

SkyWave BOM

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

Level	Part Type	Find Num	Number	Rev
0	Assembly - Circuit Card (BA)		BA100505-001	(D) EC-1081
1	COTS - Component (VARIOUS)	0	20000276	MC-1005
1	COTS - Component (VARIOUS)	0	20000332	MC-1005
1	COTS - Component (VARIOUS)	0	20000355	MC-1005
1	COTS - Component (VARIOUS)	0	20000414	MC-1005
1	COTS - Component (VARIOUS)	0	20000415	MC-1005
1	COTS - Component (VARIOUS)	0	20000478	MC-1005
1	COTS - Component (VARIOUS)	0	20000481	MC-1005
1	COTS - Component (VARIOUS)	0	20000513	MC-1005
1	COTS - Component (VARIOUS)	0	20000542	MC-1005
1	COTS - Component (VARIOUS)	0	20000544	MC-1005
1	COTS - Component (VARIOUS)	0	20000552	MC-1005
1	COTS - Component (VARIOUS)	0	20000586	MC-1005
1	COTS - Component (VARIOUS)	0	21000415	MC-1005
1	COTS - Component (VARIOUS)	0	21000454	MC-1005
1	COTS - Component (VARIOUS)	0	25000208	MC-1005
1	COTS - Component (VARIOUS)	0	35000014	MC-1005
1	COTS - Component (VARIOUS)	0	43000080	MC-1005
1	COTS - Component (VARIOUS)	0	43000092	MC-1005
1	COTS - Component (VARIOUS)	0	CAP000518	MC-1005
1	COTS - Component (VARIOUS)	0	CAP001352	MC-1049
1	COTS - Component (VARIOUS)	0	CAP001508	MC-1005
1	COTS - Component (VARIOUS)	0	CAP001511	MC-1005
1	COTS - Component (VARIOUS)	0	DIO001375	MC-1005

1	COTS - Component (VARIOUS)	0	DIO001503	MC-1005
1	COTS - Component (VARIOUS)	0	ELE001509	MC-1005
1	COTS - Component (VARIOUS)	0	ELE001510	MC-1005
1	COTS - Component (VARIOUS)	0	HYB001500	MC-1005
1	COTS - Component (VARIOUS)	0	IND000092	MC-1005
1	COTS - Component (VARIOUS)	0	IND000384	MC-1052
1	COTS - Component (VARIOUS)	0	IND000385	MC-1052
1	COTS - Component (VARIOUS)	0	IND000386	MC-1005
1	COTS - Component (VARIOUS)	0	IND000482	MC-1005
1	COTS - Component (VARIOUS)	0	IND001515	MC-1005
1	COTS - Component (VARIOUS)	0	IND001516	MC-1005
1	COTS - Component (VARIOUS)	0	IND001517	MC-1005
1	COTS - Component (VARIOUS)	0	IND001518	MC-1005
1	COTS - Component (VARIOUS)	0	IND001520	MC-1005
1	COTS - Component (VARIOUS)	0	IND001521	MC-1029
1	COTS - Component (VARIOUS)	0	IND001522	MC-1029
1	COTS - Component (VARIOUS)	0	INT000079	MC-1005
1	COTS - Component (VARIOUS)	0	INT000238	MC-1005
1	COTS - Component (VARIOUS)	0	INT000498	MC-1005
1	COTS - Component (VARIOUS)	0	INT001531	MC-1005
1	COTS - Component (VARIOUS)	0	INT001531	MC-1005
1	COTS - Component (VARIOUS)	0	INT001534	MC-1005
1	COTS - Component (VARIOUS)	0	INT001534	MC-1005
1	COTS - Component (VARIOUS)	0	INT001541	MC-1005
1	COTS - Component (VARIOUS)	0	INT001542	MC-1005
1	COTS - Component (VARIOUS)	0	INT001544	MC-1005
1	COTS - Component (VARIOUS)	0	INT001545	MC-1005
1	COTS - Component (VARIOUS)	0	INT001546	MC-1005

