

Bill of Material

Bill of Materials For Variant [CBS Production PCB] of BOM Document [CBS2100EE.BomDoc]

Source Data From:

CBS2100EE.BomDoc

Project:

CBS1100.PrjPCB

Assembly PCB:

1051.00041.00_1

A.3

Variant:

CBS Production PCB

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Number	LibRef	Comment	Footprint	Value	Designator	Description	Quantity	Supplier 1	Supplier Part Number 1	Manufacturer 1	Manufacturer Part Number 1
1	CMP-08465-A.2	CAP 1uF 50V 0805(2012)	C0805	1uF	C1, C13	CAP 1uF 50V ±20% 0805 (2012 Metric) Thickness 1.45mm SMD	2	Digi-Key	478-7956-2-ND	AVX	0805C106KAT2A
2	CMP-08248-A.2	CAP 10uF 6.3V 0805(2012)	C0805	10uF	C2, C15, C17, C18, C25	CAP 10uF 6.3V ±20% 0805 (2012 Metric) Thickness 1.45mm SMD	5	Digi-Key	478-5322-2-ND	AVX	0805C6106KAT2A
3	CMP-08452-A.2	CAP 100uF 50V 0805(2012)	C0805	100uF	C3, C4, C12, C14, C16, C19, C20, C21, C22, C24, C26, C27	CAP 100uF 50V ±20% 0805 (2012 Metric) Thickness 1mm SMD	12	Digi-Key	478-1395-2-ND	AVX	0805C104KAT2A
4	CMP-08368-A.2	CAP 100pF 50V 0805(2012)	C0805	100pF	C5, C7, C8, C9	CAP 100pF 50V ±20% 0805 (2012 Metric) Thickness 1mm SMD	4	Digi-Key	0805C101KAT2A-ND	AVX	0805C101KAT2A
5	CMP-08470-A.2	CAP 4.7uF 50V 0805(2012)	C0805	4.7uF	C6	CAP 4.7uF 50V ±20% 0805 (2012 Metric) Thickness 1.45mm SMD	1	Digi-Key	1276-1248-2-ND	Samsung Electro-Mechanics	CL21A475KBQNNNE
6	CMP-09201-A.2	CAP 20pF 50V 0805(2012)	C0805	20pF	C10, C11	CAP 20pF 50V ±10% 0805 (2012 Metric) Thickness 1mm SMD	2	Digi-Key	399-8033-2-ND	KEMET	C0805C200J5GACTU
7	CMP-08759-A.2	CAP EL 470uF 35V	CE2D4	470u	CE1	CAP EL 470uF 35V ±20% D=10mm F=5mm H=15mm	1	Digi-Key	P12415-ND	Panasonic	EEU-FM1V471
8	CMP-08750-A.2	CAP EL 47uF 16V	CE1D2	47u	CE2	CAP EL 47uF 16V ±20% D=6.3mm F=2.5mm H=5mm	1	Digi-Key	P11196-ND	Panasonic	EEU-FC1C470
9	CMP-00031-A.2	NS39-W3P	FLY3V		CN1	NS39 Series, 3-Pin, PCB Connector, 3.96mm Pitch	1	Digi-Key	455-1640-ND	JST Sales America, Inc.	B3P-VH(LF)(SN)
10	CMP-00032-A.2	NS39-W4P	NS39-W4P		CN2	NS39 Series, 4-Pin, PCB Connector, 3.96mm Pitch	1	Digi-Key	455-1641-ND	JST Sales America, Inc.	B4P-VH(LF)(SN)
11	CMP-00135-A.1	NS39-W5P	NS39-W5P-1		CN3, CN10	NS39 Series, 5-Pin, PCB Connector, 3.96mm Pitch	2	Digi-Key	455-1642-ND	JST Sales America, Inc.	B5P-VH(LF)(SN)
12	CMP-00006-A.2	70543-0001	70543-0001		CN4	Shielded Header, 2-Pin, Single Row, .120" Pocket Vertical, 2.54mm (.100") Pitch	1	Digi-Key	WYM400-ND	Molex	0705430001
