

PROJECT	2017-3047 (NOTECARRIER-M2-AL)
REVISION	16
SCHEMATIC	20173047_NOTECARRIER-M2-AL_V16
DATE	15/11/2021

# Blues Inc

Item	Quantity	Reference	Part	MPN	Description	Temperature	Type	Package
1	1	ANT1	NN03-310	NN03-310	ANTENNA CHIP LTE/GNSS/BT D=30X31 NN03-310 IGNION SMT	40°..+125°	SMD	ANT-NN03310-LTE
2	1	ANT2	NN03-320	NN03-320	ANTENNA CHIP GPS/BT D=3X7X2 NN03-320 IGNION SMT	40°..+85°	SMD	ANT-NN03320-GPS
3	1	CS1	CS V16 4L 35um		C.S. NOTECARRIER-M2-AX V16 (75X65mm 4L/50/SR ENIG TG150 99±1.6mm Cu=35um) (CONTROLLED IMPEDANCE)	TG150		
4	1	C1	47uF16V-XSR	C3216XSR1E476M160AC	CHIP CAP CER. 47uF 16V 20% XSR 1206		SMD	CS-C-1206
5	1	C2	4.7uF6.3V-XSR	JMK105BBJ475MV-F	CHIP CAP CER. 4.7uF 6.3V 20% XSR 0402		SMD	CS-C-0402
6	2	C3,C4	10uF10V-XSR	GRM188R61A106KEB9D	CHIP CAP CER. 10uF 10V 10% XSR 0603		SMD	CS-C-0603
7	6	C5,C6,C9,C10,C16,C23	100nF16V	CC0402KRX7R7BB104	CHIP CAP CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
8	2	C7,C8	10uF6.3V-XSR	GRM155R60J106ME44D	CHIP CAP CER. 10uF 6.3V 20% X5R 0402	-55°..+85°	SMD	CS-C-0402
9	1	C11	10nF1kV	C1206C103KDRACLTJ	CHIP CAP CER. 10nF 1000V 10% X7R 1206		SMD	CS-C-1206
10	1	C12	10uF25V-XSR	CL31A106KAHNNE	CHIP CAP CER. 10uF 25V X5R 10% 1206		SMD	CS-C-1206
11	2	C13,C22	1uF16V-XSR	EMK105B1J05MVHF	CHIP CAP CER. 1uF 16V 10% X5R 0402		SMD	CS-C-0402
12	3	C17,C18,C19	33pF50V-COG	CC0402JRNPO9BN330	CHIP CAP CER. 33pF 50V 5% COG 0402		SMD	CS-C-0402
13	1	C21	1nF50V	CC0402C102KSRECAUTO	CHIP CAP CER. 1nF 50V 10% X7R 0402		SMD	FRACTUS-0404
14	1	C25	0.5pF50V-COG	GJM1555C1HRS0WB01	CHIP CAP CER. 0.5pF 50V ±0.05pF COG 0603	-55°..+125°	SMD	FRACTUS-0404
15	1	C26	1pF50V-COG	GJM1555C1H1R0WB01	CHIP CAP CER. 1pF 50V ±0.05pF COG 0603	-55°..+125°	SMD	FRACTUS-0404
16	1	C27	2.2pF50V-COG	GJM1555C1H2R2WB01	CHIP CAP CER. 2.2pF 50V ±0.05pF COG 0603	-55°..+125°	SMD	FRACTUS-0404
17	1	C28	4.6pF50V-COG	GJM1555C1H4R6WB01D	CHIP CAP CER. 4.6pF 50V ±0.05pF COG 0402	-55°..+125°	SMD	FRACTUS-0404
18	1	C29	1.1pF50V-COG	GJM1555C1H1R1WB01D	CHIP CAP CER. 1.1pF 50V ±0.05pF COG 0402	-55°..+125°	SMD	FRACTUS-0404
19	3	DS2,DS3,DS6	FSV1045V	FSV1045V	SCHOTTKY DIODE. 10A 45V FSV1045V TO277-3 SMT	-55°..+150°	SMD	TO277-3
20	2	DS4,DS5	STPS3H100U	STPS3H100U	SCHOTTKY DIODE 3A 100V STPS3H100U SMB SMT		SMD	SMB
21	1	F1	SF-0603F150-2	SF-0603F150-2	RAPID FUSE 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT	40°..+105°	SMD	FS-0603
22	1	F2	3.5A/32V	0603SFV350F/32-2	RAPID FUSE 3.5A 32V 0603 0603SFV350F/32-2 LITTELFUSE SMT	-55°..+125°	SMD	FS-0603
23	3	J3,J4,J12	B2B-PH-SM4-TBT(LF)(SN)	B2B-PH-SM4-TBT(LF)(SN)	CONN. PH 2P MID P=2 B2B-PH-SM4-TBT(LF)(SN) JST SMT	-25°..+85°	SMD	J-2-0200-MDS-B2B-PH-SM4
24	1	J5	NanoSIM - SF72S006VBAR2500	SF72S006VBAR2500	CONN. NANOSIM 8P F 90° PUSH-PUSH SF72S006VBAR2500 JAE ELECTRONICS SMT	-25°..+85°	SMD	J-NANOSIM-SF72S006VBA
25	1	J6	MDT420E01001	MDT420E01001	CONN. M.2 75P M/90° P=0.5 MDT420E01001 AMPHENOL SMT	40°..+80°	SMD	J-75-0050-MOS-M2-E
26	2	J7,J8	UFL-R-SMT-1-10	U.F.L-R-SMT-1(10)	CONN. RF M U.F.L-R-SMT-1(10) HIROSE SMT	40°..+90°	SMD	J-3-MDS-UFL
27	1	J9	12734	12734	STRIP 22P F/D P=2.54 H=5.08 12734 UCUON	-55..+105	THT	J-22-0254-FDT-H0508_EDGE