1	COTS - Component (VARIOUS)	0	INT001547	MC-1005
1	COTS - Component (VARIOUS)	0	INT001548	MC-1005
1	COTS - Component (VARIOUS)	0	INT001549	MC-1005
1	COTS - Component (VARIOUS)	0	INT001550	MC-1005
1	COTS - Component (VARIOUS)	0	INT001552	MC-1005
1	COTS - Component (VARIOUS)	0	INT001553	MC-1005
1	COTS - Component (VARIOUS)	0	INT001554	MC-1005
1	COTS - Component (VARIOUS)	0	INT001555	MC-1005
1	COTS - Component (VARIOUS)	0	RES000395	MC-1005
1	COTS - Component (VARIOUS)	0	RES000406	MC-1005
1	COTS - Component (VARIOUS)	0	RES000424	MC-1005
1	COTS - Component (VARIOUS)	0	RES000425	MC-1046
1	COTS - Component (VARIOUS)	0	RES000489	MC-1005
1	COTS - Component (VARIOUS)	0	RES000500	MC-1005
1	COTS - Component (VARIOUS)	0	RES000503	MC-1005
1	COTS - Component (VARIOUS)	0	RES000684	MC-1046
1	COTS - Component (VARIOUS)	0	RES000778	MC-1005
1	COTS - Component (VARIOUS)	0	RES001511	MC-1029
1	COTS - Component (VARIOUS)	0	RES001525	MC-1005
1	COTS - Component (VARIOUS)	0	RES001531	MC-1005
1	COTS - Component (VARIOUS)	0	RES001532	MC-1005
1	COTS - Component (VARIOUS)	0	RES001533	MC-1005
1	COTS - Component (VARIOUS)	0	RES001534	MC-1005
1	COTS - Component (VARIOUS)	0	RES001535	MC-1005
1	COTS - Component (VARIOUS)	0	RES001538	MC-1005
1	COTS - Component (VARIOUS)	0	RES001539	MC-1005
1	COTS - Component (VARIOUS)	0	RES001540	MC-1005
1	COTS - Component (VARIOUS)	0	RES001541	MC-1005

1	COTS - Component (VARIOUS)	0	SWI000055	MC-1005
1	COTS - Component (VARIOUS)	0	TRA000350	MC-1052
1	COTS - Component (VARIOUS)	0	TRA001503	MC-1005
1	COTS - Resistor (RES)	0	RES001565	MC-1005
1	COTS - Resistor (RES)	0	RES100017	MC-1052
1	Drawing - Schematic	0	SC100505-000	C EC-1075
1	Drawing - Variant	0	BA100505-000	C EC-1075
1	Part - Mechanical (MD)	0	MD700533	A MC-1020
1	Part - Printed Circuit Board (BD)	0	BD100505-001	B EC-1058

Created By: Victor Turco
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Description	Mfr.Name
CCA ANTENNA BOARD	
CAP CER X7R 10n0 10% 50V 0402	MULTIPLE
CAP CER C0G 100p 5% 50V 0402	MURATA
CAP CER C0G 1n00 5% 50V 0402	MULTIPLE
CAP CER C0G 470p 5% 50V 0402	MULTIPLE
CAP CER X7R 15n0 10% 16V 0402	MULTIPLE
CAP CER C0G 3p90 +/-0.1pF 50V 0402	MURATA
CAP CER C0G 1p00 +/-0.1pF 50V 0402	MURATA
CAP CER C0G 27p0 5% 50V 0402	MULTIPLE
CAP CER X7R 1u00 10% 16V 0603	MULTIPLE
CAP CER X7R 100n 10% 16V 0402	MULTIPLE
CAP CER X7R 10u0 10% 10V 0805	MULTIPLE
CAP CER C0G 1p60 +/-0.1pF 50V 0402	MURATA
RES FILM 820R 5% 1/16W 0402	MULTIPLE
RES FILM 20K0 1% 1/16W 0402	VISHAY
CONN JACK IPX STR Au 1PIN	ZARGO TECHNOLOGIES
ELE FLTR LOWPASS 1990MHz 0.7dB 1.6x0.8mm	TDK CORPORATION
TRANSISTOR MOSFET N-CH 50V 200mA 20VGS 10Ω@2.75V SOT23	ON SEMICONDUCTOR
XSTR P-CH MOSFET 40V 8.2A 2.5W SO8	FAIRCHILD
CAP CER C0G RF 5p60 +/-0.1pF 25V 0402	AVX
CAP CER X5R 2.2uF 10% 10V 0603 SMT	MURATA
CAP 3p00 +/-0.1pF 50V C0G 0402	MURATA
CAP 150p 2% 50V COG 0402	MURATA
DIO SCHOTTKY 30V 100mA 200mW SOD923 SMT	ON SEMICONDUCTOR

