

SkyWave BOM

Item Number: BA100505-001
 Item Rev: (D) EC-1081
 Item Description: CCA ANTENNA BOARD

Level	Part Type	Find Num	Number	Rev	Description
0	Assembly - Circuit Card (BA)		BA100505-001	(D) EC-1081	CCA ANTENNA BOARD
1	COTS - Component (VARIOUS)	0	20000276	MC-1005	CAP CER X7R 10n0 10% 50V 0402
1	COTS - Component (VARIOUS)	0	20000332	MC-1005	CAP CER C0G 100p 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000355	MC-1005	CAP CER C0G 1n00 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000414	MC-1005	CAP CER C0G 470p 5% 50V 0402
1	COTS - Component (VARIOUS)	0	20000415	MC-1005	CAP CER X7R 15n0 10% 16V 0402
1	COTS - Component (VARIOUS)	0	20000478	MC-1005	CAP CER C0G 3p90 +/-0.1pF 50V 0402
1	COTS - Component (VARIOUS)	0	20000481	MC-1005	CAP CER C0G 1p00 +/-0.1pF 50V 0402
1	COTS - Component (VARIOUS)	0	20000513	MC-1005	CAP CER C0G 27p0 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	20000552	MC-1005	CAP CER X7R 10u0 10% 10V 0805
1	COTS - Component (VARIOUS)	0	20000586	MC-1005	CAP CER C0G 1p60 +/-0.1pF 50V 0402
1	COTS - Component (VARIOUS)	0	21000415	MC-1005	RES FILM 820R 5% 1/16W 0402
1	COTS - Component (VARIOUS)	0	21000454	MC-1005	RES FILM 20K0 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	25000208	MC-1005	CONN JACK IPX STR Au 1PIN

1	COTS - Component (VARIOUS)	0	35000014	MC-1005	ELE FLTR LOWPASS 1990MHz 0.7dB 1.6x0.8mm
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	CAP001352	MC-1049	CAP CER X5R 2.2uF 10% 10V 0603 SMT
1	COTS - Component (VARIOUS)	0	CAP001508	MC-1005	CAP 3p00 +/-0.1pF 50V C0G 0402
1	COTS - Component (VARIOUS)	0	CAP001511	MC-1005	CAP 150p 2% 50V COG 0402
1	COTS - Component (VARIOUS)	0	DIO001375	MC-1005	DIO SCHOTTKY 30V 100mA 200mW SOD923 SMT
1	COTS - Component (VARIOUS)	0	DIO001503	MC-1005	DIO PIN QUAD 15V 100MA SOT235
1	COTS - Component (VARIOUS)	0	ELE001509	MC-1005	ELE FLTR BP 1518-1576MHz IL=2.6dB 2W 11.0X3.70MM
1	COTS - Component (VARIOUS)	0	ELE001510	MC-1005	ELE FLTR BP 1626-1675MHz IL=2.8dB 2W 11.0X3.70MM
1	COTS - Component (VARIOUS)	0	HYB001500	MC-1005	HYB COUPLER 21dB 1626-1661MHz 0.25dB
1	COTS - Component (VARIOUS)	0	IND000092	MC-1005	IND SPRING 35n5 5% 4A
1	COTS - Component (VARIOUS)	0	IND000384	MC-1052	IND CER 3n90 +/-0.3nH 300mA 0402
1	COTS - Component (VARIOUS)	0	IND000385	MC-1052	IND CER 6n80 5% 300mA 0402
1	COTS - Component (VARIOUS)	0	IND000386	MC-1005	IND CER 22n0 5% 300mA 0402
1	COTS - Component (VARIOUS)	0	IND000482	MC-1005	IND CER 10n0 5% 300mA 0402
1	COTS - Component (VARIOUS)	0	IND001515	MC-1005	IND 2n20 ±0.3nH 300mA RF 0402
1	COTS - Component (VARIOUS)	0	IND001516	MC-1005	IND 18n0 5% 300mA RF 0402
1	COTS - Component (VARIOUS)	0	IND001517	MC-1005	IND 15n0 2% 560mA RF 0402

