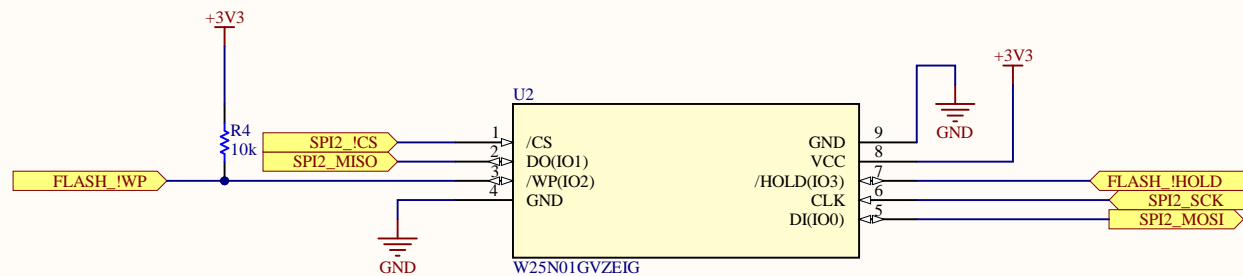
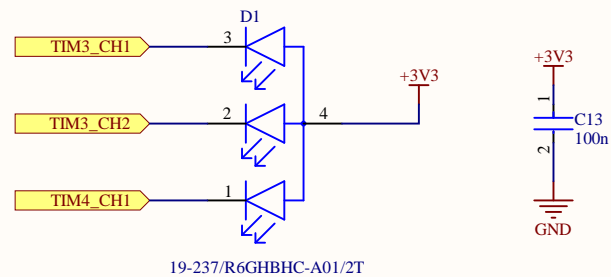