28	1	J10	00711	00711	STRIP 3P F/D P=2.54 H=5.08 00711 UCUON	-55..+105	THT	J-3-0254-FDT-H0508
29	1	J11	10118192-0002LF	10118192-0002LF	CONN. USB F/90° TIPO MICRO-B C.S. 10118192-0002LF FCI SMT	-30°..+80°	SMD	J-5-0065-FOS-USB10118192-NOF
30	2	J13,J14	BM04B-SRSS-TBT	BM04B-SRSS-TBT(LF)(SN)	CONN. SH 4P MID P=1 BM04B-SRSS-TBT(LF)(SN) JST SMT	-25°..+85°	SMD	J-4-0100-MDS-SH
31	1	L1	XFL4020-222MEC	XFL4020-222MEC	INDUCTOR 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT	40°..+125°	SMD	LS-XFL4020
32	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
33	1	L5	LQW15AN7NSH00D	LQW15AN7NSH00D	INDUCTOR 7.5nH 0.57A 3% A FILO 0402 LQW15AN7NSH00D MURATA SMT	-55°..+125°	SMD	FRACTUS-0404
34	1	L6	LQW18AN12NG80	LQW18AN12NG80	INDUCTOR 12nH 1.5A 2% 0603 LQW18AN12NG80 MURATA SMT	-55°..+125°	SMD	FRACTUS-0404
35	1	L7	LQW18AN10NG80D	LQW18AN10NG80D	INDUCTOR 10nH 1.6A 2% 0603 LQW18AN10NG80D MURATA SMT	-55°..+125°	SMD	FRACTUS-0404
36	1	L8	LQW18AN8N4G80D	LQW18AN8N4G80D	INDUCTOR 8.4nH 1.6A 2% 0603 LQW18AN8N4G80D MURATA SMT	-55°..+125°	SMD	FRACTUS-0404
37	1	L9	LQW15AN2N3G80D	LQW15AN2N3G80D	INDUCTOR 2.3nH 2.53A 2% 0402 LQW15AN2N3G80D MURATA SMT	-55°..+125°	SMD	FRACTUS-0404
38	1	OBJ1	9774025151R	9774025151R	STEEL SPACER 5.1X2.5 9774025151R W.E SMT		FAE	SMD
39	1	Q1	A03420	A03420	TRANSISTOR MOSFET N A03420 SOT-23 ALPHA-OMEGA SMT	-55°..+150°	SMD	SOT23
40	2	RR1,RR2	100R/5%	CAY16-101J8LF	ARRAY CHIP RES. 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	-55°..+125°	SMD	RR-8X-1506
41	1	R1	10M/5%	SGY31SETTP106J	CHIP RES. 10M 0402 1/8W 5%	-55°..+125°	SMD	RS-0402
42	1	R4	82k	CRCW040282K0FKTDBC	CHIP RES. 82K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
43	1	R5	1M	CRCW12061M00FKTABC	CHIP RES. 1M 1206 1/4W 1%		SMD	RS-1206
44	2	R8,R10	10k	RC0402FR-0710KL	CHIP RES. 10K 0402 1/16W 1%	-55°..+125°	SMD	RS-0402
45	1	R9	470R	CRCW0402470RFTKDBC	CHIP RES. 470R 0402 1/16W 1%		SMD	RS-0402
46	3	R12,R14,R15	22R	RC0603FR-0722RL	CHIP RES. 22R 0603 1/16W 1%		SMD	RS-0603
47	1	R16	15k	RC0402FR-0715KL	CHIP RES. 15K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
48	1	R18	200k	RC0402FR-07200KL	CHIP RES. 200K 0402 1/16W 1%		SMD	RS-0402
49	1	R21	1k	RC0402FR-071KL	CHIP RES. 1K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
50	1	R22	100k	RC0402FR-07100KL	CHIP RES. 100K 0402 1/16W 1%		SMD	RS-0402
51	4	R25,R27,R28,R29	0R	RC0603JR-070RL	CHIP RES. 0R 0603 1/16W 1%	-55°..+150°	SMD	FRACTUS-0404
52	1	SW1	CJS-1200TA	CJS-1200TA	SWITCH SLIDE ON-ON DA C.S. CJS-1200TA NIDEC COPAL ELECTRONICS SMT	40°..+85°	SMD	SW-CJS1200TA
53	1	TVS1	SM6T6V8A	SM6T6V8A	DIODE TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT		SMD	SMB
54	1	TVS2	ESDLC5V0M5-TP	ESDLC5V0M5-TP	DIODE TVS TRANSIL UNIDIR. 20W 5V ESDLC5V0M5-TP SOT563 SMT	-65°..+150°	SMD	SOT666
55	1	U1	TPS62748YFPT	TPS62748YFPT	I.C. TPS62748YFPT TEXAS DSBGA8 SMT	40°..+85°	SMD	XFBGA8
56	1	U2	MAX1722SELT	MAX1722SELT-T	I.C. MAX1722SELT-T MAXIM W-DFN6 SMT	40°..+85°	SMD	WDFN6-0200X0200
57	1	U3	BQ24210DOCT	BQ24210DOCT	I.C. BQ24210DOCT WSON10 TEXAS SMT	40°..+85°	SMD	WSON10-EXP
58	1	U5	BGA725L6E6327F7SA1	BGA725L6E6327F7SA1	I.C. BGA725L6E6327F7SA1 INFINEON TSLP-6 SMT	40°..+125°	SMD	XFDN6

