

PROJECT	2017-3047 (NOTECARRIER-M2-AL)
REVISION	14
SCHEMATIC	20173047_NOTECARRIER-M2-AL_V14
DATA	4 09 2020

Blues Inc

Item	Quantit v	Reference	Part	MPN	Description	Temperatur e	Typ e	Package
1	1	IAHT1	W3796	W3796	ANTENNA CHIP LTE D=40X7X3 W3796 PULSE SMT	-40°..+85°	SMD	ANT-W3796
2	1	IAHT2	W3010	W3010	ANTENNA CHIP 1.575GHZ D=3.2X 10X2 W3010 PULSE SMT	-40°..+85°	SMD	ANT-W3010
3	1	CS1	CS V14-4L 35um		C.S. NOTECARRIER-M2-AX V14 (75X69mm 4L50/SR ENIG TG150 ssp=1.6mm Cu=35um (CONTROLLED IMPEDANCE)	TG150		
4	1	C1	47u/16V-XSR		CHIP CERAMIC CAPACITOR 47uF 16V 20% XSR 1206		SMD	CS-C-1206
5	1	C2	4.7u/6.3V-XSR		CHIP CERAMIC CAPACITOR 4.7uF 6.3V 20% XSR 0402		SMD	CS-C-0402
6	2	C3,C4	10u/10V-XSR		CHIP CERAMIC CAPACITOR 10uF 10V 10% XSR 0603		SMD	CS-C-0603
7	6	CS,C6,C9,C10,C16,C23	100n/16V		CHIP CERAMIC CAPACITOR 100nF 16V 10% X7R 0402		SMD	CS-C-0402
8	2	C7,C8	10u/6.3V-XSR		CHIP CERAMIC CAPACITOR 10uF 6.3V 20% XSR 0402	-55°..+85°	SMD	CS-C-0402
9	1	C11	10n/1kV		CHIP CERAMIC CAPACITOR 10nF 1000V 10% X7R 1206		SMD	CS-C-1206
10	1	C12	10u/25V-XSR		CHIP CERAMIC CAPACITOR 10uF 25V XSR 10% 1206		SMD	CS-C-1206
11	2	C13,C22	1u/16V-XSR		CHIP CERAMIC CAPACITOR 1uF 16V 10% XSR 0402		SMD	CS-C-0402
12	3	C17,C18,C19	33p/50V-C0G		CHIP CERAMIC CAPACITOR 33pF 50V 5% C0G 0402		SMD	CS-C-0402
13	1	C20	0.5p/50V-C0G		CHIP CERAMIC CAPACITOR 0.5pF 50V ±0.25pF C0G 0402	-55°..+125°	SMD	CS-C-0402
14	1	C21	1n/50V		CHIP CERAMIC CAPACITOR 1nF 50V 10% X7R 0402		SMD	CS-C-0402
15	1	C24	3.3p/50V-C0G		CHIP CERAMIC CAPACITOR 3.3pF 50V 5% C0G 0402	-55°..+125°	SMD	CS-C-0402
16	3	DS2,DS3,DS6	FSV1045V	FSV1045V	DIODE SCHOTTKY 10A 45V FSV1045V T0277-3 SMT	-55°..+150°	SMD	T0277-3
17	2	DS4,DS5	STPS3H100U	STPS3H100U	DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT		SMD	SMB
18	1	F1	SF-0603F150-2		FAST BLOW FUSE 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT	-40°..+105°	SMD	FS-0603
19	1	F2	3.5A032V	0603SPV30F150-2	FAST BLOW FUSE 3.5A 32V 0603 0603SPV30F150-2 LITTEL FUSE SMT	-55°..+125°	SMD	FS-0603
20	1	J2	10118192-0002LF	10118192-0002LF	CONNECTOR USB F90° TIPO MICRO-B C.S. 10118192-0002LF FCI SMT	-30°..+80°	SMD	J-5-0005-FOS-USB10118192-NOF
21	2	J3,J4	B2B-PH-SM4-TBT(LF)(SN)	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
22	1	J5	NanoSIM - SF72S006VBAR2500	SF72S006VBAR2500	CONNECTOR NANOSIM 8P F90° PUSH PUSH SF72S006VBAR2500 JAE ELECTRONICS SMT	-25°..+85°	SMD	J-NANOSIM-SF72S006VBA
23	1	J6	MDT420E01001		CONNECTOR M 2 75P M90° P=0.5 MDT420E01001 AMPHENOL SMT	-40°..+80°	SMD	J-75-0050-MOS-M2-E
24	2	J7,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
25	1	J9	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
26	1	J10	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-3-0254-FDT-H0508
27	1	L1	XF4020-222MEC	XF4020-222MEC	INDUCTOR 2.2 uH 3.1A 20% XF4020-222MEC COILCRAFT SMT	-40°..+125°	SMD	LS-XFL4020
28	1	L2	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
29	1	L3	0603CS-4N3XJLW	0603CS-4N3XJLW	INDUCTOR 4.3nH 0.7A 5% 0603 0603CS-4N3XJLW COILCRAFT SMT	-40°..+125°	SMD	LS-0603CS
30	1	L4	0603CS-6N8XJLU	0603CS-6N8XJLU	INDUCTOR 6.8nH 0.7A 5% 0603 0603CS-6N8XJLU COILCRAFT SMT	-40°..+125°	SMD	LS-0603CS
31	1	L5	LQW15AN7N5H00D	LQW15AN7N5H00D	INDUCTOR 7.5nH 0.57A 3% A FLO 0402 LQW15AN7N5H00D MURATA SMT	-55°..+125°	SMD	LS-0402
32	1	OBJ1	9774025151R		ROUND STANDOFF STEEL 5.1X2.5 9774025151R W.E SMT		SMD	DIST-WASMSIM02050
33	1	Q1	A03420		TRANSISTOR MOSFET N A03420 SOT-23 ALPHA-OMEGA SMT	-55°..+150°	SMD	SOT23
34	2	RR1,RR2	100R/5%		RESISTOR NETWORK 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	-55°..+125°	SMD	RR-8X-1506
35	1	R1	10M/5%		CHIP RESISTOR 10M 0402 1/8W 5%	-55°..+125°	SMD	RS-0402
36	1	R4	82k		CHIP RESISTOR 82k 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
37	1	R5	1M		CHIP RESISTOR 1M 1206 1/4W 1%		SMD	RS-1206
38	2	R8,R10	10k		CHIP RESISTOR 10K 0402 1/16W 1%	-55°..+125°	SMD	RS-0402
39	1	R9	470R		CHIP RESISTOR 470R 0402 1/16W 1%		SMD	RS-0402
40	3	R12,R14,R15	22R		CHIP RESISTOR 22R 0603 1/16W 1%		SMD	RS-0603
41	1	R16	15k		CHIP RESISTOR 15K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
42	1	R22	100k		CHIP RESISTOR 100K 0402 1/16W 1%		SMD	RS-0402
43	1	R18	200k		CHIP RESISTOR 200K 0402 1/16W 1%		SMD	RS-0402
44	1	R21	1k		CHIP RESISTOR 1K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
45	1	SW1	CJS-1200TA		SWITCH SLIDE SPDT ON-ON. CJS-1200TA NIDEC COPAL ELECTRONICS SMT	-40°..+85°	SMD	SW-CJS1200TA
46	1	TVS1	SM6T6V8A		DIODE TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT		SMD	SMB
47	1	TVS2	ESDLC5V0M5-TP		DIODE TVS TRANSIL UNIDIR. 20W 5V ESDLC5V0M5-TP SOT563 SMT	-65°..+150°	SMD	SOT666
48	1	U1	TPS62748YFPT	TPS62748YFPT	IC TPS62748YFPT TEXAS DSBGA8 SMT	-40°..+85°	SMD	XFBGA8
49	1	U2	MAX1722SELT	MAX1722SELT+T	IC MAX1722SELT+T MAXIM W-DFN6 SMT	-40°..+85°	SMD	WDFN6-Q200X0200
50	1	U3	BQ24210DQCT	BQ24210DQCT	IC BQ24210DQCT WSON10 TEXAS SMT	-40°..+85°	SMD	WSON10-EXP
51	1	U4	TXS0102DQER	TXS0102DQER	IC TXS0102DQER TEXAS XFDFN8 SMT	-40°/C. 85°C	SMD	XFDFN8
52	1	U5	BGA72SL6E6327FTSA1	BGA72SL6E6327FTSA1	IC BGA72SL6E6327FTSA1 INFINEON TSLP-6 SMT	-40°..+125°	SMD	XFDFN6