13	CMP-00102-A.1	52207-0833	MOLX-52207-0833		CN5	1.0 mm Pitch Easy-On(TM) Type FPC Connector, 2.7 mm Mated Height, Right Angle, ZIF, SMT, Top Contact, 8 Circuits, -40 to 85 degC, ELV and RoHS Compliant, Tape and Reel	1	Digi-Key	WIM10376TR-ND	Molex	0522070833
14	CMP-00116-A.2	2501S-5P	2501S-5P		CN6	Connector, 1x5-Pin, 2.5 mm Pitch, Straight	1	Digi-Key	455-2270-ND	JST Sales America, Inc.	B5B-XH-A(LF)(SN)
15	CMP-00025-A.2	NS25-W4P	WF-04S		CN7, CN8	NS25 Series, 4-Pin, PCB Mount, 2.54 mm Pitch, Straight	2	Digi-Key	WYM113-ND	Molex	0022272041
16	CMP-00030-A.2	NS39-W2P	FLY2V		CN9	NS39 Series, 2-Pin, PCB Connector, 3.96mm Pitch	1	Digi-Key	455-1639-ND	JST Sales America, Inc.	B2P-VH(LF)(SN)
17	CMP-00120-A.1	Connector for ERM1202-1	Con_ERM1202-1		CNLC01	Connector 15-pin for LCD Display ERM1202-1	1	Digi-Key	SLM-115-01-S-S-ND	Samtec Inc.	SLM-115-01-S-S
18	CMP-00192-A.1	PESD12VS2UT	SOT-23B		D1	Double ESD protection diodes in SOT23 package, 12V	1	Digi-Key	568-4025-2-ND	NXP Semiconductors	PESD12VS2UT_215
19	CMP-00122-A.1	PMEG6010CEH.115	SOD123_V		D2, D3	Schottky Barrier Diode, 60 V, 11 uA, -65 to 150 degC, SOD123F, RoHS	2	Newark	75R0892	NEXPERIA	PMEG6010CEH.115
20	CMP-08774-A.3	BLM21AG102SN1D	L0805		L1, L2, L3, L4, L5	BLM21A Series Chip Ferrite Bead, 1000 Ohm at 100 MHz, 0.28 Ohm at DC, 500 mA	5	Digi-Key	490-1041-2-ND	Murata	BLM21AG102SN1D
21	CMP-00156-A.3	LED R	LED0805		LED1	RED LED	1	Digi-Key	754-1128-2-ND	Kingbright Company, LLC	APT2012EC
22	CMP-09212-A.3	1051.00041.00_0-A.3	PCB_rev		PCB1	Blank PCB	1	EMS Contractor	1051.00041.00_0-A.3	EMS Contractor	1051.00041.00_0-A.3
23	CMP-00115-A.1	PDTA114ET	SOT-23		Q1, Q2	PNP resistor-equipped transistor, R1=10 kOhm, R2=10 kOhm	2	Digi-Key	568-6425-1-ND	NXP Semiconductors	PDTA114ET_215
24	CMP-00104-A.1	PDTCT114ET	SOT-23		Q3, Q4, Q5, Q6, Q7, Q8, Q10	NPN resistor-equipped transistor, R1=10 kOhm, R2=10 kOhm	7	Digi-Key	568-6429-6-ND	NXP Semiconductors	PDTCT114ET_215
25	CMP-10281-A.3	IRLML6302	SO-G3_Z3.3		Q9	HEXFET Power MOSFET	1	Digi-Key	IRLML6302GTRPBFT-ND	International Rectifier	IRLML6302GTRPBF
26	CMP-00121-A.1	IRLML0060	SOT-23		Q11, Q12	N-Channel MOSFET, Ultra Low On-Resistance	2	Digi-Key	IRLML0060TRPBFCT-ND	Infineon Technologies	IRLML0060TRPBF
27	CMP-03315-A.3	47k 5% 0805(2012)	R0805	47k	R1, R25	47k 0.125W 5% 0805 (2012 Metric) SMD	2	Digi-Key	311-47KARTR-ND	Yageo	RC0805JR-0747K
28	CMP-03297-A.3	10k 5% 0805(2012)	R0805	10k	R2, R10, R11, R18, R19, R24, R27, R28	10k 0.125W 5% 0805 (2012 Metric) SMD	8	Digi-Key	311-10KARTR-ND	Yageo	RC0805JR-0710K
29	CMP-03200-A.3	Jumper 0805(2012)	R0805	0R	R3	Jumper 0805 (2012 Metric) SMD	1	Digi-Key	311-0JARTR-ND	Yageo	RC0805JR-070R
