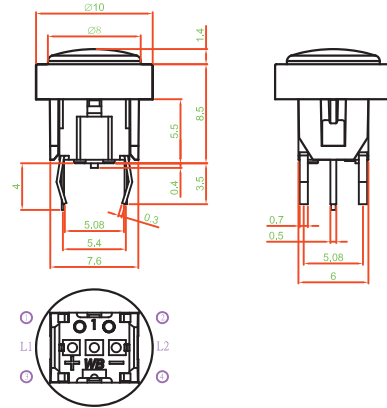


TC013-N11AS5XW □ □ □ □

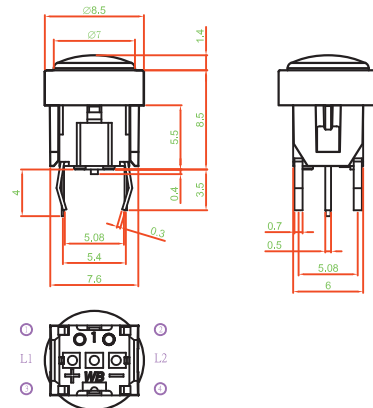


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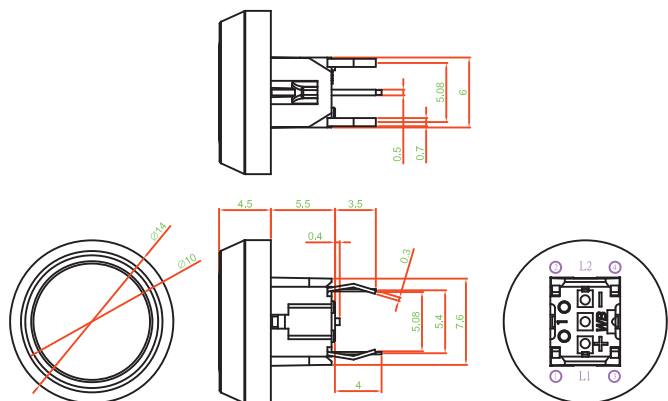
TC013-N11AR1KW □ □ □ □



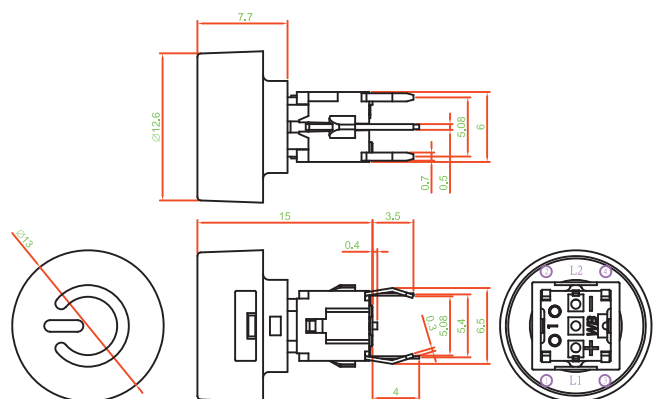
TC013-N11AR2KW □ □ □ □



TC013-N11AR3KW □ □ □ □



TC013-N11AR4XKK3 □ □ □ □

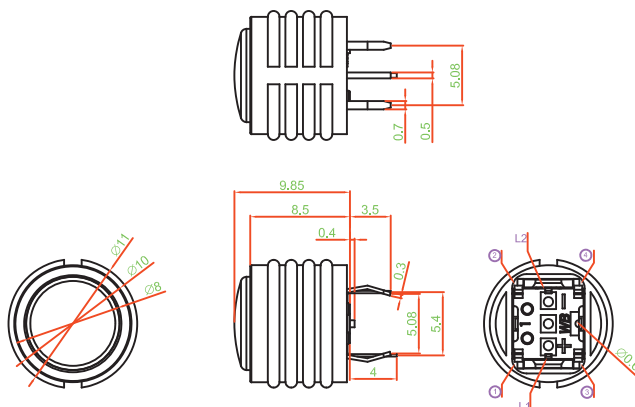


TC013 SERIES

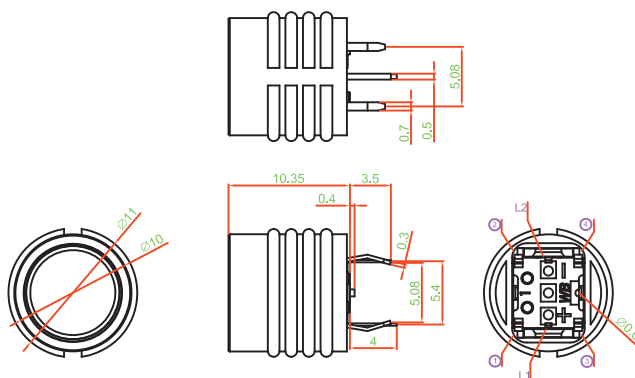
LED TACT SWITCH

DIMENSION

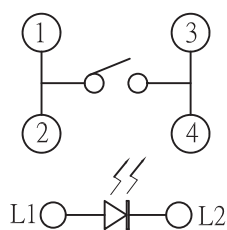
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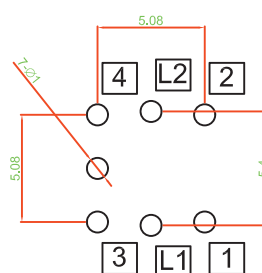
TC013-N11AR6KW □ □ □ □



CIRCUIT



P.C.B LAYOUT



MATERIAL

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

UNIT WEIGHT

- TC013-N11AXXX □ □ □ □ : 0.35 ± 0.05 g / pc
- TC013-N11ASXK □ □ □ □ : 0.45 ± 0.05 g / pc
- TC013-N11ASKK □ □ □ □ : 0.65 ± 0.05 g / pc
- TC013-N11AS1XX □ □ □ □ : 0.50 ± 0.05 g / pc
- TC013-N11AS1KT □ □ □ □ : 0.72 ± 0.05 g / pc
- TC013-N11AS3XK □ □ □ □ : 0.70 ± 0.05 g / pc
- TC013-N11AS4XK □ □ □ □ : 0.95 ± 0.05 g / pc

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										
B	A	B	C	D	E	F	G	H	I	J										
C	K	L	M	N	O	P	Q	R	S	T										
D	U	V	W	X	Y	Z	POWER	ON OFF	ON	OFF										
E	OK		Auto	Enter	Start	STOP	OPEN	CLOSE	Exit	Move										
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				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							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																				
T																				
U																				
V						CLEAR	CROSS WIND	AMMO TEMP	BARO PRESS	AIR TEMP										
W	BORE- SIGHT	CANT	LEAD	RANGE	MRS	ZERO	TEST	UD	LR											
X	ID	Disp																		
Y																				
Z																				