

**Cactus Laser Trigger LV5 BOM**

Date : 2 Nov., 2012

\* Laser unit

\* Sensor unit

**SMD LEVEL**

Item	Part No.	Description	Qty (TX)	Qty (RX)	Qty (Total)	Ref (TX)	Ref (RX)
S01	BIC-00002-A00	Binary Counter, 4060, SOIC-16	1	0	1	U1	
S02	INV-00002-A00	Hex Inverter, SOIC, 14-pin	1	1	2	U4	U2
S03	GOV-00001-A00	Synchronous Boost Converter, 0.85V startup, 1MHz, 300mA Iout, SOT23-5	1	1	2	U2	U1
S04	IND-00001-A00	Chip Inductor, 33uH, 3 x3.6mm, SMD	1	1	2	L1	L1
S05	CAP-00001-A00	Chip Cap, 0.1uF, +80~20%, 16V OR ABOVE, 0603, X7R	3	5	8	C1,6-7	C1,3-4,7,18
S06	CAP-00003-A00	Chip Cap, 100pF, NPO, 16V OR ABOVE, 0603	1	2	3	C8	C10-11
S07	CAP-00004-A00	Chip Cap, 22pF, NPO, 16V OR ABOVE, 0603	2	2	4	C2-3	C9,13
S08	CAP-00002-A00	Chip Cap, 0.01uF, +80~20%, 16V OR ABOVE, 0603, X7R	0	3	3		C14-15, 16
S09	CAP-00005-A00	Chip Cap, 1uF, +80~20%, 6.3V, 0603, X5R	0	4	4		C5, 19-21
S11	RCT-00008-A00	Chip Resistor, 470R OHM, 5%, 0603	1	0	1	R6	
S12	RCT-00005-A00	Chip Resistor, 4.7K OHM, 5%, 0603	2	2	4	R7,10	R19,20
S13	RCT-00006-A00	Chip Resistor, 100K OHM, 5%, 0603	3	6	9	R2-3,8	R4-7,13,21
S14	RCT-00009-A00	Chip Resistor, 1M OHM, 5%, 0603	2	2	4	R1,5	R11,14
S15	RCT-00004-A00	Chip Resistor, 10K OHM, 5%, 0603	2	4	6	R9,11	R3,8,23,24
S16	RCT-00003-A00	Chip Resistor, 47R OHM, 5%, 0603	0	2	2		R2,R18
S17	RCT-00002-A00	Chip Resistor, 100R OHM, 5%, 0603	0	2	2		R1,17
S18	RCT-00010-A00	Chip Resistor, 1K OHM, 5%, 0603	0	1	1		R12
S19	RCT-00007-A00	Chip Resistor, 470K OHM, 5%, 0603	0	3	3		R15-16,26
S20	RCT-00011-A00	Chip Resistor, 2M OHM, 5%, 0603	0	2	2		R9,10
S21	CAP-00011-A01	Tant Cap, 10uF, 10V, 10%, TYP. A	1	2	3	C4	C2,17
S22	TRA-00001-A00	Transistor, NPN, 25V, 0.8A, SOT-23	2	4	6	Q1,Q3	Q1-2,4-5
S23	TRA-00002-A00	Transistor, PNP, 25V, 0.8A, SOT-23	1	1	2	Q2	Q3
S24	SWI-00003-A00	Slide switch, 1P2T, SKYB-12D22-G2-0A	1	2	3	S2	S2,3
S25	SWI-00004-A01	Slide switch, TS-1135HSV-E-250-REEL	1	1	2	S3	S5
S26	CAP-00010-A00	SMD E cap, V-chip Type VE, 47uF, 6.3V Size:5x5mm	1	2	3	C5	C8, C12
S27	DIO-00001-A00	Schottky Barrier Diode, 20V, 0.625A, SOD-323	2	2	4	D1-2	D2,3
S28	WAF-00002-A01	Wafer, 4P SMT, STRAIGHT, PITCH 1.25MM, for Power	1	1	2	J1	J1
S29	VOD-00001-A00	Voltage Detector, 2.1V, +/-1%, N-ch output, SOT-23	0	1	1		U3
S30	LED-00002-A00	CHIP LED, BI-COLOR, 3.2x1.6mm SMD	0	1	1		LED1
S31	SWI-00001-A00	Rotary Dip Switch, Real Code, 16 Position, SMD	0	1	1		S1
S32	SWI-00008-A00	Double Action switch	0	1	1		S4
S33	DIO-00002-A00	Diode, LL4148	0	1	1		D1
S34	JAC-00002-A00	Phone Jack, 3.5MM, Stereo, SMD TYPE	0	1	1		J2
S35	FPC-LV5A-A01	FPC connector, upper connection, PITCH 1.0mm, PIN 20	0	1	1		J4
S36	FPC-LV5B-A02	FPC, 21X 25.5mm	0	1	1		
S37	RFM-00001-A02	2.4 Ghz RF module, VT-CC2500PA-H1	0	1	1		RF1
S38	MCU-00002-A00	MCU, PIC16F723, SSOP28	0	1	1		U4
S39	PCB-LV5ER-A00	MAIN PCB, 45.50*53.00mm, 1.60mm Thick, Lead free HASL Finishing	1	0	1		
S40	PCB-LV5SR-A00	MAIN PCB, 45.50*53.00mm, 1.60mm Thick, Lead free HASL Finishing	0	1	1		

**MOD LEVEL**

Item	New Part No.	Description	Qty (TX)	Qty (RX)	Qty (Total)	Ref (TX)	Ref (RX)
B01	QUA-00001-A01	Quartz, 32.768kHz, +/-10ppm, 2 x6mm, C-002RX	1	1	2	X1	X1
B02	WIR-00003-A00	Wire assembly, 4P, L=42mm, UL1571	1	1	2		
B03	LAS-00001-A02	Laser module, dia. 7mm, baking varnish Pantone black C	1	0	1		
B04	SEN-00001-A00	Photo Sensor, 3mm	0	1	1		SEN1