

PROJECT	2017-3047 (NOTECARRIER-M2-AE)
REVISION	14
SCHEMATIC	20173047_NOTECARRIER-M2-AE_V14
DATA	4 09 2020

Blues Inc

Item	Quantity	Reference	Part	MPN	Description	Temperature	Type	Package
1	1	ANT1	W3796	W3796	ANTENNA CHIP LTE D=40X7X3 W3796 PULSE SMT	-40°..+85°	SMD	ANT-W3796
2	1	ANT2	W3010	W3010	ANTENNA CHIP 1.575GHZ D=3.2X10X2 W3010 PULSE SMT	-40°..+85°	SMD	ANT-W3010
3	1	CS1	CS V14 4L 35um	W3010	C.S. NOTECARRIER-M2-AX V14 (75X65mm 4L/ISO/SR ENIG TG150 spr=1.6mm Cu=35um (CONTROLLED IMPEDANCE)	TG150		
4	1	C1	47uF16V-XSR		CHIP CERAMIC CAPACITOR 47uF 16V 20% XSR 1206		SMD	CS-C-1206
5	1	C2	4.7uF6.3V-XSR		CHIP CERAMIC CAPACITOR 4.7uF 6.3V 20% XSR 0402		SMD	CS-C-0402
6	2	C3,C4	10uF10V-XSR		CHIP CERAMIC CAPACITOR 10uF 10V 10% XSR 0603		SMD	CS-C-0603
7	5	CS,C6,C9,C10,C23	100nF16V		CHIP CERAMIC CAPACITOR 100nF 16V 10% XTR 0402		SMD	CS-C-0402
8	2	C7,C8	10uF6.3V-XSR		CHIP CERAMIC CAPACITOR 10uF 6.3V 20% XSR 0402	-55°..+85°	SMD	CS-C-0402
9	1	C11	10nF16V		CHIP CERAMIC CAPACITOR 10nF 1600V 10% XTR 1206		SMD	CS-C-1206
10	1	C20	0.5pF50V-C0G		CHIP CERAMIC CAPACITOR 0.5pF 50V +0.25pF C0G 0402	-55°..+125°	SMD	CS-C-0402
11	1	C21	1nF50V		CHIP CERAMIC CAPACITOR 1nF 50V 10% XTR 0402		SMD	CS-C-0402
12	1	C22	1uF16V-XSR		CHIP CERAMIC CAPACITOR 1uF 16V 10% XSR 0402		SMD	CS-C-0402
13	1	C24	3.3pF50V-C0G		CHIP CERAMIC CAPACITOR 3.3pF 50V 5% C0G 0402	-55°..+125°	SMD	CS-C-0402
14	1	D54	FSV1045V	FSV1045V	DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	-55°..+150°	SMD	TO277-3
15	1	DS4	STPS3H100U	STPS3H100U	DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT		SMD	SMB
16	1	F1	SF-0603F150-2	SF-0603F150-2	FAST BLOW FUSE 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT	-40°..+105°	SMD	FS-0603
17	1	F2	3.5A/32V	0603SFV350F/32-2	FAST BLOW FUSE 3.5A 32V 0603 0603SFV350F/32-2 LITTELFUSE SMT	-55°..+125°	SMD	FS-0603
18	1	J2	10118192-0002LF	10118192-0002LF	CONNECTOR USB F80* TIPO MICRO-B C.S. 10118192-0002LF FCI SMT	-30°..+80°	SMD	FS-0603F150-2
19	1	J6	MDT420E01001		CONNECTOR M 2 75P M90* P=0.5 MDT420E01001 AMPHENOL SMT	-40°..+80°	SMD	J-75-0050-MOS-M2-E
20	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
21	1	L1	XFL4020-222MEC	XFL4020-222MEC	INDUCTOR 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT	-40°..+125°	SMD	LS-XFL4020
22	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
23	1	L3	0603CS-4N3XJLW	0603CS-4N3XJLW	INDUCTOR 4.3nH 0.7A 5% 0603 0603CS-4N3XJLW COILCRAFT SMT	-40°..+125°	SMD	LS-0603CS
24	1	L4	0603CS-6N8XJLU	0603CS-6N8XJLU	INDUCTOR 6.8nH 0.7A 5% 0603 0603CS-6N8XJLU COILCRAFT SMT	-40°..+125°	SMD	LS-0603CS
25	1	L5	LOW15AN7N5H00D	LOW15AN7N5H00D	INDUCTOR 7.5nH 0.57A 3% A FL0.0402 LOW15AN7N5H00D MURATA SMT	-55°..+125°	SMD	LS-0402
26	1	OBJ1	9774025151R		ROUND STANDOFF STEEL 5.1X2.5 9774025151R W.E SMT		SMD	DIST-WASMSIM0250
27	1	O1	AO3420	AO3420	TRANSISTOR MOSFET N AO3420 SOT-23 ALPHA-OMEGA SMT	-55°..+150°	SMD	SOT23
28	2	RR1,RR2	100R/5%		RESISTOR NETWORK 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	-55°..+125°	SMD	RR-8X-1506
29	1	R1	10M/5%		CHIP RESISTOR 10M 0402 1/8W 5%	-55°..+125°	SMD	RS-0402
30	1	R4	82k		CHIP RESISTOR 82K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
31	1	R5	1M		CHIP RESISTOR 1M 1206 1/4W 1%		SMD	RS-1206
32	1	R18	20k		CHIP RESISTOR 20K 0402 1/16W 1%		SMD	RS-0402
33	1	R21	1k		CHIP RESISTOR 1K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
34	1	R22	100k		CHIP RESISTOR 100K 0402 1/16W 1%		SMD	RS-0402
35	1	SW1	CJS-1200TA		SWITCH SLIDE SPDT ON-ON CJS-1200TA NIDEC COPAL ELECTRONICS SMT	-40°..+85°	SMD	SW-CJS1200TA
36	1	TVS1	SM6T6V8A		DIODE TVS TRANSIL UNIDIR. 600W 6 BV SM6T6V8A SMB SMT		SMD	SMB
37	1	U1	TPS62748YFPT	TPS62748YFPT	IC TPS62748YPT TEXAS DS80A8 SMT	-40°..+85°	SMD	XFBGA8
38	1	U2	MAX1722SELT-T	MAX1722SELT-T	IC MAX1722SELT-T MAXIM W-DFNE SMT	-40°..+85°	SMD	WDFNE-0200X0200
39	1	U5	BGA725L6E6327F7SA1	BGA725L6E6327F7SA1	IC BGA725L6E6327F7SA1 INFINEON TSLP-6 SMT	-40°..+125°	SMD	XFDNF6