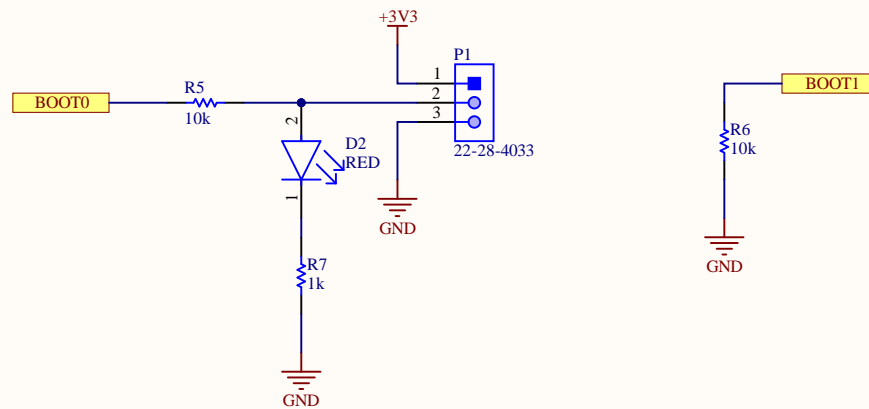
Flash Memory



RGB LED

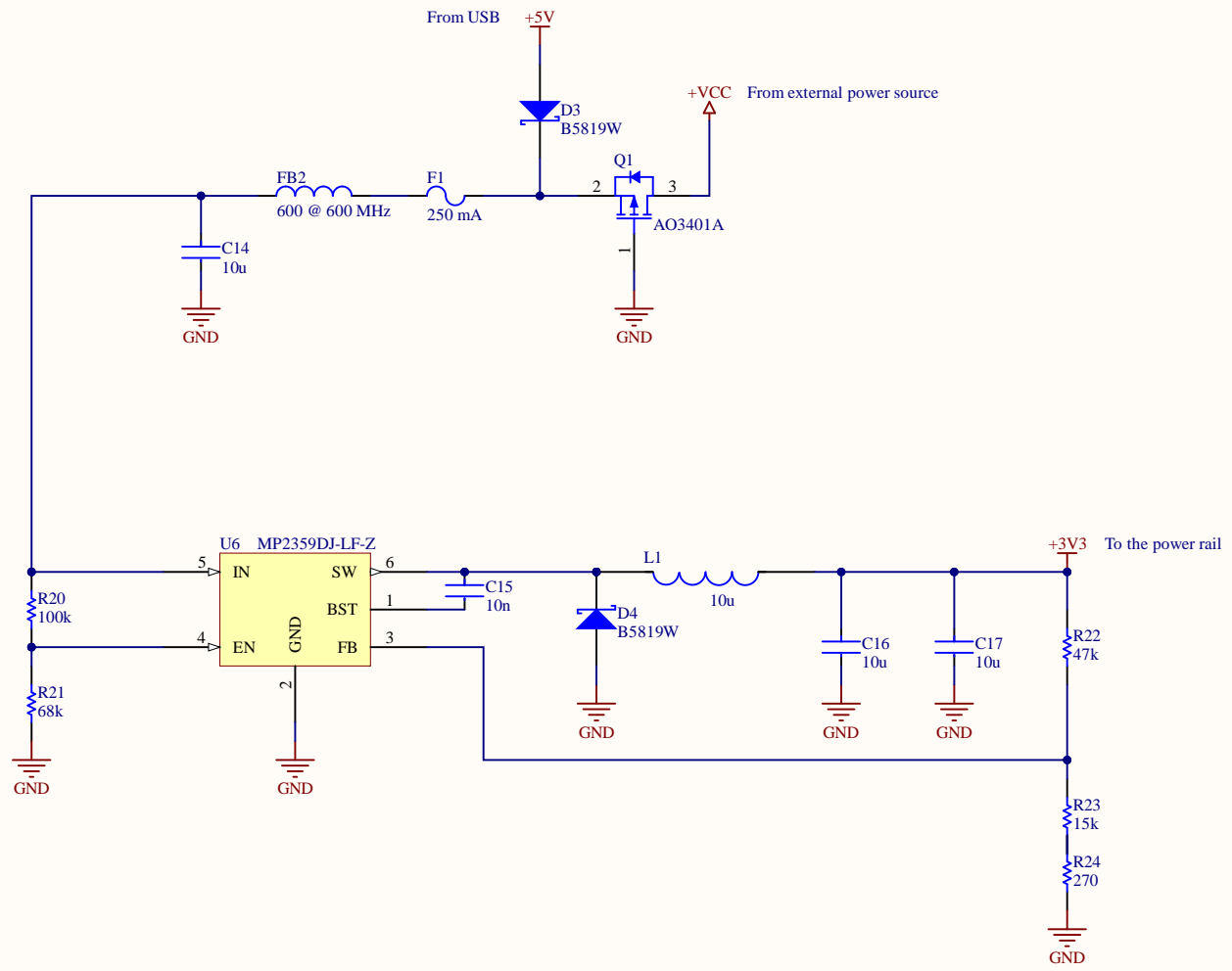


BOOT0



Title		
Size	Number	Revision
A4		
Date:	11/22/2020	Sheet of
File:	D:\garri\...\BootMemory.SchDoc	Drawn By:

Step-down Converter



Title		
Size	Number	Revision
A4		
Date:	11/22/2020	Sheet of
File:	D:\garri\...\downConverter.SchDoc	Drawn By:

