

Drawing Type BILL OF MATERIALS
Drawing Title OPT8241-CDK-EVM SB REV2P0V1
Drawing Number -
Assembly Revision 2P0V1

Release Date 5/5/2015

Item	Quantity	Reference	Part	Manufacturer	Manufacturer Part Number	PCB Footprint
1	26	B1,B2,B3,B4,B5,B6,B7,B8, B9,B10,B11,B13,B14,B15, B16,B17,B18,B19,B20,B21, B22,B23,B25,B26,B27,B12	BK1005HS100-T	Taiyo Yuden	BK1005HS100-T	indc0402
2	1	C6	100pF	Johanson	250R05L101JV4T	P_CC0201
3	1	B24	BLM31PG121SN1L	Murata	BLM31PG121SN1L	indc1206
4	25	C3,C4,C8,C10, C12,C13,C58,C61,C62, C64,C65,C66,C67,C68,C69, C70,C71,C73,C74,C75,C76, C77,C78,C79	1uF	TDK	C0603X5R0G105M030BC	P_CC0201
5	16	C7,C14,C15,C21,C22,C24, C29,C34,C35,C53,C86,C87, C88,C9,C11,C94	100nF	TDK	C0603X5R1E104K030BB	CC0201
6	1	C1	10nF	TDK	C0603X6S0J103K030BA	CC0201
7	8	C16,C19,C26,C30,C31,C46, C48,C51	22uF	TDK	C1608X5R1A226M080AC	CC0603
8	5	C17,C36,C90,C92,C95	100nF	TDK	C0603X5R1E104K030BB	CC0201
9	1	C18	10pF	TDK	C0603C0G1E100D030BA	CC0201
10	3	C20,C38,C39	10uF	Samsung	CL05A106MP5NUNC	CC0402
11	18	C23,C28,C32,C37,C41, C54,C55,C56,C57,C59, C60,C80,C81,C82,C84, C85,C93,C63	1uF	TDK	C0603X5R0G105M030BC	CC0201
12	4	C27, C43,C83, C40	1uF	Samsung	CL03A105MP3NSNC	CC0201
13	2	C25,C47	15uF	TDK	C1608X5R0G156M080AA	CC0603
14	2	C33,C44	12pF	TDK	C0603C0G1E120J030BA	CC0201
15	1	C2,C5	1.5nF	TDK	C0603JB1E152K030BA	P_CC0201
16	5	C42,C49,C50,C52,C72	100nF	TDK	C0603X5R1E104K030BB	CC0201
17	3	C45,C89,C91	100pF	TDK	C0603C0G1E101J030BA	CC0201
18	1	C96	1.5mF	Kemet	T520H158M006ATE055	CT7360-20
19	1	D1	PMEG3005EL	NXP	PMEG3005EL	dio_sod882
20	1	D2	CLVBA-FKA-CAEDH8BBB7A363	Cree	CLVBA-FKA-CAEDH8BBB7A363	LED_CLVBA-FKA-CAEDH8BBB7A363
21	1	D3	APHBM2012QBDSURKC	Kingbright	APHBM2012QBDSURKC	LED_APHBM2012QBDSURKC
22	1	D4	PMEG3050EP,115	NXP	PMEG3050EP,115	DIO_SOD128
23	1	J1	SHF-112-01-L-D-RA	Samtec	SHF-112-01-L-D-RA	SAMTEC_SHF-112-01-L-D-RA
24	1	J2	ZF5S-40-01-T-WT	Samtec	ZF5S-40-01-T-WT	ZF5S-40-01-T-WT
25	1	J3	PJ-002A	CUI	PJ-002A	DC005A
26	0	J4	DNP	0	DNP	TP_20mil_4
27	0	J5	DNP	Samtec	TSM-102-01-T-SH	SAMTEC_TSM-102-01-T-SH
28	0	J6	DNP	Tag Connect	TC2030-IDC-NL	TAG-CONNECT_TC2030-IDC-NL
29	1	L1	6.8uH	TDK	VLS2012ET-6R8M-CA	ind_vls2012e
30	4	L2,L3,L4,L5	1uH	Taiyo Yuden	BRC2012T1R0M	INDC0805
31	0	MH1,MH2,MH3,MH4,MH5,MH6, MH7,MH8	DNP			NPTH_118
32	1	RN1	0	Panasonic	EXB-24VR000X	EXB-24VR000X
33	0	RN2	DNP	Panasonic	EXB-24VR000X	EXB-24VR000X
34	0	R1,R12,R48	DNP	Panasonic	ERJ-1GNOR00C	R0201
35	39	R2,R16,R30,R31,R32,R35,	0	Panasonic	ERJ-1GNOR00C	R0201