82

## MECHANICAL

1	1	ASS1	PHILIPS SCREW	179-5691	SCREW TCEI 2.5X4 INOX DIN 7985 PHILIPS			
2	2	ASS2,ASS3	uFL 50mm	415-0086-050	COAX CABLE uFL-uFL 415-0086-050 HIROSE CINCH CONNECTIVITY SOLUTIONS JOHNSON			
3	1			MGKWK6500M	PNK ANTISTATIC ESD BAG 76X130mm MGKWK6500M			
4	1				BLUES LABEL			

## NOT MOUNTED

1	1	BAT1	NU	2464	BATTERY HOLDER 2464 KEYSTONE		THT	BATHLD-2464-NO_MECH
2	4	FID1,FID2,FID3,FID4	TPS		FIDUCIAL		SMD	FIDUCIAL
3	1	J2	NU	1051330001	CONN. USB F/D TIPO MICRO-B C.S. 1051330001 MOLEX SMT	-30°..+85°	SMD	J-5-0065-FDS-UUSB1051330001
4	2	PAD1,PAD2	TPS		CASTELLATED EDGE VIAS		THT	PAD-THT-CAS-0100
5	1	R6	NU		CHIP RES. 10K 0402 1/16W 1%	-55°..+125°	SMD	RS-0402
6	1	R26	NU		RES 0603		SMD	FRACTUS-0404
7	2	R30,R31	NU		RES 0603		SMD	RS-0603