

PROJECT	2017-3047 (NOTECARRIER-M2-B)
REVISION	14
SCHEMATIC	20173047_ NOTECARRIER-M2-B_V14
DATA	2022-09-05

Blues Inc.

Item	Reference	Part	MPN	MPN2	MPN3	MPN4	Description	Temperature	Pkg Type	Package
1	CS1	CS V14 2L 35um					C.S. NOTECARRIER-M2-B V14 (45.62X45.62)mm 2L/SO/SR ENIG TG150 sp=1.6mm Cu=35um	TG150		
2	C7	100n/16V					CHIP CAP.CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
2	C10	100n/16V					CHIP CAP.CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
2	C111	100n/16V					CHIP CAP.CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
2	C115	100n/16V					CHIP CAP.CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
2	C116	100n/16V					CHIP CAP.CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
3	C8	10u/6.3V-X5R					CHIP CAP.CER. 10uF 6.3V 20% X5R 0402	-55°..+85°	SMD	CS-C-0402
3	C9	10u/6.3V-X5R					CHIP CAP.CER. 10uF 6.3V 20% X5R 0402	-55°..+85°	SMD	CS-C-0402
4	C13	47u/16V-X5R					CHIP CAP.CER. 47uF 16V 20% X5R 1206		SMD	CS-C-1206
5	C14	4.7u/6.3V-X5R					CHIP CAP.CER. 4.7uF 6.3V 20% X5R 0402		SMD	CS-C-0402
6	C15	10u/10V-X5R					CHIP CAP.CER. 10uF 10V 10% X5R 0603		SMD	CS-C-0603
6	C16	10u/10V-X5R					CHIP CAP.CER. 10uF 10V 10% X5R 0603		SMD	CS-C-0603
7	C112	10n/1kV					CHIP CAP.CER. 10nF 1000V 10% X7R 1206		SMD	CS-C-1206
8	C117	4.7u/10V/X5R	CL10A475KP8NNNC				CHIP CAP.CER. 4.7uF 10V 10% X5R 0603		SMD	CS-C-0603
8	C118	4.7u/10V/X5R	CL10A475KP8NNNC				CHIP CAP.CER. 4.7uF 10V 10% X5R 0603		SMD	CS-C-0603
9	DSW1	DIP-SW-CHS-01TB					DIP SWITCH 1P/D BLACK CHS-01TB COPAL SMT	-40°..+85°	SMD	DSS-CHS-01TB
10	DS14	STPS3H100U	STPS3H100U				DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT		SMD	SMB
11	DS15	FSV1045V	FSV1045V				DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	-55°..+150°	SMD	TO277-3
12	F1	SF-0603F150-2	SF-0603F150-2				FUSE FAST 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT	-40°..+105°	SMD	FS-0603
13	F2	3.5A/32V	0603SFV350F/32-2				FUSE FAST 3.5A 32V 0603 0603SFV350F/32-2 LITTELFUSE SMT	-55°..+125°	SMD	FS-0603
14	J19	MICROUSB-B	10118192-0001LF				CONN. USB F/90° TYPE MICRO-B C.S. 10118192-0001LF FCI SMT	-30°..+85°	SMD	J-5-0065-FOS-MICROUSB10118192
15	J20	MDT420E01001					CONN. M.2 75P M/90° P=0.5 MDT420E01001 AMPHENOL SMT	-40°..+80°	SMD	J-75-0050-MOS-M2-E
16	J23	S2B-PH-SM4-K-TB(LF)(SN)	S2B-PH-SM4-K-TB(LF)(SN)	20404			CONN. PH 2P M/90° P=2 S2B-PH-SM4-K-TB(LF)(SN) JST SMT		SMD	J-2-0200-MOS-S2B
17	J24	SM04B-SRSS-TBT	SM04B-SRSS-TBT(LF)(SN)				CONN. SH 4P M/D P=1 SM04B-SRSS-TBT(LF)(SN) JST SMT	-25°..+85°	SMD	J-4-0100-MOS-SH
18	LD1	SML-P12WTT86R	SML-P12WTT86R				YELLOW LED DIODE SML-P12WTT86R ROHM 0402 SMT	-40°..+85°	SMD	LD-0402
19	L2	1285AS-H-2R2M=P2	1285AS-H-2R2M=P2				INDUTTANZA 2.2uH 1.5A 20% 0806 1285AS-H-2R2M=P2 MURATA SMT	-40°..+85°	SMD	LS-0806
20	L4	XFL4020-222MEC	XFL4020-222MEC				INDUTTANZA 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT	-40°..+125°	SMD	LS-XFL4020
21	Q2	AO3420					TRANSISTOR MOSFET N AO3420 SOT-23 ALPHA-OMEGA SMT	-55°..+150°	SMD	SOT23
22	RR1	100R/5%					ARRAY CHIP RES. 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	-55°..+125°	SMD	RR-8X-1506
22	RR2	100R/5%					ARRAY CHIP RES. 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	-55°..+125°	SMD	RR-8X-1506
23	R5	1k	CRCW02011K00FNED				CHIP RES. 1K 0201 1/20W 1%		SMD	RS-0201
24	R6	82k					CHIP RES. 82K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
25	R7	2.8k	CRCW02012K80FKED				CHIP RES. 2K8 0201 1/20W 1% 100PPM/°C	-55°..+125°	SMD	RS-0201
26	R10	10M/5%					CHIP RES. 10M 0402 1/8W 5%	-55°..+125°	SMD	RS-0402
27	R307	1M					CHIP RES. 1M 1206 1/4W 1%		SMD	RS-1206
28	R318	0R					CHIP RES. 0R 0402 1/16W 1%		SMD	RS-0402
28	R322	0R					CHIP RES. 0R 0402 1/16W 1%		SMD	RS-0402
28	R325	0R					CHIP RES. 0R 0402 1/16W 1%		SMD	RS-0402
29	R319	1k					CHIP RES. 1K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
30	TVS1	SM6T6V8A					DIODE TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT		SMD	SMB
31	U3	MAX17225ELT	MAX17225ELT+T				I.C. DC/DC MAX17225ELT+T MAXIM W-DFN6 SMT	-40°..+85°	SMD	WDFN6-0200X0200
32	U4	TPS62748VFPT	TPS62748VFPT				I.C. DC/DC TPS62748VFPT TEXAS DSBGA8 SMT	-40°..+85°	SMD	XFPGA8
33	U5	MCP73831-2AC/IMC	MCP73831-2AC/IMC				I.C. BATTERY MANAGEMENT MCP73831-2AC/IMC MICROCHIP DFN8 SMT	-40°..+85°	SMD	VDFDN8-EXP
			43							

