

SkyWave BOM

Item Number: BA100502-001
Item Rev: B EC-1069
Item Description: CCA APPLICATION CARD

Level	Part Type	Find Num	Number	Rev	Description
0	Assembly - Circuit Card (BA)		BA100502-001	B EC-1069	CCA APPLICATION CARD
1	COTS - Capacitor (CAP)	0	CAP000323	MC-1034	CAP 100n 10% 50V X7R 0603
1	COTS - Component (VARIOUS)	0	20000276	MC-1005	CAP CER X7R 10n0 10% 50V 0402
1	COTS - Component (VARIOUS)	0	20000337	MC-1005	CAP CER C0G 220p 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000345	MC-1029	CAP CER X5R 47u0 20% 6.3V 1206
1	COTS - Component (VARIOUS)	0	20000355	MC-1005	CAP CER C0G 1n00 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000368	MC-1005	CAP CER C0G 10p0 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000389	MC-1005	CAP CER C0G 330p 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000501	MC-1005	CAP CER C0G 100p 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000542	MC-1005	CAP CER X7R 1u00 10% 16V 0603
1	COTS - Component (VARIOUS)	0	20000544	MC-1005	CAP CER X7R 100n 10% 16V 0402
1	COTS - Component (VARIOUS)	0	20000550	MC-1005	CAP CER X7R 10u0 20% 50V 2220
1	COTS - Component (VARIOUS)	0	20000551	MC-1005	CAP CER X7R 10u0 10% 16V 1206
1	COTS - Component (VARIOUS)	0	20000555	MC-1005	CAP CER X7R 1u00 10% 100V 1206
1	COTS - Component (VARIOUS)	0	20000566	MC-1005	CAP TANT 47u0 20% 16V 7343
1	COTS - Component (VARIOUS)	0	21000313	MC-1005	RES FILM 470R 5% 1/16W 0402

1	COTS - Component (VARIOUS)	0	21000314	MC-1005	RES FILM 1K00 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000316	MC-1005	RES FILM 10K0 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000366	MC-1005	RES FILM 1M00 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000382	MC-1005	RES FILM 61K9 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000387	MC-1005	RES FILM 33R0 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000389	MC-1005	RES FILM 510K 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000407	MC-1005	RES FILM 100K 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000412	MC-1005	RES FILM 249K 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000419	MC-1005	RES FILM 100R 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000454	MC-1005	RES FILM 20K0 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000535	MC-1005	RES 200k 5% 1/18W THICK FILM 0805
1	COTS - Component (VARIOUS)	0	21000539	MC-1005	RES FILM 7M50 5% 1/8W 0805
1	COTS - Component (VARIOUS)	0	21000540	MC-1005	RES FILM 200K 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000566	MC-1005	RES FILM 470R 5% 1/4W 1206
1	COTS - Component (VARIOUS)	0	21000570	MC-1005	RES FILM 1R00 5% 1/8W 0805
1	COTS - Component (VARIOUS)	0	21000599	MC-1005	RES FILM 24K3 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000617	MC-1005	RES FILM 33K2 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	23000073	MC-1005	DIO SWITCH DUAL 70V 215mA 200mW SC70
1	COTS - Component (VARIOUS)	0	23000104	MC-1005	DIO SCHOTTKY 40V 3A SMB
1	COTS - Component (VARIOUS)	0	30000016	MC-1005	IC LGC TTL NAND QUAD 2-IN SiGateCMOS 1.2-3.6V TSSOP14