30	CMP-03935-A.3	100k 1% 0805(2012)	R0805	100k	R4	100k 0.125W 1% 0805 (2012 Metric) SMD	1	Digi-Key	311-100KCRTR-ND	Yageo	RC0805FR-07100K
31	CMP-03289-A.3	4k7 5% 0805(2012)	R0805	4k7	R5	4k7 0.125W 5% 0805 (2012 Metric) SMD	1	Digi-Key	311-4.7KARTR-ND	Yageo	RC0805JR-074K7
32	CMP-03982-A.3	270k 1% 0805(2012)	R0805	270k	R6, R8	270k 0.125W 1% 0805 (2012 Metric) SMD	2	Digi-Key	311-270KCRTR-ND	Yageo	RC0805FR-07270K
33	CMP-03785-A.3	4k7 1% 0805(2012)	R0805	4k7	R7	4k7 0.125W 1% 0805 (2012 Metric) SMD	1	Digi-Key	311-4.70KCRTR-ND	Yageo	RC0805FR-074K7
34	CMP-04011-A.3	470k 1% 0805(2012)	R0805	470k	R9	470k 0.125W 1% 0805 (2012 Metric) SMD	1	Digi-Key	311-470KCRTR-ND	Yageo	RC0805FR-07470K
35	CMP-06123-A.3	33R 5% 2010(5025)	R2010	33R	R12	33R 0.75W 5% 2010 (5025 Metric) SMD	1	Mouser	603-RC2010JK-0733RL	Yageo	RC2010JK-0733RL
36	CMP-03203-A.3	390R 5% 0805(2012)	R0805	390R	R14, R20	390R 0.125W 5% 0805 (2012 Metric) SMD	2	Digi-Key	311-390ARTR-ND	Yageo	RC0805JR-07390R
37	CMP-03294-A.3	7k5 5% 0805(2012)	R0805	7k5	R16	7k5 0.125W 5% 0805 (2012 Metric) SMD	1	Digi-Key	311-7.5KARCT-ND	Yageo	RC0805JR-077K5
38	CMP-03277-A.3	1k5 5% 0805(2012)	R0805	1k5	R21, R22	1k5 0.125W 5% 0805 (2012 Metric) SMD	2	Digi-Key	311-1.5KARTR-ND	Yageo	RC0805JR-071K5
39	CMP-03233-A.3	22R 5% 0805(2012)	R0805	22R	R23	22R 0.125W 5% 0805 (2012 Metric) SMD	1	Digi-Key	311-22ARTR-ND	Yageo	RC0805JR-0722RL
40	CMP-03273-A.3	1k 5% 0805(2012)	R0805	1k	R26	1k 0.125W 5% 0805 (2012 Metric) SMD	1	Digi-Key	311-1.0KARTR-ND	Yageo	RC0805JR-071KL
41	CMP-00098-A.1	STMP52141STR	SOT-23.5		U1	Enhanced single channel power switch 500mA	1	Digi-Key	497-6933-6-ND	ST-Microelectronics	STMP52141STR
42	CMP-0237-00087.3	STM32F105RCT6	STM-LQFP64_M		U2	ARM Cortex-M3 32-bit MCU, 256 KB Flash, 64 KB Internal RAM, 51 I/Os, 64-pin LQFP, -40 to 85 degC, Tray	1	Digi-Key	497-8918-ND	ST-Microelectronics	STM32F105RCT6
43	CMP-00090-A.3	ULN2003D	SO-G16_CS.2		U3	Seven Darlington Array	1	Digi-Key	497-2345-2-ND	ST-Microelectronics	ULN2003D1013TR
44	CMP-00080-A.1	M55080-WMN6P	SO-G8_E2.9		U4	8 Kbit serial SPI bus EEPROM with high-speed clock	1	Farnell	109971Q	ST-Microelectronics	M55080-WMN6P
45	CMP-00629-A.2	LM1117DT-3.3	TD03B_N		U5	800mA Low-Dropout Linear Regulator, 3-pin TO-252	1	Farnell	948627Q	Burr-Brown	LM1117DT-3.3
46	CMP-08782-A.2	8.000000 MHz HC49 SMD	XTAL_SMD		X1	Crystal 8.000000 MHz, HC49 SMD, ±30PPM, CL 20pF	1	Digi-Key	XC1271TR-ND	ECS Inc	ECS-80-18-5PX-TR
Total Quantity							92				

Approved

Notes