

**BILL OF MATERIAL ( B O M ) for WLSMCL-01**

Item	Part reference	Material / Specification	Quantity	U / M	option	Position	supplier	Note
<b>Main Board</b>								
1	PCB	FR4 D/S Size=119x98x1.6mm Rondish Co Ltd. WL LJJ Date:22 OCT 2012Rev:05	1.000000			PCB		
2	IC	IC PIC16F723A SOP-28 (Consigned by Rondish)	1.00			U1		
3	IC	IC 24LC02B SOP-8 ROHS	1.00			U5		
4	IC	IC HT7833 SOT-89 RoHS	1.000000			U9		
5	IC	IC LM1117MPX-ADJ · SOT-223	1.00			U6		
6	Chip Resistor	Resistors 100 OHM 0805 +/-5%ROHS	2			R49,R51		
7	Chip Resistor	Resistors 220 OHM 0805 +/-5%ROHS	1			R32		
8	Chip Resistor	Resistors 1K 0805 +/-5%ROHS	9			R7,10,20,26,29,39,40,41,45		
9	Chip Resistor	Resistors 2K2 0805 +/-5%ROHS	1			R53		
10	Chip Resistor	Resistors 10K 0805 +/-5%ROHS	5			R5,13,14,15,23		
11	Chip Resistor	Resistors 39K 0805 +/-5%ROHS	1			R1		
12	Chip Resistor	Resistors 100K 0805 +/-5%ROHS	10			R11,12,16,21,22,24,27,30,31,52		
13	Chip Resistor	Resistors 1M 0805 +/-5%ROHS	1			R46		
14	Chip Resistor	Resistors 330 OHM 0805 +/-5%ROHS	1			R48		
15	Chip Resistor	Resistors 1K5 0805 +/-5%ROHS	1			R47		
16	Chip Resistor	Resistors 2R2 OHM 1206 +/-5%ROHS	2			R35,36,		
17	Chip Resistor	Resistors 33 OHM 1206 +/-5%ROHS	2			R25,34		
18	Chip Resistor	Resistors 220 OHM 1206 +/-5%ROHS	4			R9,17,28,33		
19	Chip CAP	Capacitors 0805 100NF/25V +-20%	10			C3,4,8,10,11,12,15,19,23,26		
20	Chip CAP	Capacitors 0805 1UF/25V +-20%	1			C27		
21	Chip CAP	TANT Capactors 1UF 16V +/-5% A-Case	1			C28		
22	Chip CAP	Capacitors 0805 30PF/25V ±5%	2			C1 · C2		
23	Transistor	Transistor NPN MMBTA42 SOT-23 ROHS	6			Q1,3,4,5,6 9		
24	Transistor	Transistor NPN MMBT9014 SOT-23 ROHS	1			Q7		
25	Diode	Diode 1N4004(M4) SMA ROHS	1			D2		
26	Diode	Diode 1N4148 LL4148 ROHS	1			D1		
27	E-CAP	E.Capacitors 1UF/16V +-20% D4*7mm	1			C6		
28	E-CAP	E.Capacitors 47UF/25V +-20% D5*8mm ROHS	1			C16		
29	E-CAP	E.Capacitors 47UF/50V +-20% D6*7mm ROHS	1			C13		
30	E-CAP	E.Capacitors 10UF/25V +-20% D5*7mm	1			C24		
31	E-CAP	E.Capacitors 47UF/16V +-20% D5*7mm ROHS	2			C21,c25		
32	Inductor	Inductor 3.3uH +/-10% DIP1/2W	1.00			L1		
33	Cryatal	CRYSTAL 4MHZ 2P,HC-49S ROHS	1.00			Y1		
34	Buzzer	Buzzer YMD-1205 5V,D12*7mm,ROHS	1.00			BUZ1		
35	Switch	H. SLIDE SWITCH SK-12D02-V3 ROHS	1.00			SW4		
36	Tact Switch	TC-0103Z-A00 6*6*5mm	1.00			SW1		
37	white Plug	4P,pitch 2.54mm	3.0			J5,J10 · J11		
38	Pin Header	2P,black,pitch 5.08mm H=12.4mm	1.00			J3		
39	Varistor	V22ZA05 Littelfuse ,DIP	1.00			MOV1		
40	Varistor	V18MLA1206 Littelfuse	1.00			Q8		

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41	Reed switch	MKA10110 8-11AT ROHS	1.00			SW2		
42	Fuse	FUSE 2920L075 Littelfuse	1.00			F1		
43	ESD	ESD PGB102ST23 Littelfuse	2			ESD1, ESD2		
44	LED	Diode LED green LT E67C-T1U2-35 PLCC-4 SMD	2.0			LED6, LED7		
45	LED	Diode LED orange LO E67B-U2AA-24-1 PLCC-4 SMD	2.0			LED4, LED5		
46	LED	Diode LED red LS E67B-S2V1-1-1 PLCC-4 SMD	2.0			LED2, LED3		
47	LED	Diode LED white LW E67C-T1V2-5K8L-1 PLCC-4 SMD	2.0			LED8, LED9		
48	LED	Diode LED BLUE 0805		1		D3		
49	Module	<b>RF4431 866MHZ (www.nicerf.com)</b>	1			U4		
50	antenna	Antenna to U4 single conductor D =1.5MM L=86MM		1		E2		
51	Screw	Screw, Cross drive, self-tapping, PA 2.6*8MM enhanced hard, Ni plated	2.0			fix top & bottom cases		
52	Screw	Screw, Cross drive, self-tapping, PB 2.6*5MM , enhanced hard	2.0			fix PCB		
53	Front cover	MCL-01 consigned	1.0					
54	Rear cover	MCL-01 consigned	1.0					
55	Bracket	white consigned	3.00					
56	LENS	transparent, consigned white PC	1.0					
57	Label	white label, 16*9mm	1					
58	QC label	14*9MM oval, QC label, ROHS	1					
59	Date code label	Date code label 16.5*8MM ROHS	1					
60	Cartoon box	43X36X41CM General cartoon mark	1.0000					
61	Card	410*340*3mm C33	2.0000					