

PROJECT	2021-0248 (SWAN-F)
REVISION	7
SCHEMATIC	20210248_SWAN-F_V7
DATA	04/02/2022

Blues Inc

Item	Quantity	Reference	Part	MPN	Description	Temperature	Distributor	Type	Package	Database
1	1	CS1	CS V7 6L 35um		C.S. SWAN V7 (50.8x22.86)mm HAL 6L/SO(MATTE BLACK)/SR ENIG TG150 sp=1.6mm Cu(base)=18um	TG150	WE-ONLINE			
2	1	C1	10n/1Kv	C1206C103KDRACTU	CHIP CAP.CER. 10nF 1000V 10% X7R 1206		FAE	SMD	CS-C-1206	28470
3	2	C2,C3	100n/16V	CC0402KRX7R7BB104	CHIP CAP.CER. 100nF 16V 10% X7R 0402		FAE	SMD	CS-C-0402	22452
4	1	C4	47u/16V-X5R	EMK316BBJ476ML-T	CHIP CAP.CER. 47uF 16V 20% X5R 1206		FAE	SMD	CS-C-1206	38401
5	2	C5,C27	4.7u/6.3V-X5R	JMK105BBJ475MV-F	CHIP CAP.CER. 4.7uF 6.3V 20% X5R 0402		FAE	SMD	CS-C-0402	32468
6	2	C6,C7	10u/10V-X5R	GRM188R61A106KE69D	CHIP CAP.CER. 10uF 10V 10% X5R 0603		FAE	SMD	CS-C-0603	28168
7		C8,C11,C14,C17,C20,C22,C25,C26,C28,C30,C34,C35,C36,C37,C38,C39,C40,C41,C42,C43,C44,C45	100n/16V-X5R	GRM033R61C104KE84J	CHIP CAP.CER. 100nF 16V 10% X5R 0201 GRM033R61C104KE84J MURATA		FAE	SMD	CS-C-0201	48804
8	2	C9,C10	4.7u/10V/X5R	CL10A475KP8NNNC	CHIP CAP.CER. 4.7uF 10V 10% X5R 0603		FAE	SMD	CS-C-0603	33362
9	2	C12,C13	10u/6.3V-X5R	GRM155R60J106ME44D	CHIP CAP.CER. 10uF 6.3V 20% X5R 0402	-55°..+85°	FAE	SMD	CS-C-0402	39310
10	2	C15,C16	100u/6.3V	F930J107KAABE1	CHIP CAP.TANT. 100uF 6.3V 10% CASE A F930J107KAABE1 AVX	-55°..+125°	FAE	SMD	CS-T-A	47199
11	2	C18,C19	10u/10V-X5R	GRM188R61A106KE69D	CHIP CAP.CER. 10uF 10V 10% X5R 0603		FAE	SMD	CS-C-0603	28168
12	4	C21,C23,C29,C31	1u/16V-X5R	C0402B105K016T	CHIP CAP.CER. 1uF 16V 10% X5R 0402		FAE	SMD	CS-C-0402	37485
13	2	C24,C46	10n/16V-X5R	GRM033R61C103KA12D	CHIP CAP.CER. 10nF 16V 10% X5R 0201 GRM033R61C103KA12D MURATA		FAE	SMD	CS-C-0201	48805
14	2	C32,C33	4p/50V-C0G	GRM0335C1H4R0BA01D	CHIP CAP.CER. 4pF 50V ±0.1pF C0G 0201	-55°..+125°	FAE	SMD	CS-C-0201	50018
15	1	J1	10118192-0002LF	10118192-0002LF	CONN. USB F/90° TIPE MICRO-B C.S. 10118192-0002LF FCI SMT	-30°..+80°	FAE	SMD	J-5-0065-FOS-USB10118192-NOF	47781
16	1	J2	00820	00820	STRIP 16P M/D P=2.54 00820 4UCON	-55°..+105°	4UCON 00820	THT	J-16-0254-MDT	
17	1	J3	00815	00815	STRIP 12P M/D P=2.54 00815 4UCON	-55°..+105°	4UCON 00815	THT	J-12-0254-MDT	
18	1	J4	20404	20404	CONN. PH 2P M/90° P=2 20404 4UCON SMT		4UCON 20404	SMD	J-2-0200-MOS-S2B	
19	1	J5	21691	21691	STRIP 14P M/D DOUBLE ROW P=1.27 21691 4UCON SMT	-55°..+125°	4UCON 21691	SMD	J-7X2-0127-MDS-21691	
20	1	J6	BM04B-SRSS-TBT	BM04B-SRSS-TBT(LF)(SN)	CONN. SH 4P M/D P=1 BM04B-SRSS-TBT(LF)(SN) JST SMT	-25°..+85°	D-455-2874-1-ND	SMD	J-4-0100-MDS-SH	
21	1	LD1	SML-P12WTT86R	SML-P12WTT86R	YELLOW LED DIODE SML-P12WTT86R ROHM 0402 SMT	-40°..+85°	FAE	SMD	LD-0402	50019
22	1	LD2	SML-P12U2TT86R	SML-P12U2TT86R	RED LED DIODE SMLP12U2TT86R ROHM 0402 SMT	-40°..+85°	FAE	SMD	LD-0402	37804
23	1	L1	1285AS-H-2R2M=P2	1285AS-H-2R2M=P2	INDUCTOR 2.2uH 1.5A 20% 0806 1285AS-H-2R2M=P2 MURATA SMT	-40°..+85°	FAE	SMD	LS-0806	42807