MECHANICAL

34	ASS1	KNOB M2.5x4					SCREW TCEI 2.5X4 DIN 7985 PHILIPS		THT	
35	ASS2	M20-9991045	M20-9991045	10129378-910002BLF			STRIP 10P M/D P=2.54 M20-9991045 HARWIN		THT	
35	ASS3	M20-9991045	M20-9991045	10129378-910002BLF			STRIP 10P M/D P=2.54 M20-9991045 HARWIN		THT	
36	ASS4	213353-0100	213353-0100						THT	
37	OBJ1	9774025151R					DISTANZ. CIL. METALLO 5.1X2.5 9774025151R W.E SMT		SMD	DIST-WASMSIM0250
			5							

NOT MOUNTED

38	C113	NU	F930J107KAA				CHIP CAP.TANT. 100uF 6.3V 10% CASE A F930J107KAA AVX	-55°..+125°	SMD	CS-T-A
39	C114	NU	F930J227KBA				CHIP CAP.TANT. 220uF 6.3V 10% CASE B F930J227KBA AVX	-55°..+125°	SMD	CS-T-B
40	DS4	NU	BAV99BRVA-7				DIODE ARRAY 0.2A 75V BAV99BRVA-7 SOT563 DIODES SMT	-65°..+150°	SMD	SOT563
40	DS5	NU	BAV99BRVA-7				DIODE ARRAY 0.2A 75V BAV99BRVA-7 SOT563 DIODES SMT	-65°..+150°	SMD	SOT563
40	DS6	NU	BAV99BRVA-7				DIODE ARRAY 0.2A 75V BAV99BRVA-7 SOT563 DIODES SMT	-65°..+150°	SMD	SOT563
40	DS10	NU	BAV99BRVA-7				DIODE ARRAY 0.2A 75V BAV99BRVA-7 SOT563 DIODES SMT	-65°..+150°	SMD	SOT563
41	FID1	TPS					FIDUCIAL		SMD	FIDUCIAL
41	FID2	TPS					FIDUCIAL		SMD	FIDUCIAL
41	FID3	TPS					FIDUCIAL		SMD	FIDUCIAL
41	FID4	TPS					FIDUCIAL		SMD	FIDUCIAL
42	J21	NU	M20-9991045	10129378-910002BLF			STRIP 10P M/D P=2.54 M20-9991045 HARWIN		THT	J-10-0254-MDT
42	J22	NU	M20-9991045	10129378-910002BLF			STRIP 10P M/D P=2.54 M20-9991045 HARWIN		THT	J-10-0254-MDT
43	R323	NU					CHIP RES. 0402		SMD	RS-0402
43	R324	NU					CHIP RES. 0402		SMD	RS-0402
44	R326	NU					CHIP RES. 0R 0402 1/16W 1%		SMD	RS-0402
			15							