1	COTS - Component (VARIOUS)	0	IND001518	MC-1005	IND 27n0 5% 300mA RF 0402
1	COTS - Component (VARIOUS)	0	IND001520	MC-1005	IND 2n9 ±0.1nH 750mA RF 0402
1	COTS - Component (VARIOUS)	0	IND001521	MC-1029	IND 3n6 ±0.3nH 300mA RF 0402
1	COTS - Component (VARIOUS)	0	IND001522	MC-1029	IND 2n0 ±2% 1040mA RF 0402
1	COTS - Component (VARIOUS)	0	INT000079	MC-1005	IC LOW VOLTAGE DETECTOR 3.6V +/-2% SOT23
1	COTS - Component (VARIOUS)	0	INT000238	MC-1005	IC RF SWI SPDT L-BAND GaAs 500-2500MHz
1	COTS - Component (VARIOUS)	0	INT000498	MC-1005	IC RF SWI SPDT L/S-BAND GaAs 0.05-3.0GHz
1	COTS - Component (VARIOUS)	0	INT001531	MC-1005	IC LOW NOISE AMPLIFIER 900-3500 MHZ 17.9dB 0.97dB 6-UDFN
1	COTS - Component (VARIOUS)	0	INT001531	MC-1005	IC LOW NOISE AMPLIFIER 900-3500 MHZ 17.9dB 0.97dB 6-UDFN
1	COTS - Component (VARIOUS)	0	INT001534	MC-1005	IC LOGIC LDO REGULATOR LINEAR IN=0-6.5V OUT=3V 2% 200mA TSOT23-5
1	COTS - Component (VARIOUS)	0	INT001534	MC-1005	IC LOGIC LDO REGULATOR LINEAR IN=0-6.5V OUT=3V 2% 200mA TSOT23-5
1	COTS - Component (VARIOUS)	0	INT001541	MC-1005	IC POWER AMP 1.88-1.93GHz G=36dB 0.5W 12-LEAD PQFN
1	COTS - Component (VARIOUS)	0	INT001542	MC-1005	IC LINEAR CURRENT-SENSE AMP 1.8MHz G=+20V/V 28V SOT236
1	COTS - Component (VARIOUS)	0	INT001544	MC-1005	IC LINEAR OP-AMP 3MHz R-R I/O SINGLE SOT235
1	COTS - Component (VARIOUS)	0	INT001545	MC-1005	Vin=2.7-5.5V Vout=-1.5 to -5.2 V 10mA MSOP-8 CHARGE PUMP
1	COTS - Component (VARIOUS)	0	INT001546	MC-1005	VOLTAGE REFERENCE PROGRAMMABLE SHUNT Vin=6V Vout=6V 1.6mA SOT235
1	COTS - Component (VARIOUS)	0	INT001547	MC-1005	IC VOLTAGE REGULATOR LINEAR ADJUSTABLE 2% 500mA MSOP-8
1	COTS - Component (VARIOUS)	0	INT001548	MC-1005	IC SUPERVISOR RESET 5.5V 1.8% OD ACTIVE HIGH SOT236
1	COTS - Component (VARIOUS)	0	INT001549	MC-1005	IC VOLTAGE REGULATOR LINEAR Vin=1.5-6.0V Vout=1.3V 2% 200mA SOT235
1	COTS - Component (VARIOUS)	0	INT001550	MC-1005	IC VOLTAGE REGULATOR LINEAR Vin=16Vmax Vout=5V 2% 3A TO263-5

1	COTS - Component (VARIOUS)	0	INT001552	MC-1005	INT ATTENUATOR PCB 10dB 0.5dB 2.5GHz 0.04W 0404
1	COTS - Component (VARIOUS)	0	INT001553	MC-1005	IC LINEAR RF-DETECTING CONTROLLER 0.1- 2.5GHz +15dBm 6V MSOP-8
1	COTS - Component (VARIOUS)	0	INT001554	MC-1005	IC SENSOR TEMPERATURE -40°C/+125°C ±2°C Vout SOT23
1	COTS - Component (VARIOUS)	0	INT001555	MC-1005	IC LINEAR OP-AMP 3Mhz R-R I/O DUAL MSOP-8
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	RES000424	MC-1005	RES FILM 49R9 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES000425	MC-1046	RES 17R4 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES000489	MC-1005	RES FILM 100K 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES000500	MC-1005	RES FILM 200R 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES000503	MC-1005	RES FILM 1K00 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES000684	MC-1046	RES 287R 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES000778	MC-1005	RES FILM 15K0 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES001511	MC-1029	RES THICK FILM 470R 1% 1/16W 0402
1	COTS - Component (VARIOUS)	0	RES001525	MC-1005	RES 3M30 5% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001531	MC-1005	RES 27K0 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001532	MC-1005	RES 4K53 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001533	MC-1005	RES 750K 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001534	MC-1005	RES 150R 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001535	MC-1005	RES 330R 1% 1/16W THICK FILM 0402