24	1	L2	XFL4020-222MEC	XFL4020-222MEC	INDUCTOR 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT	-40°..+125°	FAE	SMD	LS-XFL4020	42400
25	1	L3	XFL4020-152MEC	XFL4020-152MEC	INDUCTOR 1.5 uH 4.1A 20% 4X4 XFL4020-152MEC COILCRAFT SMT	-40°..+125°	FAE	SMD	LS-XFL4020	40355
26	2	PB1,PB3	PB-SKRPADE010	SKRPADE010	BUTTON 16V 0.5A 4.2X3.2 SPST SKRPADE010 ALPS SMT	-20°..+70°	FAE	SMD	PB-SKRPA	39130
27	1	PB2	PB-SKRPADE010	SKRPABE010	BUTTON 16V 0.5A 4.2X3.2 SPST SKRPADE010 ALPS SMT	-20°..+70°		SMD	PB-SKRPA	
28	1	Q1	DMN62D0UW-7	DMN62D0UW-7	TRANSISTOR MOSFET N DMN62D0UW-7 SOT-323 DIODES SMT	-55°..+150°	FAE	SMD	SOT323	41196
29	1	R1	1M	CRCW12061M00FKTABC	CHIP RES. 1M 1206 1/4W 1%		FAE	SMD	RS-1206	28883
30	2	R2,R24	10M	RK73H1HTTC1005F	CHIP RES. 10M 0201 1/20W 1%	-55°..+125°	FAE	SMD	RS-0201	37017
31	2	R4,R38	0R	RC0803JR-070RL	CHIP RES. 0R 0603 1/16W 1%	-55°..+150°	FAE	SMD	RS-0603	15541
32	2	R5,R27	1k	CRCW02011K00FNED	CHIP RES. 1K 0201 1/20W 1%		FAE	SMD	RS-0201	39325
33	1	R6	1M	RC0201FR-071ML	CHIP RES. 1M 0201 1/20W 1%		FAE	SMD	RS-0201	36900
34	1	R7	2.8k	CRCW02012K80FKED	CHIP RES. 2K8 0201 1/20W 1% 100PPM°C	-55°..+125°		SMD	RS-0201	
35	1	R8	1k	RC0402FR-071KL	CHIP RES. 1K 0402 1/16W 1%	-55°..+155°	FAE	SMD	RS-0402	25126
36	1	R9	82k	CRCW020182K0FKED	CHIP RES. 82K 0201 1/20W 1% 100PPM°C	-55°..+125°	FAE	SMD	RS-0201	50021
37	1	R11	180k	MR02X1803FAL	CHIP RES. 180K 0201 1/20W 1% 100PPM°C	-55°..+125°	FAE	SMD	RS-0201	50022
38	10	R12,R28,R29,R30,R31,R37,R40,R41,R42,R43	10k	MC0201L6F1002SE	CHIP RES. 10K 0201 1/20W 1%		FAE	SMD	RS-0201	37016
39	1	R13	8.2M	CRCW02018M20FNED	CHIP RES. 8M2 0201 1/20W 1% 100PPM°C	-55°..+125°		SMD	RS-0201	
40	1	R39	4.3M	RK73H1HTTC4304F	CHIP RES. 4M3 0201 1/20W 1% 100PPM°C	-55°..+125°		SMD	RS-0201	
41	1	TVS1	SM6T6V8A	SM6T6V8A	DIODE TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT		FAE	SMD	SMB	14165
42	2	TVS2,TVS3	ESD5Z3.3T1G	ESD5Z3.3T1G	DIODE TVS TRANSIL UNIDIR. 158W 14.1V ESD5Z3.3T1G SOD-523 SMT	-55°..+150°	FAE	SMD	SOD523	40424
43	1	U1	TPS62748YFPT	TPS62748YFPT	I.C. DC/DC CONVERTER TPS62748YFPT TEXAS DSBGA8 SMT	-40°..+85°	FAE	SMD	XFBGA8	42813
44	1	U2	TPS63020DSJR	TPS63020DSJR	I.C. DC/DC CONVERTER TPS63020DSJR TEXAS VSON14 SMT	-40°..+85°	FAE	SMD	IC-TPS6302x	42016
45	1	U3	MCP73831-2ACI/MC	MCP73831-2ACI/MC	I.C. BATTERY MANAGEMENT MCP73831-2ACI/MC MICROCHIP DFN8 SMT	-40°..+85°	FAE	SMD	VDFDN8-EXP	36957
46	1	U4	MAX17225ELT	MAX17225ELT+T	I.C. DC/DC CONVERTER MAX17225ELT+T MAXIM W-DFN6 SMT	-40°..+85°	FAE	SMD	WDFN6-0200X0200	42404
47	1	U5	AP2139AK-3.3TRG1	AP2139AK-3.3TRG1	I.C. LDO AP2139AK-3.3TRG1 DIODES SOT23-5 SMT	-40°..+85°	FAE	SMD	SOT23-5	42017
48	1	U6	STM32L4R5ZIY6	STM32L4R5ZIY6	I.C. STM32L4SSZIY6 ST WLCSP144 SMT	-40°..85°	FAE	SMD	WLCSP144	44626
49	6	U7,U8,U9,U10,U12,U13	MAX40203ANS+T	MAX40203ANS+	I.C. IDEAL DIODE MAX40203ANS+ MAXIM WLP4 SMT	-40°..+125°	FAE	SMD	WLBGA4	50025
50	1	Y1	ABS06-107-32.768KHZ-T	ABS06-107-32.768KHZ-T	CRYSTAL 32.768KHz 4pF 20ppm D=2x1.2 ABS06-107-32.768KHZ-T ABRACON SMT	-40°..+85°	FAE	SMD	Y-ABS06	42406
102							10			

