

PROJECT	2017-3047 (NOTECARRIER-M2-AA)
REVISION	14
SCHEMATIC	20173047_NOTECARRIER-M2-AA_V14
DATA	4 09 2020

# Blues Inc

Item	Quantit v	Reference	Part	MPN	Description	Temperatur e	Typ e	Package
1	1	1AHT1	W3796	W3796	ANTENNA CHIP LTE D=40X7X3 W3796 PULSE SMT	-40°. +85°	SMD	ANT-W3796
2	1	1AHT2	W3010	W3010	ANTENNA CHIP 1.575GHZ D=3.2X10X2 W3010 PULSE SMT	-40°. +85°	SMD	ANT-W3010
3	1	1BAT1	2464	2464	BATTERY HOLDER 2464 KEYSTONE		THT	BATHLD-2464-NO_MECH
4	1	1CS1	PCB V14 4L 35um		PCB NOTECARRIER-M2-AX V14 (75X65)mm 4L/50/5R ENIG TG150 sp=1.6mm Cu=35um (CONTROLLED IMPEDANCE)	TG150		
5	1	1C1	47uF16V-XSR		CHIP CERAMIC CAPACITOR 47uF 16V 20% XSR 1206		SMD	CS-C-1206
6	1	1C2	4.7uF6.3V-XSR		CHIP CERAMIC CAPACITOR 4.7uF 6.3V 20% XSR 0402		SMD	CS-C-0402
7	2	1C3,C4	10uF10V-XSR		CHIP CERAMIC CAPACITOR 10uF 10V 10% XSR 0603		SMD	CS-C-0603
8	6	1C5,C6,C9,C10,C16,C23	100nF16V		CHIP CERAMIC CAPACITOR 100nF 16V 10% X7R 0402		SMD	CS-C-0402
9	2	1C7,C8	10uF6.3V-XSR		CHIP CERAMIC CAPACITOR 10uF 6.3V 20% XSR 0402	-55°. +85°	SMD	CS-C-0402
10	1	1C11	10nF1kV		CHIP CERAMIC CAPACITOR 10nF 1000V 10% X7R 1206		SMD	CS-C-1206
11	3	1C17,C18,C19	33pF50V-C0G		CHIP CERAMIC CAPACITOR 33pF 50V 5% C0G 0402		SMD	CS-C-0402
12	1	1C20	0.5pF50V-C0G		CHIP CERAMIC CAPACITOR 0.5pF 50V ±0.25pF C0G 0402	-55°. +125°	SMD	CS-C-0402
13	1	1C21	1nF50V		CHIP CERAMIC CAPACITOR 1nF 50V 10% X7R 0402		SMD	CS-C-0402
14	1	1C22	1uF16V-XSR		CHIP CERAMIC CAPACITOR 1uF 16V 10% XSR 0402		SMD	CS-C-0402
15	1	1C24	3.3pF50V-C0G		CHIP CERAMIC CAPACITOR 3.3pF 50V 5% C0G 0402	-55°. +125°	SMD	CS-C-0402
16	2	1DS2,DS3	FSV1045V	FSV1045V	DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	-55°. +150°	SMD	TO277-3
17	1	1DS4	STPS3H100U	STPS3H100U	DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT		SMD	SMB
18	1	1F1	SF-0603F150-2	SF-0603F150-2	FAST BLOW FUSE 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT	-40°. +105°	SMD	FS-0603
19	1	1F2	3.5A032V	0603SPV350F130-2	FAST BLOW FUSE 3.5A 32V 0603 0603SPV350F130-2 LITTEL FUSE SMT	-55°. +125°	SMD	FS-0603
20	1	1J2	10118192-0002LF	10118192-0002LF	CONNECTOR USB F80P TPO MICRO-B C.S. 10118192-0002LF FCI SMT	30°. +80°	SMD	J-5-0065-FOS-USB10118192-NOF
21	1	1J5	NanoSIM - SF72S006VBAR2500	SF72S006VBAR2500	CONNECTOR NANOSIM 8P F80P PUSH-PUSH SF72S006VBAR2500 JAE ELECTRONICS SMT	25°. +85°	SMD	J-NANOSIM-SF72S006VBA
22	1	1J6	MDT420E01001		CONNECTOR M 2 75P M90P P=0.5 MDT420E01001 AMPHENOL SMT	-40°. +80°	SMD	J-75-0050-MOS-M2-E