1	COTS - Component (VARIOUS)	0	31000061	MC-1005	IC MEMORY RAM 8Mbit 512Kx16 45ns BGA-48
1	COTS - Component (VARIOUS)	0	40000047	MC-1005	PROTDEV FUSE 32V 5A 0603
1	COTS - Component (VARIOUS)	0	42000019	MC-1005	IC XCVR RS-485/RS4-22 1TX 1RX 250kbps 3-3.6V SOIC8
1	COTS - Component (VARIOUS)	0	43000054	MC-1005	XSTR P-CH MOSFET PWR 20V 3.7A 1.3W SOT23
1	COTS - Component (VARIOUS)	0	43000070	MC-1005	XSTR PNP 45V 100mA SOT23
1	COTS - Component (VARIOUS)	0	43000071	MC-1005	XSTR NPN 45V 100mA SOT23
1	COTS - Component (VARIOUS)	0	43000080	MC-1005	TRANSISTOR MOSFET N-CH 50V 200mA 20VGS 10Ω@2.75V SOT23
1	COTS - Component (VARIOUS)	0	43000092	MC-1005	XSTR P-CH MOSFET 40V 8.2A 2.5W SO8
1	COTS - Component (VARIOUS)	0	CAP000518	MC-1005	CAP CER C0G RF 5p60 +/-0.1pF 25V 0402
1	COTS - Component (VARIOUS)	0	CAP001005	MC-1005	CAP CER X5R 1u00 10% 6.3V 0402
1	COTS - Component (VARIOUS)	0	CON001518	MC-1013	CONN HEADER 2x10 MALE 2mm SMT
1	COTS - Component (VARIOUS)	0	DIO001367	MC-1005	DIO RECTIFIER 200V 1.0A POWERDI123
1	COTS - Component (VARIOUS)	0	DIO001375	MC-1005	DIO SCHOTTKY 30V 100mA 200mW SOD923 SMT
1	COTS - Component (VARIOUS)	0	FET001360	MC-1005	XSTR N-CH FET DMOS 250V 360mA 1.6W SOT-89
1	COTS - Component (VARIOUS)	0	FET001369	MC-1027	XSTR P-CH MOSFET 150V 2.2A 2.5W SOIC-8 SMT
1	COTS - Component (VARIOUS)	0	FET001370	MC-1005	XSTR N-CH MOSFET 20V 4.2A 1.25W SOT23-3 SMT
1	COTS - Component (VARIOUS)	0	IND001519	MC-1013	INDUCTOR 33μH 20% 1.8A POWER
1	COTS - Component (VARIOUS)	0	INT000405	MC-1005	IC XCVR RS-232 1TX 1RX 0.25Mbps 3-5.5V SSOP16
1	COTS - Component (VARIOUS)	0	INT001506	MC-1005	IC, VREG, IN=3-50V, OUT=2-12V, 200mA, HSOP-6
1	COTS - Component (VARIOUS)	0	INT001511	MC-1005	IC VREG LDO IN=2.6-12V OUT=3V 500mA TSSOP8

1	COTS - Component (VARIOUS)	0	INT001512	MC-1005	IC MCU ARM Cortex M3 36MHz 2-3.6V LQFP144
1	COTS - Component (VARIOUS)	0	INT001513	MC-1005	IC FLASH 32Mb Serial 2.7-3.6V SOIC8 (0.209)
1	COTS - Component (VARIOUS)	0	INT001530	MC-1005	IC REGULATOR IN=4.5V-35V OUT=1.24-35V 4A MSOP-8
1	COTS - Component (VARIOUS)	0	INT001533	MC-1005	IC LOGIC OR 2 INPUT SINGLE SC-70-5
1	COTS - Component (VARIOUS)	0	INT001536	MC-1005	IC VOLTAGE REFERENCE SHUNT OUT=2.5V 5% 2mA SOT23-3
1	COTS - Component (VARIOUS)	0	INT001539	MC-1005	IC SUPERVISOR RESET 3V 2% OD ACTIVE LOW SC-82AB
1	COTS - Component (VARIOUS)	0	INT001539	MC-1005	IC SUPERVISOR RESET 3V 2% OD ACTIVE LOW SC-82AB
1	COTS - Component (VARIOUS)	0	INT001540	MC-1005	IC SUPERVISOR RESET 2.5V P-P ACTIVE LOW SOT23-5
1	COTS - Component (VARIOUS)	0	RES000158	MC-1029	RES FILM 0000 1/8W 0805
1	COTS - Component (VARIOUS)	0	RES000395	MC-1005	RES THICK FILM 0R 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES000406	MC-1005	RES FILM 10K0 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES000452	MC-1014	RES FILM 10R0 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES000489	MC-1005	RES FILM 100K 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES001201	MC-1013	RES FILM 12R1 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES001381	MC-1005	RES FILM 1K00 1% 1/8W 0805 SMT
1	COTS - Component (VARIOUS)	0	RES001383	MC-1005	RES FILM 162K 1% 1/8W 0805
1	COTS - Component (VARIOUS)	0	RES001521	MC-1005	RES 200R 5% 1/4W THICK FILM 1206
1	COTS - Component (VARIOUS)	0	RES001522	MC-1005	RES 22R0 5% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001524	MC-1005	RES 2R00 5% 1/4W THICK FILM 1206
1	COTS - Component (VARIOUS)	0	RES001525	MC-1005	RES 3M30 5% 1/16W THICK FILM 0402