1



3



B

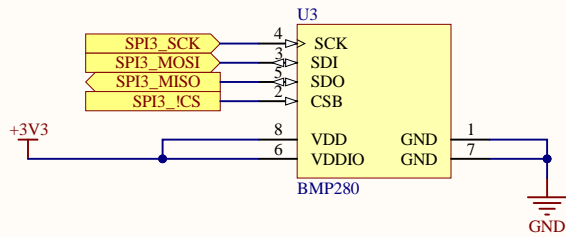


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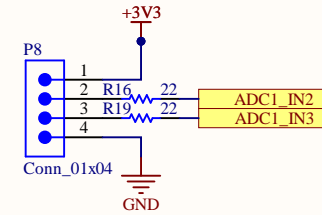
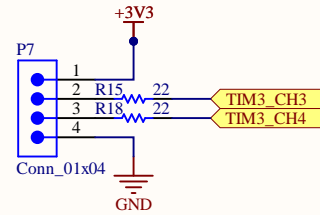
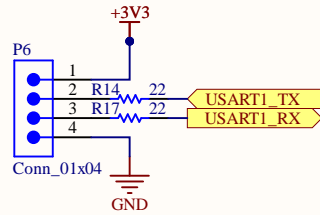
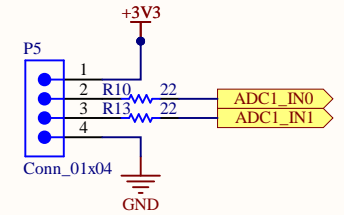
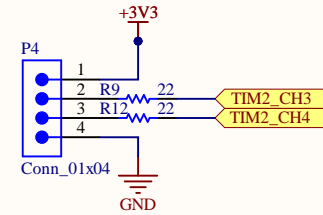
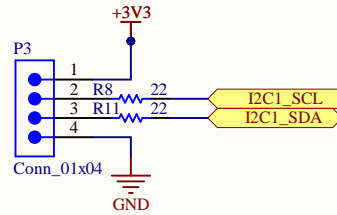
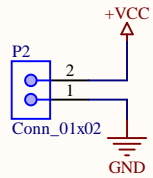
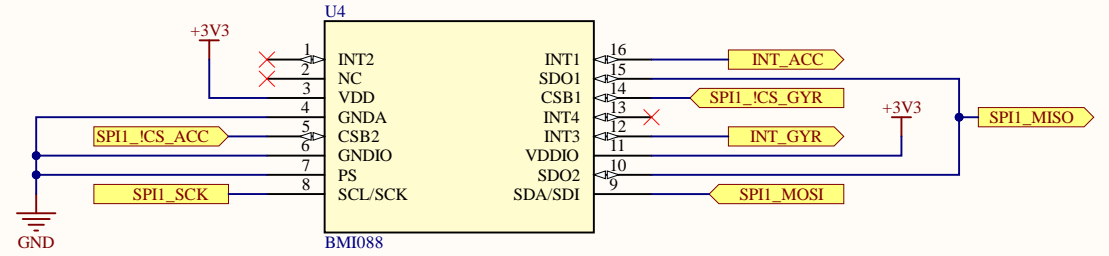
D

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C	<div>Flight Controller F4FlightController.SchDoc</div> <div></div>	<div>Step Down Converter downConverter.SchDoc</div> <div></div>	
D			<div>Title</div> <div><div>Size A4</div><div>Number</div><div>Revision</div></div> <div><div>Date: 11/22/2020</div><div>Sheet of</div></div> <div><div>File: D:\garri\...\Index.SchDoc</div><div>Drawn By:</div></div>
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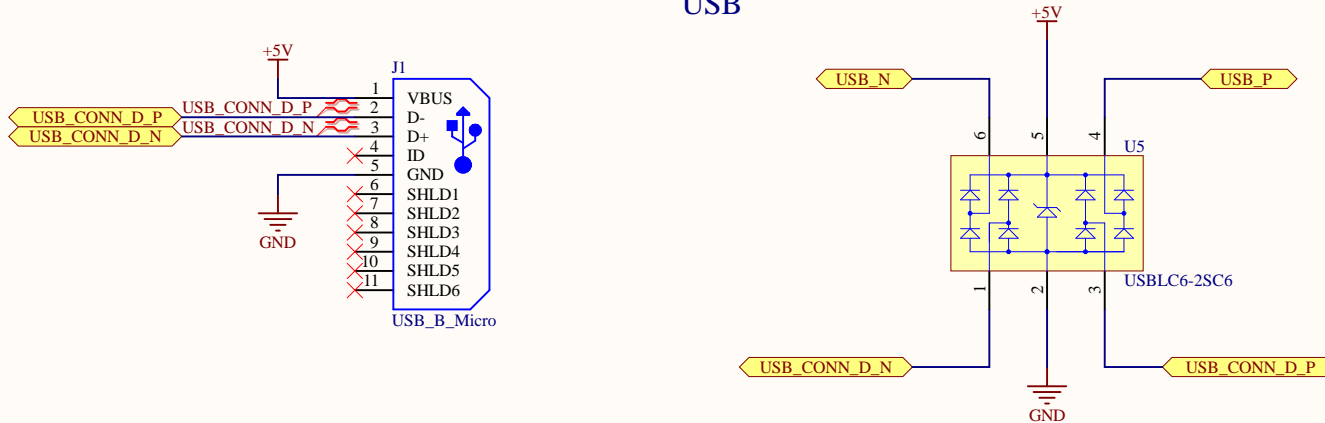
Barometric Pressure Sensor