1	COTS - Component (VARIOUS)	0	RES001538	MC-1005	RES 187K 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001539	MC-1005	RES 590K 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001540	MC-1005	RES 130R 1% 1/16W THICK FILM 0402
1	COTS - Component (VARIOUS)	0	RES001541	MC-1005	RES 0R100 0.5% 1/2W METAL STRIP 2010
1	COTS - Component (VARIOUS)	0	SWI000055	MC-1005	XSTR P-CH MOSFET PWR 20V 0.62A 540mW SOT23-3
1	COTS - Component (VARIOUS)	0	TRA000350	MC-1052	XSTR NPN BJT SiGe RF 110GHz 4.3V 35mA 150mW
1	COTS - Component (VARIOUS)	0	TRA001503	MC-1005	TRANSISTOR FET PHEMT 8V 2.9A CASE 466-03
1	COTS - Resistor (RES)	0	RES001565	MC-1005	RES 57k6 1% 1/16W THICK FILM 0402
1	COTS - Resistor (RES)	0	RES100017	MC-1052	RES 115R 1% 1/16W THICK FILM 0402
1	Drawing - Schematic	0	SC100505-000	C EC-1075	SCH ANTENNA BOARD
1	Drawing - Variant	0	BA100505-000	C EC-1075	CCA ANTENNA BOARD (DWG)
1	Part - Mechanical (MD)	0	MD700533	A MC-1020	SHIELD FENCE ANTENNA BOARD
1	Part - Printed Circuit Board (BD)	0	BD100505-001	B EC-1058	PCB ANTENNA BOARD

Created By: Victor Turco
Create Time: 12-Jul-2011 12:33:39 PM EST

Mfr.Name	Mfr.Part Number	Mfr.Part Lifecycle Phase	Preferred Status	RoHS	Qty	UOM
MULTIPLE	OPEN	Active	Preferred	Compliant	16	ea
MURATA	GRM1555C1H101JZ01D	Active	Preferred	Compliant	11	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	4	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
MURATA	GJM1555C1H3R9BB01D	Active	Preferred	Compliant	1	ea
MURATA	GJM1555C1H1R0BB01D	Active	Preferred	Compliant	2	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	16	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	6	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	6	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	4	ea
MURATA	GJM1555C1H1R6BB01D	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
VISHAY	CRCW040220K0FKED	Active	Preferred	Compliant	1	ea
ZARGO TECHNOLOGIES	IPX88-1	Active	Preferred	Compliant	1	ea

TDK CORPORATION	DEA161990LT-1182	Active	Preferred	Compliant	1	ea
ON SEMICONDUCTOR	BSS138LT1G	Active	Preferred	Compliant	2	ea
FAIRCHILD	FDS4685	Active	Preferred	Compliant	1	ea
AVX	04023J5R6BBSTR	Active	Preferred	Compliant	1	ea
MURATA	GRM188R61A225KE34D	Active	Preferred	Compliant	2	ea
MURATA	GJM1555C1H3R0BB01D	Active	Preferred	Compliant	1	ea
MURATA	GRM1555C1H151GA01D	Active	Preferred	Compliant	1	ea
ON SEMICONDUCTOR	NSR0130P2T5G	Active	Preferred	Compliant	1	ea
AVAGO TECHNOLOGIES	HSMP-3816-TR1G	Active	Preferred	Compliant	1	ea
RF MORECOM COREA	RM58B1547M44NC	Active	Preferred	Compliant	1	ea
RF MORECOM COREA	RM49B1650M44NC	Active	Preferred	Compliant	1	ea
AVX	CP0402P1643ENTR	Active	Preferred	Compliant	1	ea
COILCRAFT	B09TJLC	Active	Preferred	Compliant	2	ea
MURATA	LQG15HS3N9S02D	Active	Preferred	Compliant	1	ea
MURATA	LQG15HS6N8J02D	Active	Preferred	Compliant	1	ea
MURATA	LQG15HS22NJ02D	Active	Preferred	Compliant	1	ea
MURATA	LQG15HS10NJ02D	Active	Preferred	Compliant	2	ea
MURATA	LQG15HN2N2S02D	Active	Preferred	Compliant	1	ea
MURATA	LQG15HN18NJ02D	Active	Preferred	Compliant	1	ea
COILCRAFT	0402CS-15NXGLW	Active	Preferred	Compliant	1	ea