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MECHANICAL

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

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NOT MOUNTED

1	1	BAT1	NU	2464	BATTERY HOLDER 2464 KEYSTONE		THT	BATHLD-2464-NO_MECH
2	2	FID1,FID2	TPS		FIDUCIAL		SMD	FIDUCIAL
3	2	PAD1,PAD2	TPS		CASTELLATED EDGE VIAS		THT	PAD-THT-CAS-0100
4	1	R6	NU		CHIP RESISTOR 10K 0402 1/16W 1%	-55°..+125°	SMD	RS-0402
5	1	J1	NU	114020163	CONNECTOR GROVE 4P M/D P=2 114020163 SEEDSTUDIO SMT		SMD	J-4-0200-MDS-GROVE
6	1	U4	NU	TXS0102DQER	IC TXS0102DQER TEXAS XFDFN8 SMT		SMD	XFDFN8
7	1	Q2	NU	B5S84AKM	TRANSISTOR MOSFET P B5S84AKM 315 SOT883 SMT		SMD	UFDFN3
8	2	C14,C15	NU		CHIP CERAMIC CAPACITOR 100nF 16V 10% X7R 0402		SMD	CS-C-0402
9	2	R11,R13	NU		CHIP RESISTOR 100R 0402 1/16W 1%		SMD	RS-0402
10	2	R17,R24	NU		CHIP RESISTOR 100K 0402 1/16W 1%		SMD	RS-0402
11	1	R23	NU		CHIP RESISTOR 15K 0402 1/16W 1%		SMD	RS-0402