NOT MOUNTED

1	2	FID1,FID2	TPS		FIDUCIAL		FAE	SMD	FIDUCIAL	
2	64	PAD1,PAD2,PAD3,PAD4,PAD5,PAD6,PAD7,PAD8,PAD9,PAD10,PAD11,PAD12,PAD13,PAD14,PA D15,PAD16,PAD17,PAD18,PAD19,PAD20,PAD21,PAD22,PAD23,PAD24,PAD25,PAD26,PAD27,P AD28,PAD29,PAD30,PAD31,PAD32,PAD33,PAD34,PAD35,PAD36,PAD37,PAD38,PAD39,PAD40, PAD41,PAD42,PAD43,PAD44,PAD45,PAD46,PA D47,PAD48,PAD49,PAD50,PAD51,PAD52,PAD53,PAD54,PAD55,PAD56,PAD57,PAD58,PAD59,P AD60,PAD61,PAD62,PAD63,PAD64	TPS		CASTELLATED EDGE VIAS		FAE	THT	PAD-THT-CAS-0050	
3	1	R3	NU	RC0603JR-070RL	CHIP RES. 0R 0603 1/16W 1%	-55°..+150°	FAE	SMD	RS-0603	15541
4	1	R25	NU	MC0201L6F1002SE	CHIP RES. 10K 0201 1/20W 1%		FAE	SMD	RS-0201	37016