

The Sapling Company, Inc. (SAP)

A-CCA-LPA-24G-1

REV 2c

Circuit Card Assy, LPA 2.4GHz for Wireless Analog Clocks

5/23/2013

A-PCB-LPA-24G-1		PCB For LPA Module 2.4GHz BD F	1.00 Item: 1			
LINE	COMPONENT	DESCRIPTION	U/M	LOCATION	PART NUMBER	MANUFACTURER
1	E-CR26MHZ-16PF	CRYSTAL, 4-PIN, 26 MHZ, 16PF,	1.00 Y2		ABMM2-26.000HMZ-16-1-B1-T	Abracon Corporation
2	E-ICSN74LVC1G17	Single Schmitt-Trigger Buffer	2.00 U1,U2		SN74LVC1G17DBVR	Texas Instruments
3	E-DO-NOT-POP	Do Not Populate Component	20.00	C11,C31,C32,C33,C34,C43,C45,C51,C52,FL2,J1,J2,R3,R5,R7,F XXXXX		XXXXX
4	E-DSBAT46JFILM	DIODE SCHOTTKY SS SOD-323	1.00 D1		BAT46JFILM	STMicroelectronics
5	E-DFBAV99LT1	DIODE, SOT23, BAV99-TP, DUAL S	1.00 D2		BAV99LT1G	ON Semiconductor
6	E-LEDAM2520CGCK	LED, GREEN, SMT 2.5X2	1.00 LED1		AM2520CGCK09	Kingbright Corp
7	E-LEDAM2520EC	LED, RED, SMT 2.5X2	1.00 LED2		AM2520EC09	Kingbright Corp
8	E-QMMBT4401WT1	Transistor,Switching, NPN, SC-	4.00 Q6,Q8,Q10,Q12		MMBT4401WT1G	ON Semiconductor
9	E-QMMBT4403WT1	Transistor,Switching, PNP, SC-	6.00 Q1,Q2,Q5,Q7,Q9,Q11		MMBT4403WT1G	ON Semiconductor
10	E-SWTCH-TM116C	LT SWITCH RT ANGLE L8.35MM, Ca	2.00 SW1,SW2		EVQ-PF108K	Panasonic - ECG
11	E-CR32.7-ABS25	Crystal, 32.768KHZ, 4-PIN, 6pf	1.00 Y1		ABS25-32.768KHZ-6-1-T	Abracon Corporation
12	E-ICMSP430F2252	IC,TSOP38,MSP430F2252,MICROCON	1.00 U3		MSP430F2252IDAR	Texas Instruments
13	E-ICNC7SZ14M	IC, SOT23-5, NC7SZ14M5 or NC7S	2.00 U6,U7		NC7SZ14M5X	Fairchild Semiconductor
14	E-Q2222LT1SOT23	Transistor NPN SOT23, 2N2222A	2.00 Q3,Q4		MMBT2222A	Fairchild Semiconductor
15	E-CC.1UF16V0402	CAP CER 0.1UF 16V 20% 0402 Y5V	7.00 C1,C2,C3,C4,C20,C44,C46		C0402C104M4VACTU	Kemet
16	E-CCHF27PF50V42	CER CAP, High-Freq 27 PF 50V+/-	11.00 C7,C9,C10,C12,C13,C21,C25,C35,C36,C40,C42		500R07S270JV4T	JOHANSON TECHNOLOGY INC (VA)
17	E-CCHF220PF50V4	CER CAP, High-Freq 220 PF 50V+	3.00 C14,C15,C38		GRM155R71H221KA01D	Murata Electronics North America
18	E-CCHF9.1PF50V4	CER CAP, High-Freq, 9.1 PF 50V	2.00 C23,C27		GJM1555C1H9R1CB01D	Murata Electronics North America
19	E-CCHF6.8PF50V4	CER CAP, High-Freq 6.8 PF 50V+	1.00 C24		CBR04C689D5GAC	Murata Electronics North America
20	E-CCHF.1UF10V42	CER CAP, High-Freq 0.1 UF 10V	4.00 C22,C26,C37,C39		C0402C104K8RACTU	Kemet
21	E-CCHF1.5PF50V4	CER CAP, High-Freq, 1.5 PF 50V	1.00 C29		GJM1555C1H1R5CB01D	Murata Electronics North America
22	E-CCHF1PF50V402	CER CAP, Hi-Freq 1.0 PF 50V+/- .1PF 0402	2.00 C17,C53		GJM1555C1H1R0BB01D	Murata
23	E-CCHF2.2UF6.3V	CER CAP, High-Freq 2.2 UF 6.3V	2.00 C47,C49		GRM155R60J225ME15D	Murata