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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
2	1	C12	NU		CHIP CERAMIC CAPACITOR 10uF 25V XSR 10% 1206			SMD	CS-C-1206
3	1	C13	NU		CHIP CERAMIC CAPACITOR 1uF 16V 10% XSR 0402			SMD	CS-C-0402
4	3	C14,C15,C16	NU		CHIP CERAMIC CAPACITOR 100nF 16V 10% XTR 0402			SMD	CS-C-0402
5	3	C17,C18,C19	NU		CHIP CERAMIC CAPACITOR 33pF 50V 5% C0G 0402			SMD	CS-C-0402
6	2	D53,D56	NU	FSV1045V	DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	-55°..+150°		SMD	TO277-3
7	1	D55	NU	STPS3H100U	DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT			SMD	SMB
8	2	FID1,FID2	TPS		FIDUCIAL			SMD	FIDUCIAL
9	1	J1	NU	114020163	CONNECTOR GROVE 4P M/D P=2 114020163 SEEDSTUDIO SMT			SMD	J-4-0200-MDS-GROVE
10	2	J3,J4	NU	B2B-PH-SM4-TBTLF(JSN)	CONNECTOR PH 2P M/D P=2 B2B-PH-SM4-TBTLF(JSN) JST SMT	-25°..+85°	SMD	J-2-0200-MDS-B2B-PH-SM4	
11	1	J5	NU	SF725006VBAR2500	CONNECTOR NANOSIM 8P F/90* PUSH-PUSH SF725006VBAR2500 JAE ELECTRONICS SMT	-25°..+85°	SMD	J-NANOSIM-SF725006VBA	
12	1	J9	NU	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
13	1	J10	NU	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	
14	2	PAD1,PAD2	TPS		CASTELLATED EDGE VIAS			THT	PAD-THT-CAS-0100
15	1	O2	NU		TRANSISTOR MOSFET P 85S84AKM 315 SOT883 SMT	-55°..+150°	SMD	UFDNF3	
16	3	R6,R8,R10	NU		CHIP RESISTOR 10K 0402 1/16W 1%	-55°..+125°	SMD	RS-0402	
17	1	R9	NU		CHIP RESISTOR 470R 0402 1/16W 1%		SMD	RS-0402	
18	2	R11,R13	NU		CHIP RESISTOR 100R 0402 1/16W 1%		SMD	RS-0402	
19	3	R12,R14,R15	NU		CHIP RESISTOR 22R 0603 1/16W 1%		SMD	RS-0603	
20	2	R16,R23	NU		CHIP RESISTOR 15K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402	
21	2	R17,R24	NU		CHIP RESISTOR 100K 0402 1/16W 1%		SMD	RS-0402	
22	1	TVS2	NU		DIODE TVS TRANSIL UNIDIR. 20W 5V ESDLC5V0M5-TP SOT563 SMT	-65°..+150°	SMD	SOT666	
23	1	U3	NU	BQ24210DQCT	IC BQ24210DQCT WSON10 TEXAS SMT	-40°..+85°	SMD	WSON10-EXP	
24	1	U4	NU	TXS0102DQER	IC TXS0102DQER TEXAS XFDNF8 SMT	-40°..+85°	SMD	XFDNF8	