The Sapling Company, Inc. (SAP)

E-CCA-HPB-24G-1

Rev 2c

Circuit Card Assy, HPB 2.4GHz for Wireless Digital Clocks

5/23/2013

	D-PCB-HPB-24G-1	PCB For High Power 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--1-B1-T	Abracon Corporation
2	E-ICSN74LVC1G17	Single Schmitt-Trigger Buffer	2.00	U3,U5	SN74LVC1G17DBVR	Texas Instruments
3	E-DO-NOT-POP	Do Not Populate Component	5.00	FL1,SB1,SB2,SW1,SW2	XXXXX	XXXXX
4	E-DSMA6J10A-TR	DIODE, TRANSIL 600W 10V UNIDIR	1.00	D1	SMA6J10A-TR	STMicroelectronics
5	E-DFBAV99LT1	DIODE, SOT23, BAV99-TP, DUAL S	1.00	D2	BAV99LT1G	ON Semiconductor
6	E-LEDS1005CGCK	LED, GREEN, SMT, 1X0.5MM(0402)	1.00	LED1	APHHS1005CGCK	Kingbright Corp
7	E-LEDS1005SECK	LED, ORANGE, SMT, 1X0.5MM(0402),	1.00	LED2	APHHS1005SECK	Kingbright Corp
8	E-CR32.7-ABS25	Crystal, 32.768KHZ, 4-PIN, 6pf	1.00	Y1	ABS25-32.768KHZ-6-1-T	Abracon Corporation
9	E-ICMSP430F2252	IC,TSOP38,MSP430F2252,MICROCON	1.00	U2	MSP430F2252IDAR	Texas Instruments
10	E-ICNC7SZ04P5X	IC INVERTER UHS SINGLE SC70-5	1.00	U8	NC7SZ04P5X	Fairchild Semiconductor
11	E-Q2222LT1SOT23	Transistor NPN SOT23, 2N2222A	2.00	Q1,Q2	MMBT2222A	Fairchild Semiconductor
12	E-CC.1UF16V0402	CAP CER 0.1UF 16V 20% 0402 Y5V	8.00	C2,C4,C6,C12,C16,C18,C22,C23	C0402C104M4VACTU	Kemet
13	E-CCHF27PF50V42	CER CAP, High-Freq 27 PF 50V+/	13	C13,C14,C15,C17,C20,C21,C25,C26 C27,C29,C53,C66,C69	500R07S270JV4T	JOHANSON TECHNOLOGY INC (VA)
14	E-CCHF220PF50V4	CER CAP, High-Freq 220 PF 50V+	3.00	C34,C35,C65	GRM155R71H221KA01D	Murata Electronics North America
15	E-CCHF9.1PF50V4	CER CAP, High-Freq, 9.1 PF 50V	2.00	C49,C59	GJM1555C1H9R1CB01D	Murata Electronics North America
16	E-CCHF6.8PF50V4	CER CAP, High-Freq 6.8 PF 50V+	2.00	C45,C52	CBR04C689D5GAC	Murata Electronics North America
17	E-CCHF.1UF10V42	CER CAP, High-Freq 0.1 UF 10V	8.00	C10,C32,C42,C46,C57,C58,C60,C72	C0402C104K8RACTU	Kemet
18	E-CCHF1.5PF50V4	CER CAP, High-Freq, 1.5 PF 50V	1.00	C51	GJM1555C1H1R5CB01D	Murata Electronics North America
19	E-CCHF2.7PF50V4	CER CAP, High-Freq 2.7 PF 50V+	1.00	C53	GJM1555C1H2R7CB01D	Murata Electronics North America
20	E-CCHF1UF16V805	CER CAP, High-Freq 1 UF 16V+/-	1.00	C28	GRM21BR71C105KA01L	Murata Electronics North America
21	E-CCHF100PF50V4	CER CAP, High-Freq 100 PF 50V+	15.00	C1,C33,C38,C40,C47,C54,C55,C56 C62,C63,C67,C71,C74,C75,C76	GRM1555C1H101JZ01D	Murata Electronics North America
22	E-CONMR2X7TH0.1	CON,RM,2X7,0.1	1.00	P2	TSW-107-08-T-D-RA	Samtec Inc
23	E-CON22232081TH	CON,0.1" SP MOLEX (8PIN) MALE	1.00	P1	22-23-2081	Molex Inc
24	E-INLQW15AN4N3C	INDUCTOR,0402, 4.3NH,750mA,+/-	2.00	L2,L4	LQW15AN4N3C00D	Murata Electronics North America
25	E-INLQW15AN1N5B	INDUCTOR,0402, 1.5NH,1000mA,+/	1.00	L3	LQW15AN1N5B00D	Murata Electronics North America
26	E-INLQG15HS2N7S	INDUCTOR,0402, 2.7NH,300mA,+/-0.3	1.00	L5	LQG15HS2N7S02D	Murata
27	E-INBLM15HB221S	Chip Ferrite Bead, 220 OHM 250	2.00	L6,L7	BLM15HB221SN1D	Murata Electronics North America
28	E-R47K5%0402	RES 47K OHM 5% 1/16W 0402 SMD	1.00	R2	RC0402JR-0747KL	Yageo