24	E-CCHF100PF50V4	CER CAP, High-Freq 100 PF 50V+	3.00 C30,C48,C50		GRM1555C1H101JZ01D	Murata Electronics North America
25	E-CONFR2X7TH0.1	CON,RF,2X7,0.1	1.00 J3		SSW-107-02-G-D-RA	Samtec Inc
26	E-CONF2X7TH0.1	CON,F,2X7,0.1SP, HT.335 Female Conn	1.00 J4		SSW-107-01-F-D	Samtec Inc
27	E-INLQW15AN4N3C	INDUCTOR,0402, 4.3NH,750mA,+/-	2.00 L1,L3		LQW15AN4N3C00D	Murata Electronics North America
28	E-INLQW15AN1N5B	INDUCTOR,0402, 1.5NH,1000mA,+/-	1.00 L2		LQW15AN1N5B00D	Murata Electronics North America
29	E-CCHF0.7PF50V4	CER CAP,Hi-Freq, 0.7 PF 50V+/-0.05pF 04	1.00 C28		GJM1555C1HR70WB1D	Murata
30	E-INBLM15HB221S	Chip Ferrite Bead, 220 OHM 250	2.00 L5,L6		BLM15HB221SN1D	Murata Electronics North America
31	E-R47K5%0402	RES 47K OHM 5% 1/16W 0402 SMD	1.00 R1		RC0402JR-0747KL	Yageo
32	E-CC2.2PF50V402	CER CAP 2.2PF 50V+/- .25PF 0402	2.00 C5,C6		GRM1555C1H2R2CZ01D	Murata
33	E-R0-5%0402	RES 0 OHM 5% 1/16W 0402 SMD	10.00 R2,R4,R6,R8,R15,R16,R30,R47,R48,R49		RC0402JR-070RL	Yageo
34	E-R220-5%0402	RES 220 OHM 5% 1/16W 0402 SMD	1.00 R11		RC0402JR-07220RL	Yageo
35	E-R10K5%0402	RES 10K OHM 5% 1/16W 0402 SMD	11.00 R12,R13,R31,R32,R33,R34,R38,R39,R40,R41,R42		RC0402JR-0710KL	Yageo
36	E-R100K5%0402	RES 100K OHM 5% 1/16W 0402 SMD	2.00 R14,R45		RC0402FR-07100KL	Yageo
37	E-R100-5%0402	RES 100 OHM 5% 1/10W 0402 SMD	9.00 R17,R18,R23,R24,R25,R28,R35,R36,R37		RC0402JR-07100RL	Yageo
38	E-R470-5%0402	RES 470 OHM 5% 1/10W 0402 SMD	2.00 R19,R20		RC0402JR-07470RL	Yageo
39	E-R56K1%0402	RES 56K OHM 1% 1/10W 0402 SMD	1.00 R26		RC0402FR-0756KL	Yageo
40	E-R51K5%0402	RES 51K OHM 1/10W 5% 0402 SMD	1.00 R46		RC0402FR-0751KL	Yageo
41	E-CON1X1TH0.1	Connector, TSW-101-07-G-S Samt	2.00 TP4,TP5		TSW-101-07-G-S	Samtec Inc
42	E-ICCC2500RTKR	IC RF TXRX SNGL-CHIP LP 20-QFN	1.00 U4		CC2500RTKR	Texas Instruments
43	E-ICCC2591RGV	IC RF FRONT END 2.4GHZ 16QFN	1.00 U5		CC2591RGVR	Texas Instruments
44	E-R4.3K1%0402	RES 4.3K OHM 1/10W 1% 0402 SMD	3.00 R27,R9,R10		RC0402FR-074K3L	Yageo
45	E-CCHF15PF50V42	CER CAP, High-Freq 15 PF 50V+/-	1.00 C41		GJM1555C1H150JB01D	Murata
46	E-CCHF1000PF50V	CER CAP, High-Freq,1000 PF 50V	4.00 C8,C16,C18,C19		GRM1555C1H102JA01D	Murata
47	E-INLQG15SH1N1S	INDUCTOR,0402, 1.1NH,300mA,+/-	1.00 L7		LQG15HS1N1S02D	Murata
48	E-INLQG15HS5N1S	INDUCTOR,0402, 5.1NH,300mA,+/-	1.00 L8		LQG15HS5N1S02D	Murata
49	E-FL748112024	RF Filter, Low Pass WE-LPF	1.00 FL1		748112024	WURTH ELECTRONICS
50	E-INLQG15HS3N3S	INDUCTOR,0402, 3.3NH,300mA,+/-0.3	1.00 L4		LQG15HS3N3S02D	Murata
51	E-INLQG15HS2N7S	INDUCTOR,0402, 2.7NH,300mA,+/-0.3	1.00 L9		LQG15HS2N7S02D	Murata