1	COTS - Component (VARIOUS)	0	TRA001502	MC-1005	XSTR PNP 50MHz 80V 1.5A 1.5W SOT223
1	COTS - Component (VARIOUS)	0	TRA001502	MC-1005	XSTR PNP 50MHz 80V 1.5A 1.5W SOT223
1	COTS - Component (VARIOUS)	0	TRA001504	MC-1015	TRANSISTOR MOSFET P-CH 40V 3.9A .072R@-4.5V SOIC-8
1	COTS - Diode: Rectifier (DIO)	0	23000096	MC-1005	DIO ZENER 15V 0.05mA SOD-123
1	COTS - Oscillator (OSC)	0	XTAL001501	MC-1013	OSC XTAL 32.768kHz +/-20ppm 6.0pF 8.0 x 3.8mm
1	COTS - Resistor (RES)	0	RES100009	MC-1019	RES FILM 2K55 1% 1/16W 0402
1	Drawing - Schematic	0	SC100502-000	B EC-1069	SCH APPLICATION CARD
1	Drawing - Variant	0	BA100502-000	A EC-1005	CCA APPLICATION CARD (DWG)
1	Part - Printed Circuit Board (BD)	0	BD100502-001	A EC-1005	PCB APPLICATION CARD

Created By: Vadim Volinski
Create Time: 2011-07-12 01:10:08 PM EST

Mfr.Name	Mfr.Part Number	Mfr.Part Lifecycle Phase	Preferred Status	RoHS	Qty	UOM
MULTIPLE	OPEN	Active	Preferred	Compliant	3	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	12	ea
MURATA	GRM1555C1H221JA01D	Active	Preferred	Compliant	1	ea
MURATA	GRM31CR60J476ME19L	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	6	ea
MURATA	GRM1555C1H100JZ01D	Active	Preferred	Compliant	4	ea
MURATA	GRM1555C1H331JA01D	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	33	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	2	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	2	ea
MURATA	GRM31CR72A105KA01L	Active	Preferred	Compliant	2	ea
KEMET	B45196H3476M409	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea

MULTIPLE	OPEN	Active	Preferred	Compliant	6	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	28	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	11	ea
VISHAY	CRCW040261K9FKED	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	2	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	5	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	10	ea
VISHAY	CRCW0402249KFKED	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	12	ea
VISHAY	CRCW040220K0FKED	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	3	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	15	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	2	ea
VISHAY	CRCW040224K3FKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW040233K2FKED	Active	Preferred	Compliant	1	ea
ON SEMICONDUCTOR	BAV99WT1G	Active	Preferred	Compliant	1	ea
ST MICROELECTRONICS	STPS340U	Active	Preferred	Compliant	1	ea
NXP SEMICONDUCTORS	74LVC00APW	Active	Preferred	Compliant	1	ea

CYPRESS	CY62157EV30LL-45BVXI	Active	Preferred	Compliant	1	ea
BEL FUSE	C2Q 5	Active	Preferred	Compliant	1	ea
MAXIM	MAX3072EESA+T	Active	Preferred	Compliant	1	ea
INTERNATIONAL RECTIFIER	IRLML6402TRPBF	Active	Preferred	Compliant	5	ea
NXP SEMICONDUCTORS	BC857B,215	Active	Preferred	Compliant	7	ea
NXP SEMICONDUCTORS	BC847B,215	Active	Preferred	Compliant	9	ea
ON SEMICONDUCTOR	BSS138LT1G	Active	Preferred	Compliant	9	ea
FAIRCHILD	FDS4685	Active	Preferred	Compliant	2	ea
AVX	04023J5R6BBSTR	Active	Preferred	Compliant	2	ea
MURATA	GRM155R60J105KE19D	Active	Preferred	Compliant	1	ea
SAMTEC	ASP-159124-02	Active	Preferred	Unknown	1	ea
DIODES INC	DFLR1200-7	Active	Preferred	Compliant	4	ea
ON SEMICONDUCTOR	NSR0130P2T5G	Active	Preferred	Compliant	9	ea
CLARE	CPC3703CTR	Active	Preferred	Compliant	4	ea
INTERNATIONAL RECTIFIER	IRF6216TRPBF	Active	Preferred	Compliant	1	ea
INTERNATIONAL RECTIFIER	IRLML2502GTRPBF	Active	Preferred	Compliant	5	ea
COILCRAFT	MSS1038-333MLD	Active	Preferred	Compliant	1	ea
INTERSIL	ICL3221EIAZ-T	Active	Preferred	Compliant	1	ea
SEIKO INSTRUMENTS	S-1142B30I-E6T1U	Active	Preferred	Compliant	2	ea
ON SEMICONDUCTOR	NCP3335ADM300R2G	Active	Preferred	Compliant	1	ea