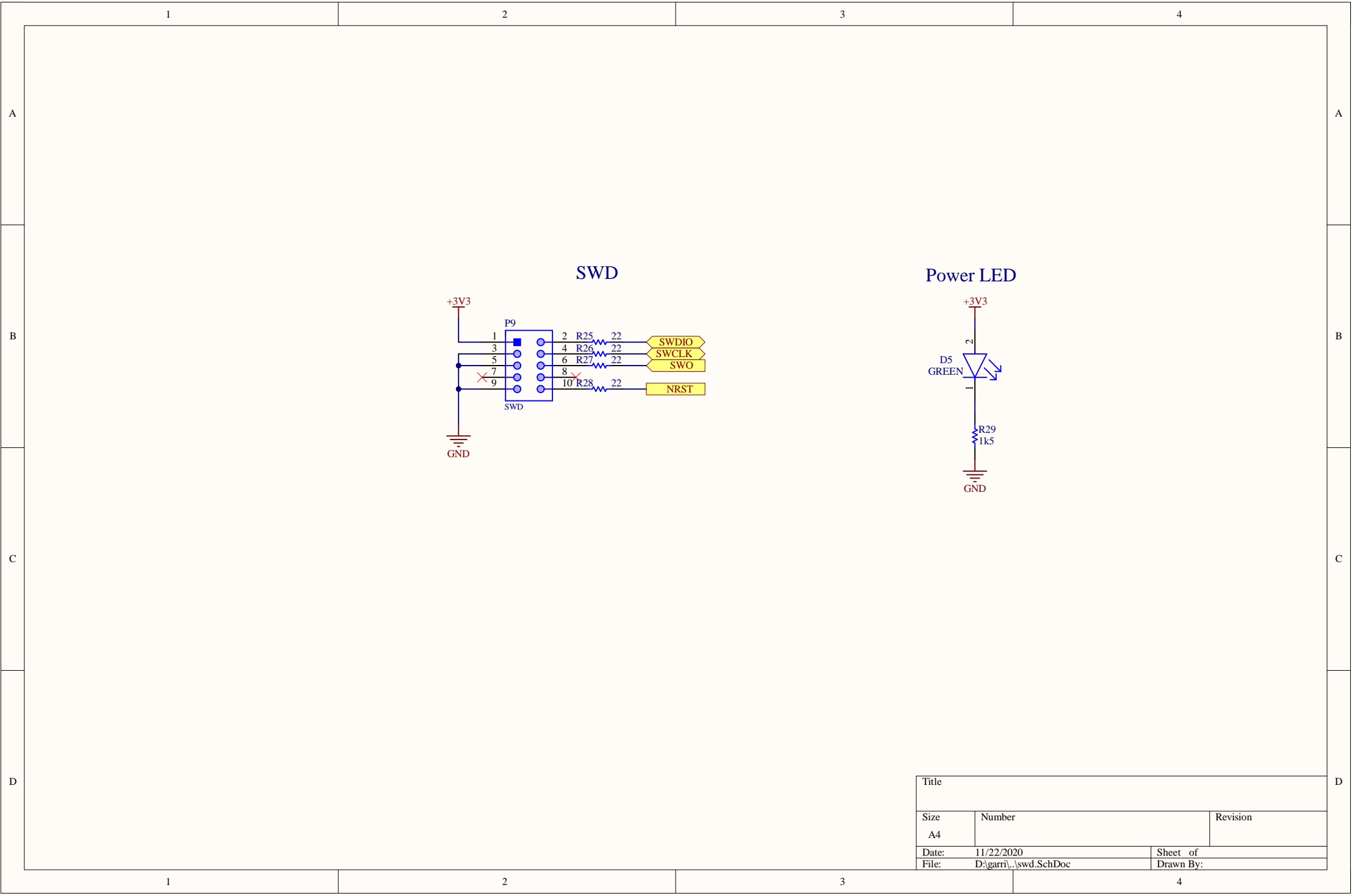
Inertial Measurement Unit



USB



Title		
Size	Number	Revision
A4		
Date:	11/22/2020	Sheet of
File:	D:\garri\...\Sensors.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
100n	CAP CER 1000PF 10V K78 0402	C1, C2, C3, C4, C5, C13	FP-020402-MFG	COMP-03422-000501-1	4
A47	Chip Capacitor, 22pF ±1%, 50 V, 55 to 125 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	C6	CAPC1608X0603M1 0T15	COMP-2000-04945-1	1
12p	CAP CER 1000PF 10V K78 0402	C7, C8	FP-020402-MFG	COMP-03422-000501-1	2
2u2	Chip Capacitor, 22pF ±1%, 50 V, 55 to 125 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	C9, C10	CAPC1608X0603M1 0T15	COMP-2000-04945-1	2
1u	CAP CER 1000PF 10V K78 0402	C11	FP-020402-MFG	COMP-03422-000501-1	1
10n	CAP CER 1000PF 10V K78 0402	C12, C15	FP-020402-MFG	COMP-03422-000501-1	2
10u	MultiLayer Ceramic Capacitor, C Series, 0.1 F, ±5%, X7R, 50V, 1206 (3216 Metric) RoHS Compliant, Yes	C14, C16, C17	FP-C1206C-EB-MFG	COMP-03020-00396-1	3
19-23776G4804C- A011/2T	LED RGB CLEAR CHIP SMD3030	D1	FP-12-23A-MFG	COMP-15164-00005-1	1
RED	LED GREEN CLEAR CHIP SMD	D2	FP-LTST-C190K1- MFG	COMP-22017-00005-1	1
BS019W	Schottky Barrier Rectifier, 20V, 1A, 65 to 150 deg.C, 2 Pin SOD-214AC (SMA), RoHS, Tape and Reel	D3, D4	VISH DD-214AC_V	COMP-004-00017-1	2
GREEN	LED GREEN CLEAR CHIP SMD	D5	FP-LTST-C190K1- MFG	COMP-22017-00005-1	1
250mA	NANO250 (Sio-Bio)R Fuse, 0.5 A, 125 V, 55 to 125 deg.C, 2 Pin SMD, RoHS, Tape and Reel	F1	Fuse 1206	Fuse 1206	1