23	2	1J7,J8	uFL-R-SMT-1-10	U FL-R-SMT-1(10)	CONNECTOR RF M U FL-R-SMT-1(10) HIROSE SMT	-40°. +90°	SMD	J-3-MDS-UFL
24	1	1J9	CES-122-01-T-S	CES-122-01-T-S	HEADER STRIP 22P F/D P=2.54 H=5.08 CES-122-01-T-S SAMTEC	-55°. +105	THT	J-22-0254-FDT-H0508 EDGE
25	1	1J10	CES-103-01-T-S	CES-103-01-T-S	HEADER STRIP 3P F/D P=2.54 H=5.08 CES-103-01-T-S SAMTEC	-55°. +105	THT	J-22-0254-FDT-H0508
26	1	1L1	XFL4020-222MEC	XFL4020-222MEC	INDUCTOR 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT	-40°. +125°	SMD	LS-XFL4020
27	1	1L2	1285AS-H-2R2M+P2	1285AS-H-2R2M+P2	INDUCTOR 2.2uH 1.5A 20% 0806 1285AS-H-2R2M+P2 MURATA SMT	-40°. +85°	SMD	LS-0806
28	1	1L3	0603CS-4N3XJLW	0603CS-4N3XJLW	INDUCTOR 4.3nH 0.7A 5% 0603 0603CS-4N3XJLW COILCRAFT SMT	-40°. +125°	SMD	LS-0603CS
29	1	1L4	0603CS-6N8XJLU	0603CS-6N8XJLU	INDUCTOR 6.8nH 0.7A 5% 0603 0603CS-6N8XJLU COILCRAFT SMT	-40°. +125°	SMD	LS-0603CS
30	1	1L5	LOW15AN7N5H00D	LOW15AN7N5H00D	INDUCTOR 7.5nH 0.57A 3% A FILO 0402 LOW15AN7N5H00D MURATA SMT	-55°. +125°	SMD	LS-0402
31	1	1OBJ1	9774025151R		ROUND STANDOFF STEEL 5.1X2.5 9774025151R W.E SMT		SMD	DIST-WASMSIM0250
32	1	1Q1	A03420		TRANSISTOR MOSFET N A03420 SOT-23 ALPHA-OMEGA SMT	-55°. +150°	SMD	SOT723
33	2	1RR1,RR2	100R/5%		RESISTOR NETWORK 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	-55°. +125°	SMD	RR-8X-1506
34	1	1R1	10M/5%		CHIP RESISTOR 10M 0402 1/8W 5%	-55°. +125°	SMD	RS-0402
35	1	1R4	82k		CHIP RESISTOR 82K 0402 1/16W 1%	-55°. +155°	SMD	RS-0402
36	1	1R5	1M		CHIP RESISTOR 1M 1206 1/4W 1%		SMD	RS-1206
37	3	1R12,R14,R15	22R		CHIP RESISTOR 22R 0402 1/16W 1%		SMD	RS-0603
38	1	1R16	15k		CHIP RESISTOR 15K 0402 1/16W 1%	-55°. +155°	SMD	RS-0402
39	1	1R18	200k		CHIP RESISTOR 200K 0402 1/16W 1%		SMD	RS-0402
40	1	1R21	1k		CHIP RESISTOR 1K 0402 1/16W 1%	-55°. +155°	SMD	RS-0402
41	1	1R22	100k		CHIP RESISTOR 100K 0402 1/16W 1%		SMD	RS-0402
42	1	1SW1	CJS-1200TA		SWITCH SLIDE SPDT ON-ON. CJS-1200TA NIDEC COPAL ELECTRONICS SMT	-40°. +85°	SMD	SW-CJS1200TA
43	1	1TVS1	SM6T6V8A		DIODE TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT		SMD	SMB
44	1	1TVS2	ESDLCV0M5-TP		DIODE TVS TRANSIL UNIDIR. 20W 5V ESDLCV0M5-TP SOT563 SMT	-65°. +150°	SMD	SOT666
45	1	1U1	TPS62748YFPT	TPS62748YFPT	IC TPS62748YFPT TEXAS DSBGA8 SMT	-40°. +85°	SMD	XFBGA8
46	1	1U2	MAX1722SELT	MAX1722SELT+T	IC MAX1722SELT+T MAXIM W-DFN6 SMT	-40°. +85°	SMD	WDFN6-0200X0200
47	1	1U5	BGA725L6E6327F TSA1	BGA725L6E6327F TSA1	IC BGA725L6E6327F TSA1 INFINEON TSLP-6 SMT	-40°. +125°	SMD	XFDNF6