ST MICROELECTRONICS	STM32F101ZET6TR	Active	Preferred	Compliant	1	ea
ATMEL	AT45DB321D-SU	Active	Preferred	Compliant	1	ea
NATIONAL SEMICONDUCTOR	LM3489MMX/NOPB	Active	Preferred	Compliant	1	ea
FAIRCHILD	NC7S32P5X	Active	Preferred	Compliant	1	ea
MAXIM	MAX6008BEUR+T	Active	Preferred	Compliant	1	ea
ON SEMICONDUCTOR	NCP305LSQ30T1G	Active	Preferred	Compliant	1	ea
ON SEMICONDUCTOR	NCP305LSQ30T3G	Active	Preferred	Compliant	1	ea
ST MICROELECTRONICS	STM6825RWY6F	Active	Preferred	Compliant	1	ea
CAL-CHIP	RM10J000CT-LF	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	7	ea
VISHAY	CRCW040210K0FKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW040210R0FKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW0402100KFKED	Active	Preferred	Compliant	3	ea
VISHAY	CRCW040212R1FKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW08051K00FKEA	Active	Preferred	Compliant	4	ea
VISHAY	CRCW0805162KFKEA	Active	Preferred	Compliant	1	ea
VISHAY	CRCW1206200RJNEA	Active	Preferred	Compliant	1	ea
VISHAY	CRCW040222R0JNED	Active	Preferred	Compliant	13	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea

ON SEMICONDUCTOR	BCP53-16T1G	Active	Preferred	Compliant	2	ea
ON SEMICONDUCTOR	BCP53-16T3G	Active	Preferred	Compliant	2	ea
VISHAY	Si4447DY-T1-GE3	Active	Preferred	Compliant	1	ea
DIODES INC	DDZ9702-7	Active	Preferred	Compliant	4	ea
ABRACON	ABS25-32.768KHZ-6-T	Active	Preferred	Compliant	1	ea
VISHAY	CRCW04022K55FKED	Active	Preferred	Compliant	1	ea
					1	
					1	
					1	ea

Reference Designators
C10,C69,C76 C13,C14,C15,C16,C35,C36,C43,C49,C56,C60,C62,C90
C67
C9
C1,C41,C45,C55,C58,C70
C44,C52,C57,C61
C73
C53
C65 C25,C26,C27,C28,C29,C30,C31,C32,C39,C40,C42,C46,C47,C48,C50,C51,C54,C59,C68,C71,C74,
C3,C75
C72,C78
C2,C5
C79
R145

R68,R78,R83,R98,R113,R139
R71,R72,R73,R76,R85,R88,R91,R95,R96,R97,R101,R106,R109,R116,R118,R121,R125
R8,R70,R74,R86,R89,R102,R105,R115,R119,R126,R130
R147
R4,R142
R77,R94,R112,R124,R128
R13,R23,R24,R34,R35,R66,R93,R108,R111,R129
R67
R17,R27,R36,R54,R55,R56,R57,R62,R104,R110,R133,R148
R21
R11,R12,R22
R20
R7,R18,R19,R30,R37,R75,R90,R92,R107,R120,R123,R131,R132,R134,R135
R146
R3,R6
R137
R138
D20
D19
U13

U4
F1
U12
Q3,Q10,Q16,Q18,Q29
Q4,Q5,Q22,Q26,Q32,Q37,Q40
Q9,Q11,Q14,Q23,Q24,Q28,Q33,Q38,Q42
Q6,Q7,Q8,Q12,Q17,Q19,Q34,Q44,Q46
Q41,Q49
C37,C38
C34
P1
D7,D10,D13,D16
D3,D6,D8,D9,D11,D12,D14,D15,D17
Q20,Q25,Q30,Q35
Q1
Q21,Q27,Q31,Q36,Q39
L1
U10
U2,U17
U1

U5
U6
U16
U27
U8
U3
U3
U9
R156
R9,R33,R52,R58,R100,R103,R143
R14,R141
R39,R82
R10,R50,R136
R31
R69,R84,R99,R114
R16
R25
R38,R40,R42,R43,R44,R45,R47,R48,R53,R80,R81,R117,R152
R79
R127

Q2,Q47
Q2,Q47
Q43
D2,D4,D5,D18
Y1
R51
(DWG1)
(DWG2)
(PCB1)