DIO PIN QUAD 15V 100MA SOT235	AVAGO TECHNOLOGIES
ELE FLTR BP 1518-1576MHz IL=2.6dB 2W 11.0X3.70MM	RF MORECOM COREA
ELE FLTR BP 1626-1675MHz IL=2.8dB 2W 11.0X3.70MM	RF MORECOM COREA
HYB COUPLER 21dB 1626-1661MHz 0.25dB	AVX
IND SPRING 35n5 5% 4A	COILCRAFT
IND CER 3n90 +/-0.3nH 300mA 0402	MURATA
IND CER 6n80 5% 300mA 0402	MURATA
IND CER 22n0 5% 300mA 0402	MURATA
IND CER 10n0 5% 300mA 0402	MURATA
IND 2n20 ±0.3nH 300mA RF 0402	MURATA
IND 18n0 5% 300mA RF 0402	MURATA
IND 15n0 2% 560mA RF 0402	COILCRAFT
IND 27n0 5% 300mA RF 0402	MURATA
IND 2n9 ±0.1nH 750mA RF 0402	MURATA
IND 3n6 ±0.3nH 300mA RF 0402	MURATA
IND 2n0 ±2% 1040mA RF 0402	COILCRAFT
IC LOW VOLTAGE DETECTOR 3.6V +/-2% SOT23	TOREX SEMICONDUCTORS LTD
IC RF SWI SPDT L-BAND GaAs 500-2500MHz	NEC ELECTRONICS CORPORATION
IC RF SWI SPDT L/S-BAND GaAs 0.05-3.0GHz	NEC ELECTRONICS CORPORATION
IC LOW NOISE AMPLIFIER 900-3500 MHz 17.9dB 0.97dB 6-UDFN	AVAGO TECHNOLOGIES
IC LOW NOISE AMPLIFIER 900-3500 MHz 17.9dB 0.97dB 6-UDFN	AVAGO TECHNOLOGIES
IC LOGIC LDO REGULATOR LINEAR IN=0-6.5V OUT=3V 2% 200mA TSOT23-5	TEXAS INSTRUMENTS
IC LOGIC LDO REGULATOR LINEAR IN=0-6.5V OUT=3V 2% 200mA TSOT23-5	TEXAS INSTRUMENTS
IC POWER AMP 1.88-1.93GHz G=36dB 0.5W 12-LEAD PQFN	M/A-COM RF AND MICROWAVE COMPONENTS
IC LINEAR CURRENT-SENSE AMP 1.8MHz G=+20V/V 28V SOT236	MAXIM
IC LINEAR OP-AMP 3MHz R-R I/O SINGLE SOT235	ANALOG DEVICES
Vin=2.7-5.5V Vout=-1.5 to -5.2 V 10mA MSOP-8 CHARGE PUMP	NATIONAL SEMICONDUCTOR
VOLTAGE REFERENCE PROGRAMMABLE SHUNT Vin=6V Vout=6V 1.6mA SOT235	MAXIM

