

PROJECT	2017-3047 (NOTECARRIER-M2-BH)
REVISION	14
SCHEMATIC	20173047_NOTECARRIER-M2-BH
DATA	07/11/2022

Blues Inc.

Item	Quantity	Reference	Part	MPN	MPN2	Description	Temperature	Type	Package
1	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	5	C7,C10,C111,C115,C116	100n/16V			CHIP CAP.CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
3	2	C8,C9	10u/6.3V-X5R			CHIP CAP.CER. 10uF 6.3V 20% X5R 0402	-55°..+85°	SMD	CS-C-0402
4	1	C13	47u/16V-X5R			CHIP CAP.CER. 47uF 16V 20% X5R 1206		SMD	CS-C-1206
5	1	C14	4.7u/6.3V-X5R			CHIP CAP.CER. 4.7uF 6.3V 20% X5R 0402		SMD	CS-C-0402
6	2	C15,C16	10u/10V-X5R			CHIP CAP.CER. 10uF 10V 10% X5R 0603		SMD	CS-C-0603
7	1	C112	10n/1kV			CHIP CAP.CER. 10nF 1000V 10% X7R 1206		SMD	CS-C-1206
8	2	C117,C118	4.7u/10V/X5R	CL10A475KP8NNNC		CHIP CAP.CER. 4.7uF 10V 10% X5R 0603		SMD	CS-C-0603
9	1	DSW1	DIP-SW-CHS-01TB			DIP SWITCH 1P/D BLACK CHS-01TB COPAL SMT	-40°..+85°	SMD	DSS-CHS-01TB
10	1	DS14	STPS3H100U	STPS3H100U		DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT		SMD	SMB
11	1	DS15	FSV1045V	FSV1045V		DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	-55°..+150°	SMD	TO277-3
12	1	F1	SF-0603F150-2	SF-0603F150-2		FUSE FAST 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT	-40°..+105°	SMD	FS-0603
13	1	F2	3.5A/32V	0603SFV350F/32-2		FUSE FAST 3.5A 32V 0603 0603SFV350F/32-2 LITTELFUSE SMT	-55°..+125°	SMD	FS-0603
14	1	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	1	J20	MDT420E01001			CONN. M.2 75P M/90° P=0.5 MDT420E01001 AMPHENOL SMT	-40°..+80°	SMD	J-75-0050-MOS-M2-E
16	2	J21,J22	M20-9991045	M20-9991045	10129378-910002BLF	STRIP 10P M/D P=2.54 M20-9991045 HARWIN		THT	J-10-0254-MDT
17	1	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
18	1	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
19	1	LD1	SML-P12WTT86R	SML-P12WTT86R		YELLOW LED DIODE SML-P12WTT86R ROHM 0402 SMT	-40°..+85°	SMD	LD-0402
20	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
21	1	L4	XFL4020-222MEC	XFL4020-222MEC		INDUCTOR 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT	-40°..+125°	SMD	LS-XFL4020
22	1	Q2	AO3420			TRANSISTOR MOSFET N AO3420 SOT-23 ALPHA-OMEGA SMT	-55°..+150°	SMD	SOT23
23	2	RR1,RR2	100R/5%			ARRAY CHIP RES. 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	-55°..+125°	SMD	RR-8X-1506
24	1	R5	1k	CRCW02011K00FNED		CHIP RES. 1K 0201 1/20W 1%		SMD	RS-0201
25	1	R6	82k			CHIP RES. 82K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
26	1	R7	2.8k	CRCW02012K80FKED		CHIP RES. 2K8 0201 1/20W 1% 100PPM/°C	-55°..+125°	SMD	RS-0201
27	1	R10	10M/5%			CHIP RES. 10M 0402 1/8W 5%	-55°..+125°	SMD	RS-0402
28	1	R307	1M			CHIP RES. 1M 1206 1/4W 1%		SMD	RS-1206
29	3	R318,R322,R325	0R			CHIP RES. 0R 0402 1/16W 1%		SMD	RS-0402
30	1	R319	1k			CHIP RES. 1K 0402 1/16W 1%	-55°..+155°	SMD	RS-0402
31	1	TVS1	SM6T6V8A			DIODE TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT		SMD	SMB
32	1	U3	MAX17225ELT	MAX17225ELT+T		I.C. DC/DC MAX17225ELT+T MAXIM W-DFN6 SMT	-40°..+85°	SMD	WDFN6-0200X0200
33	1	U4	TPS62748YFPT	TPS62748YFPT		I.C. DC/DC TPS62748YFPT TEXAS DSBGA8 SMT	-40°..+85°	SMD	XFBGA8
34	1	U5	MCP73831-2ACI/MC	MCP73831-2ACI/MC		I.C. BATTERY MANAGEMENT MCP73831-2ACI/MC MICROCHIP DFN8 SMT	-40°..+85°	SMD	VDFDN8-EXP

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MECHANICAL

1	1	ASS1	KNOB M2.5x4			SCREW TCEI 2.5X4 DIN 7985 PHILIPS		THT	
2	2	ASS2,ASS3	M20-9991045	M20-9991045		STRIP 10P M/D P=2.54 M20-9991045 HARWIN		THT	
3	1	ASS4	213353-0100	213353-0100				THT	
4	1	OBJ1	9774025151R			DISTANZ. CIL. METALLO 5.1X2.5 9774025151R W.E SMT		SMD	DIST-WASMSIM0250

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NOT MOUNTED

1	1	C113	NU	F930J107KAA		CHIP CAP.TANT. 100uF 6.3V 10% CASE A F930J107KAA AVX	-55°..+125°	SMD	CS-T-A
2	1	C114	NU	F930J227KBA		CHIP CAP.TANT. 220uF 6.3V 10% CASE B F930J227KBA AVX	-55°..+125°	SMD	CS-T-B
3	4	DS4,DS5,DS6,DS10	NU	BAV998RVA-7		DIODE ARRAY 0.2A 75V BAV998RVA-7 SOT563 DIODES SMT	-65°..+150°	SMD	SOT563
4	4	FID1,FID2,FID3,FID4	TPS			FIDUCIAL		SMD	FIDUCIAL
5	2	R323,R324	NU			CHIP RES. 0402		SMD	RS-0402
6	1	R326	NU			CHIP RES. 0R 0402 1/16W 1%		SMD	RS-0402