MURATA	LQG15HN27NJ02D	Active	Preferred	Compliant	1	ea
MURATA	LQW15AN2N9B00D	Active	Preferred	Compliant	2	ea
MURATA	LQG15HS3N6S02D	Active	Preferred	Compliant	1	ea
COILCRAFT	0402CS-2N0XGLW	Active	Preferred	Compliant	1	ea
TOREX SEMICONDUCTORS LTD	XC61CN3602MR	Active	Preferred	Compliant	1	ea
NEC ELECTRONICS CORPORATION	UPG2009TB-E3-A	Active	Preferred	Compliant	1	ea
NEC ELECTRONICS CORPORATION	UPG2214TB-E4-A	Active	Preferred	Compliant	1	ea
AVAGO TECHNOLOGIES	MGA-24106-TR1G	Active	Preferred	Compliant	2	ea
AVAGO TECHNOLOGIES	MGA-24106-TR2G	Active	Preferred	Compliant	2	ea
TEXAS INSTRUMENTS	TPS79930DDCR	Active	Preferred	Compliant	1	ea
TEXAS INSTRUMENTS	TPS79930DDCT	Active	Preferred	Compliant	1	ea
M/A-COM RF AND MICROWAVE COMPONENTS	MAAP-000082-TR3000	Active	Preferred	Compliant	1	ea
MAXIM	MAX4073TAUT+T	Active	Preferred	Compliant	1	ea
ANALOG DEVICES	AD8531ARTZ-REEL7	Active	Preferred	Compliant	2	ea
NATIONAL SEMICONDUCTOR	LM2687MM/NOPB	Active	Preferred	Compliant	1	ea
MAXIM	DS4303R+T&R	Active	Preferred	Compliant	1	ea
MICREL	MIC5219YMMTR	Active	Preferred	Compliant	1	ea
MAXIM	MAX6897AAZT+	Active	Preferred	Compliant	1	ea
TOREX SEMICONDUCTORS LTD	XC6215B132MR	Active	Preferred	Compliant	1	ea
EXAR	SPX29301T5-L-5-0/TR	Active	Preferred	Compliant	1	ea

PANASONIC	EXB-24ATAAR5X	Active	Preferred	Compliant	1	ea
MAXIM	MAX4002EUA+T	Active	Preferred	Compliant	1	ea
MICROCHIP	TC1046VNBTR	Active	Preferred	Compliant	1	ea
ANALOG DEVICES	AD8532ARMZ-REEL	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	13	ea
VISHAY	CRCW040210K0FKED	Active	Preferred	Compliant	12	ea
VISHAY	CRCW040249R9FKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW040217R4FKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW0402100KFKED	Active	Preferred	Compliant	3	ea
VISHAY	CRCW0402200RFKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW04021K00FKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW0402287RFKED	Active	Preferred	Compliant	4	ea
VISHAY	CRCW040215K0FKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW0402470RFKED	Active	Preferred	Compliant	1	ea
MULTIPLE	OPEN	Active	Preferred	Compliant	1	ea
VISHAY	CRCW040227K0FKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW04024K53FKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW0402750KFKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW0402150RFKED	Active	Preferred	Compliant	2	ea
VISHAY	CRCW0402330RFKED	Active	Preferred	Compliant	2	ea

VISHAY	CRCW0402187KFKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW0402590KFKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW0402130RFKED	Active	Preferred	Compliant	1	ea
VISHAY	WSL2010R1000DEA	Active	Preferred	Compliant	1	ea
INTERNATIONAL RECTIFIER	IRLML6302TRPBF	Active	Preferred	Compliant	2	ea
NEC ELECTRONICS CORPORATION	NESG3031M05-T1-A	Active	Preferred	Compliant	1	ea
FREESCALE	MRFG35003N6AT1	Active	Preferred	Compliant	1	ea
VISHAY	CRCW040257K6FKED	Active	Preferred	Compliant	1	ea
VISHAY	CRCW0402115RFKED	Active	Preferred	Compliant	2	ea
					1	
					1	
Genesis Technology USA, Inc.	MD700533	Active	Preferred	Compliant	1	ea
					1	ea

Reference Designators
C12,C21,C23,C24,C28,C41,C43,C45,C46,C66,C72,C73,C75,C77,C78,C79
C11,C13,C15,C19,C25,C31,C39,C67,C81,C83,C84
C2,C3,C5,C32
C17
C33
C54
C9,C10
C7,C8,C20,C42,C44,C49,C50,C51,C52,C53,C57,C58,C65,C68,C92,R28
C14,C29,C30,C74,C80,C90
C47,C48,C56,C64,C70,C71
C38,C87,C88,C89
C63
R41
R45
J5

FL3
Q6,Q7
Q9
C62
C35,C36
C60
C34
D3
U10
FL1
FL2
U21
L7,L10
L13
L14
L5
L3,L4
L16
L6
L11

L12
L1,L2
L9
L15
U13
U4
U6
U1,U2
U1,U2
U30
U30
U3
U5
U15,U16
U18
U26
U27
U28
U29
U32

U33
U14
U36
U35
R3,R11,R12,R20,R21,R25,R27,R29,R30,R36,R47 ,R55,R78
R10,R13,R42,R44,R46,R61,R77,R84,R85,R86,R8 7,R88
R4,R39
R15,R35
R48,R49,R64
R40,R50
R24,R31
R16,R18,R57,R60
R58
R43
R26
R1,R2
R9
R23
R33,R34
R37,R38

R59
R63
R66
R17
Q10,Q11
Q12
Q2
R80
R5,R6
(DWG1)
(DWG2)
SH1
(PCB1)