		R37,R44,R45,R46,R47,R50,				
		R51,R52,R60,R63,R67,R68,				
		R69,R70,R71,R72,R73,R74,				
		R75,R77,R78,R79,R80,R81,				
		R82,R83,R84,R85,R86,R87,				
		R88,R89,R90				
36	1	R3,R36,R38,R54,R55,R56,	2.2k	Panasonic	ERJ-1GEJ222C	R0201
		R57,R92,R93,R96,R97				
37	8	R4,R18,R21,R24,R40,R42,	1k	Panasonic	ERJ-1GEF1001C	R0201
		R76,R98				
38	5	R5,R6,R7,R8,R9	100	Panasonic	ERJ-1GEF1000C	R0201
39	1	R10	84.5k	Panasonic	ERJ-1GEF8452C	R0201
40	1	R11	20k	Panasonic	ERJ-1GEF2002C	R0201
41	17	R13,R15,R20,R22,R34,R39,	10k	Panasonic	ERJ-1GEF1002C	R0201
		R49,R53,R58,R59,R61,R62,				
		R65,R66,R107,R108,R109				
42	0	R103	DNP	Panasonic	ERJ-1GEF1002C	R0201
43	1	R14	191k	Panasonic	ERJ-1GEF1913C	R0201
44	1	R17	100k	Panasonic	ERJ-1GEJ104C	R0201
45	1	R19	40m	Vishay Dale	WSL1206R0400FEA18	R1206
46	2	R23,R41	10k	Panasonic	ERJ-1GEF1002C	R0201
47	1	R25	1.5k	Panasonic	ERJ-1GEF1501C	R0201
48	1	R26	698	Panasonic	ERJ-6ENF6980V	R0805
49	1	R27	200	Panasonic	ERJ-1GEF2000C	R0201
50	4	R28,R100,R101,R102	51	Panasonic	ERJ-1GEJ510C	R0201
51	3	R29,R94,R95	200k	Panasonic	ERJ-1GEJ204C	R0201
52	1	R33	6m	Vishay Dale	WSL1206L000FEA	R1206
53	1	R43	49.9k	Vishay Dale	CRCW060349K9FKEA	R0603
54	0	R64,R99,R104	DNP	Panasonic	ERJ-1GEF1002C	R0201
55	1	R91	422k	Panasonic	ERJ-1GEF4223C	R0201
56	0	R105,R106	DNP	Panasonic	ERJ-1GEJ204C	R0201
57	1	SW1	TL1015AF160QG	E-Switch	TL1015AF160QG	TL1015
58	1	SW2	500SDP1S1M2QEA	E-Switch	500SDP1S1M2QEA	TS21001
59	1	U1	CSD23381F4	Texas Instruments	CSD23381F4	DFN100X60X35-3N
60	1	U2	CSD13381F4	Texas Instruments	CSD13381F4	DFN100X60X35-3N
61	1	U3	OPT8241	Micron	OPT8241	OPT8241_DS_2v4
62	1	U4	1051640001	Molex	1051640001	1051640001
63	1	U5	TPD2EUSB30	Texas Instruments	TPD2EUSB30DRTR	SOT35P100X50-3N
64	1	U6	W25Q40BWSN	Winbond	W25Q40BWSNIG	SOIC127P600X175-8N
65	1	U7	MT47H32M16HR-25E-G_0	Micron	MT47H32M16HR-25E-G_0	BGA84N80P6X15_1250X800X120
66	1	U8	OPT9221	Texas Instruments	OPT9221	BGA256C50P16X16_900X900X120A
67	1	U9	LMR70503	Texas Instruments	LMR70503TM/NOPB	LMR70503_DSBGA
68	1	U10	TPS2552	Texas Instruments	TPS2552DRVR	SON6
69	1	U11	TPS659122YFFT	Texas Instruments	TPS659122YFFT	bga81c40p9x9_360x360x63a
70	1	U12	TPS2113A	Texas Instruments	TPS2113ADRBR	TPS2115A
71	1	U13	CY7C68053-56BAXI	Cypress	CY7C68053-56BAXI	bga56c50p8x8_500x500x100a_cus
72	2	U14,U17	INA226	Texas Instruments	INA226AIDGSR	INA226
73	3	U15,U22,U23	PCA9306DQER	Texas Instruments	PCA9306DQER	PCA9306DQER
74	1	U16	TPS2559	Texas Instruments	TPS2559DRCR	TPS2559
75	1	U18	24AA512-1/SN	Microchip	24AA512-1/SN	SOIC127P600X175-8N
76	1	U19	TPS2400	Texas Instruments	TPS2400DBVT	SOT-23-5
77	1	U20	CSD17578Q3A	Texas Instruments	CSD17578Q3A	SON_CSD17578Q3A
78	1	U21	TPLO102-100PWR	Texas Instruments	TPLO102-100PWR	SOP65P580X120-14
79	1	U24	SN74AHC1G04	Texas Instruments	SN74AHC1G04DRLR	SOT553
80	1	Y1	ECS-240-8-37CKM	ECS Inc	ECS-240-8-37CKM	XTAL200X160X55
81	1	-	OPT8241-CDK-EVM SB REV2P0V1	Krypton	OPT8241-CDK-EVM SB REV2P0V1	-