29	E-INLQG15HS3N3S	INDUCTOR,0402, 3.3NH,300mA,+/-0.3	1.00	L10	LQG15HS3N3S02D	Murata
30	E-R0-5%0402	RES 0 OHM 5% 1/16W 0402 SMD	3.00	R10,R11,R25	RC0402JR-070RL	Yageo
31	E-R4.3K1%0402	RES 4.3K OHM 1/10W 1% 0402 SMD	1.00	R22	RC0402FR-074K3L	Yageo
32	E-R220-5%0402	RES 220 OHM 5% 1/16W 0402 SMD	1.00	R16	RC0402JR-07220RL	Yageo
33	E-R10K5%0402	RES 10K OHM 5% 1/16W 0402 SMD	5.00	R3,R6,R20,R23,R24	RC0402JR-0710KL	Yageo
34	E-R100K5%0402	RES 100K OHM 5% 1/16W 0402 SMD	1.00	R13	RC0402FR-07100KL	Yageo
35	E-R100-5%0402	RES 100 OHM 5% 1/10W 0402 SMD	10.00	R7,R8,R9,R12,R14,R15,R17,R18,R19,R26	RC0402JR-07100RL	Yageo
36	E-R680-5%0402	RES 680 OHM 5% 1/10W 0402 SMD	2.00	R4,R5	RC0402JR-07680RL	Yageo
37	E-R56K1%0402	RES 56K OHM 1% 1/10W 0402 SMD	1.00	R21	RC0402FR-0756KL	Yageo
38	E-CON1X1TH0.1	Connector, TSW-101-07-G-S Samt	1.00	TP3	TSW-101-07-G-S	Samtec Inc
39	E-ICCC2500RTKR	IC RF TXRX SNGL-CHIP LP 20-QFN	1.00	U9	CC2500RTKR	Texas Instruments
40	E-ICCC2591RGV	IC RF FRONT END 2.4GHZ 16QFN	1.00	U10	CC2591RGVR	Texas Instruments
41	E-CCHF10UF10V12	CER CAP, High-Freq 10 UF 10V+8	3.00	C3,C7,C9	GRM329F51A106ZA01D	Murata
42	E-CCHF20PF50V42	CER CAP, High-Freq 20 PF 50V+/	2.00	C19,C24	GJM1555C1H200JB01D	Murata
43	E-CC2.2UF10V402	CER CAP, Multilayer 2.2 UF 10V	2.00	C48,C70	C1005X5R1A225KT	TDK
44	E-CCHF.01UF25V4	CAP CER, High-Freq 0.01 UF 25V	4.00	C30,C31,C41,C68	C1005X7R1E103JT	TDK
45	E-CONCONSMA002	RF Connectors SMA Female Right	1.00	J1	CONSMA002-SMD	Linx Technologies
46	E-INBLM15AX700S	Chip Ferrite Bead, 70 OHM 780m	1.00	L1	BLM15AX700SN1D	Murata
47	E-Q2907LT1SOT23	Transistor PNP, T2-SOT23	1.00	Q3	MMBT2907A	Fairchild Semiconductor
48	E-ICLM1117MPX-3	IC-800MA- Low Dropout Linear R	1.00	U1	LM1117MPX-3.3/NOPB	National Semiconductor
49	E-ICLD1117AS33T	IC REG LDO 3.3V 1.2A SOT-223	1.00	U4	LD1117AS33TR	STMicroelectronics
50	E-ICHMC544E	Switch, GaAs MMIC T/R, DC-4.0	2.00	SW3,SW4	HMC544E	HITTITE
51	E-ICALM-31222-B	IC AMP 1W PA 2GHZ 22MCOB	1.00	U11	ALM-31222-BLKG	Avago Technologies
52	E-CCHF1000PF50V	CER CAP, High-Freq,1000 PF 50V	4.00	C11,C36,C37,C43	GRM1555C1H102JA01D	Murata
53	E-CCHF15PF50V42	CER CAP, High-Freq 15 PF 50V+/	1.00	C61	GJM1555C1H150JB01D	Murata
54	E-CCHF2.2UF6.3V	CER CAP, High-Freq 2.2 UF 6.3V	2.00	C64,C73	GRM155R60J225ME15D	Murata
55	E-INLQG15HS5N1S	INDUCTOR,0402, 5.1NH,300mA,+/-	1.00	L8	LQG15HS5N1S02D	Murata
56	E-INLQG15SH1N1S	INDUCTOR,0402, 1.1NH,300mA,+/-	1.00	L9	LQG15HS1N1S02D	Murata
57	E-IC74LVC1G17DC	Buffers & Line Drivers Single Schmitt-Trgr SC-70-5	2.00	U7,U12	SN74LVC1G17DCKRG4	Texas Instruments
58	E-CC2.2PF50V402	CER CAP 2.2PF 50V+/-.25PF 0402	2.00	C5,C8	GRM1555C1H2R2CZ01D	Murata
59	E-CCHF1PF50V402	CER CAP, Hi-Freq 1.0 PF 50V+/-.1PF 0402 Multilayer	2.00	C39,C44	GJM1555C1H1R0BB01D	Murata
60	E-CCHF0.7PF50V4	CER CAP,Hi-Freq, 0.7 PF 50V+/-0.05pF 0402 Multila	1.00	C50	GJM1555C1HR70WB1D	Murata
61	E-R1K5%0402	RES 1K OHM 5% 1/16W 0402 SMD	1.00	R1	RC0402FR-071KL	Yageo
62	E-FL748112024	RF Filter, Low Pass WE-LPF	2.00	FL2,FL3	748112024	WURTH ELECTRONICS
63	E-ICSN74LVC1G07	IC BUFF/DVR NON-INVERT SOT23-5	1.00	U6	SN74LVC1G07DBVR	TI