61

## MECHANICAL

1	1	1ASS1	SCREW M2.5x4		DIN 912 M2.5x4 HEX SOCKET HEAD CAP SCREW, FULLY-THREADED SHAFT, A2 STAINLESS		THT	
2	2	1ASS2,ASS3	uFL 50mm		CABLE COAX uFL-uFL 415-0086-050 HIROSE DINCH CONNECTIVITY SOLUTIONS JOHNSON		THT	

3

## NOT MOUNTED

1	1	1C12	NU		CHIP CERAMIC CAPACITOR 10uF 25V XSR 10% 1206		SMD	CS-C-1206
2	1	1C13	NU		CHIP CERAMIC CAPACITOR 1uF 16V 10% XSR 0402		SMD	CS-C-0402
3	2	1C14,C15	NU		CHIP CERAMIC CAPACITOR 100nF 16V 10% X7R 0402		SMD	CS-C-0402
4	1	1DS5	NU	STPS3H100U	DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT		SMD	SMB
5	1	1DS6	NU	FSV1045V	DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	-55°. +150°	SMD	TO277-3
6	2	1FID1,FID2	TPS		FIDUCIAL		SMD	FIDUCIAL
7	1	1J1	NU	114020163	CONNECTOR GROVE 4P M/D P=2 114020163 SEEDSTUDIO SMT		SMD	J-4-0200-MDS-GROVE
8	2	1J3,J4	NU	B2B-PH-SM4-TBT(LF)(SN)	CONNECTOR PH 2P M/D P=2 B2B-PH-SM4-TBT(LF)(SN) JST SMT	-25°. +85°	SMD	J-2-0200-MDS-B2B-PH-SM4
9	2	1PAD1,PAD2	TPS		CASTELLATED EDGE VIAS		THT	PA0-THT-CAS-0100
10	1	1Q2	NU		TRANSISTOR MOSFET P B5584AKM,315 SOT883 SMT	-55°. +150°	SMD	UFDFN3
11	3	1R6,R8,R10	NU		CHIP RESISTOR 10K 0402 1/16W 1%	-55°. +125°	SMD	RS-0402
12	1	1R9	NU		CHIP RESISTOR 470R 0402 1/16W 1%		SMD	RS-0402
13	2	1R11,R13	NU		CHIP RESISTOR 100R 0402 1/16W 1%		SMD	RS-0402
14	2	1R17,R24	NU		CHIP RESISTOR 100K 0402 1/16W 1%		SMD	RS-0402
15	1	1R23	NU		CHIP RESISTOR 15K 0402 1/16W 1%	-55°. +155°	SMD	RS-0402
16	1	1U3	NU	BQ24210DQCT	IC BQ24210DQCT WSON10 TEXAS SMT	-40°. +85°	SMD	WSON10-EXP
17	1	1U4	NU	TXS0102DQER	IC TXS0102DQER TEXAS XFDNF8 SMT	-40°C. 85°C	SMD	XFDNF8