IC VOLTAGE REGULATOR LINEAR ADJUSTABLE 2% 500mA MSOP-8	MICREL
IC SUPERVISOR RESET 5.5V 1.8% OD ACTIVE HIGH SOT236	MAXIM
IC VOLTAGE REGULATOR LINEAR Vin=1.5-6.0V Vout=1.3V 2% 200mA SOT235	TOREX SEMICONDUCTORS LTD
IC VOLTAGE REGULATOR LINEAR Vin=16Vmax Vout=5V 2% 3A TO263-5	EXAR
INT ATTENUATOR PCB 10dB 0.5dB 2.5GHz 0.04W 0404	PANASONIC
IC LINEAR RF-DETECTING CONTROLLER 0.1- 2.5GHz +15dBm 6V MSOP-8	MAXIM
IC SENSOR TEMPERATURE -40°C/+125°C ±2°C Vout SOT23	MICROCHIP
IC LINEAR OP-AMP 3Mhz R-R I/O DUAL MSOP-8	ANALOG DEVICES
RES THICK FILM 0R 5% 1/16W 0402	MULTIPLE
RES FILM 10K0 1% 1/16W 0402	VISHAY
RES FILM 49R9 1% 1/16W 0402	VISHAY
RES 17R4 1% 1/16W THICK FILM 0402	VISHAY
RES FILM 100K 1% 1/16W 0402	VISHAY
RES FILM 200R 1% 1/16W 0402	VISHAY
RES FILM 1K00 1% 1/16W 0402	VISHAY
RES 287R 1% 1/16W THICK FILM 0402	VISHAY
RES FILM 15K0 1% 1/16W 0402	VISHAY
RES THICK FILM 470R 1% 1/16W 0402	VISHAY
RES 3M30 5% 1/16W THICK FILM 0402	MULTIPLE
RES 27K0 1% 1/16W THICK FILM 0402	VISHAY
RES 4K53 1% 1/16W THICK FILM 0402	VISHAY
RES 750K 1% 1/16W THICK FILM 0402	VISHAY
RES 150R 1% 1/16W THICK FILM 0402	VISHAY
RES 330R 1% 1/16W THICK FILM 0402	VISHAY
RES 187K 1% 1/16W THICK FILM 0402	VISHAY
RES 590K 1% 1/16W THICK FILM 0402	VISHAY
RES 130R 1% 1/16W THICK FILM 0402	VISHAY
RES 0R100 0.5% 1/2W METAL STRIP 2010	VISHAY

XSTR P-CH MOSFET PWR 20V 0.62A 540mW SOT23-3	INTERNATIONAL RECTIFIER
XSTR NPN BJT SiGe RF 110GHz 4.3V 35mA 150mW	NEC ELECTRONICS CORPORATION
TRANSISTOR FET PHEMT 8V 2.9A CASE 466- 03	FREESCALE
RES 57k6 1% 1/16W THICK FILM 0402	VISHAY
RES 115R 1% 1/16W THICK FILM 0402	VISHAY
SCH ANTENNA BOARD	
CCA ANTENNA BOARD (DWG)	
SHIELD FENCE ANTENNA BOARD	Genesis Technology USA, Inc.
PCB ANTENNA BOARD	

Mfr.Part Number	Mfr.Part Lifecycle Phase	Preferred Status	RoHS	Qty	UOM
OPEN	Active	Preferred	Compliant	16	ea
GRM1555C1H101JZ01D	Active	Preferred	Compliant	11	ea
OPEN	Active	Preferred	Compliant	4	ea
OPEN	Active	Preferred	Compliant	1	ea
OPEN	Active	Preferred	Compliant	1	ea
GJM1555C1H3R9BB01D	Active	Preferred	Compliant	1	ea
GJM1555C1H1R0BB01D	Active	Preferred	Compliant	2	ea
OPEN	Active	Preferred	Compliant	16	ea
OPEN	Active	Preferred	Compliant	6	ea
OPEN	Active	Preferred	Compliant	6	ea
OPEN	Active	Preferred	Compliant	4	ea
GJM1555C1H1R6BB01D	Active	Preferred	Compliant	1	ea
OPEN	Active	Preferred	Compliant	1	ea
CRCW040220K0FKED	Active	Preferred	Compliant	1	ea
IPX88-1	Active	Preferred	Compliant	1	ea
DEA161990LT-1182	Active	Preferred	Compliant	1	ea
BSS138LT1G	Active	Preferred	Compliant	2	ea
FDS4685	Active	Preferred	Compliant	1	ea
04023J5R6BBSTR	Active	Preferred	Compliant	1	ea
GRM188R61A225KE34D	Active	Preferred	Compliant	2	ea
GJM1555C1H3R0BB01D	Active	Preferred	Compliant	1	ea
GRM1555C1H151GA01D	Active	Preferred	Compliant	1	ea
NSR0130P2T5G	Active	Preferred	Compliant	1	ea

HSMP-3816-TR1G	Active	Preferred	Compliant	1	ea
RM58B1547M44NC	Active	Preferred	Compliant	1	ea
RM49B1650M44NC	Active	Preferred	Compliant	1	ea
CP0402P1643ENTR	Active	Preferred	Compliant	1	ea
B09TJLC	Active	Preferred	Compliant	2	ea
LQG15HS3N9S02D	Active	Preferred	Compliant	1	ea
LQG15HS6N8J02D	Active	Preferred	Compliant	1	ea
LQG15HS22NJ02D	Active	Preferred	Compliant	1	ea
LQG15HS10NJ02D	Active	Preferred	Compliant	2	ea
LQG15HN2N2S02D	Active	Preferred	Compliant	1	ea
LQG15HN18NJ02D	Active	Preferred	Compliant	1	ea
0402CS-15NXGLW	Active	Preferred	Compliant	1	ea
LQG15HN27NJ02D	Active	Preferred	Compliant	1	ea
LQW15AN2N9B00D	Active	Preferred	Compliant	2	ea
LQG15HS3N6S02D	Active	Preferred	Compliant	1	ea
0402CS-2N0XGLW	Active	Preferred	Compliant	1	ea
XC61CN3602MR	Active	Preferred	Compliant	1	ea
UPG2009TB-E3-A	Active	Preferred	Compliant	1	ea
UPG2214TB-E4-A	Active	Preferred	Compliant	1	ea
MGA-24106-TR1G	Active	Preferred	Compliant	2	ea
MGA-24106-TR2G	Active	Preferred	Compliant	2	ea
TPS79930DDCR	Active	Preferred	Compliant	1	ea
TPS79930DDCT	Active	Preferred	Compliant	1	ea
MAAP-000082-TR3000	Active	Preferred	Compliant	1	ea
MAX4073TAUT+T	Active	Preferred	Compliant	1	ea
AD8531ARTZ-REEL7	Active	Preferred	Compliant	2	ea
LM2687MM/NOPB	Active	Preferred	Compliant	1	ea
DS4303R+T&R	Active	Preferred	Compliant	1	ea

MIC5219YMMTR	Active	Preferred	Compliant	1	ea
MAX6897AAZT+	Active	Preferred	Compliant	1	ea
XC6215B132MR	Active	Preferred	Compliant	1	ea
SPX29301T5-L-5-0/TR	Active	Preferred	Compliant	1	ea
EXB-24ATAAR5X	Active	Preferred	Compliant	1	ea
MAX4002EUA+T	Active	Preferred	Compliant	1	ea
TC1046VNBTR	Active	Preferred	Compliant	1	ea
AD8532ARMZ-REEL	Active	Preferred	Compliant	1	ea
OPEN	Active	Preferred	Compliant	13	ea
CRCW040210K0FKED	Active	Preferred	Compliant	12	ea
CRCW040249R9FKED	Active	Preferred	Compliant	2	ea
CRCW040217R4FKED	Active	Preferred	Compliant	2	ea
CRCW0402100KFKED	Active	Preferred	Compliant	3	ea
CRCW0402200RFKED	Active	Preferred	Compliant	2	ea
CRCW04021K00FKED	Active	Preferred	Compliant	2	ea
CRCW0402287RFKED	Active	Preferred	Compliant	4	ea
CRCW040215K0FKED	Active	Preferred	Compliant	1	ea
CRCW0402470RFKED	Active	Preferred	Compliant	1	ea
OPEN	Active	Preferred	Compliant	1	ea
CRCW040227K0FKED	Active	Preferred	Compliant	2	ea
CRCW04024K53FKED	Active	Preferred	Compliant	1	ea
CRCW0402750KFKED	Active	Preferred	Compliant	1	ea
CRCW0402150RFKED	Active	Preferred	Compliant	2	ea
CRCW0402330RFKED	Active	Preferred	Compliant	2	ea
CRCW0402187KFKED	Active	Preferred	Compliant	1	ea
CRCW0402590KFKED	Active	Preferred	Compliant	1	ea
CRCW0402130RFKED	Active	Preferred	Compliant	1	ea
WSL2010R1000DEA	Active	Preferred	Compliant	1	ea

IRLML6302TRPBF	Active	Preferred	Compliant	2	ea
NESG3031M05-T1-A	Active	Preferred	Compliant	1	ea
MRFG35003N6AT1	Active	Preferred	Compliant	1	ea
CRCW040257K6FKED	Active	Preferred	Compliant	1	ea
CRCW0402115RFKED	Active	Preferred	Compliant	2	ea
				1	
				1	
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)