400 or 600 Mhz	Fixed Inductor, 10 uH, ±1%, 55 to 125 deg.C, 2 Pin SMD (0805), RoHS, Tape and Reel	F81, F82	MURA-IND0805_L	COMP-2000-06587-1	2
35B_B_Micro	Micro USB B Type Receptacle, 55 to 85 deg.C, 5-Pin SMD, RoHS, Tape and Reel	J1	FCI-10118193-00015- S_V	COMP-2000-05119-1	1
10u	Inductor SMD	L1	W55A0818		1
22-28-4033	Male Header, Pitch 2.54 mm, 1 x 3 Position, Height 8.21 mm, Tail Length 3.18 mm, RoHS, Bulk	P1	MDLX-22-28-4033_V	COMP-1676-00001-5	1
Conn_01x02	Male Header, Pitch 2.54 mm, 1 x 2 Position, Height 8.21 mm, Tail Length 3.05 mm, 45 to 105 deg.C, RoHS, Bulk	P2	TECO-5-146280-2_V	COMP-2000-07492-1	1
Conn_01x04	Horizontal Surface Mount Header, 55 to 105 deg.C, 2mm Pitch, 4-Pin, Male, RoHS	P3, P4, P5, P6, P7, P8	SMTC-MMT-104-01-X SH	COMP-1029-00050-1	4
SWD	SMT Male Header W6 MPCL with SMT Solder Tabs, Vertical, Dual Row, pitch 3 mm, 10 pins	P9	662010231022	COMP-1502-00344-1	1
AO3401A	N-Channel MOSFET, 20V, 4 A, 55 to 150 deg.C, 3 Pin SOT-23- L, RoHS, Tape and Reel	Q1	AO-SOT-23_3L_V	COMP-2000-05778-1	1
47		R1, R2, R3	RESC1005X40X25N105 105	COMP-2002-08169-1	3
10k		R4, R5, R6	RESC1005X40X25N105 105	COMP-2002-08169-1	3
1k	Chip Resistor, 100 Ohm, ±1%, 0.1 W, 55 to 155 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	R7	RESC1608X5X25M10 T15	COMP-2100-03663-1	1
22		R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R26, R27, R28	RESC1005X40X25N105 105	COMP-2002-08169-1	16
100k	Chip Resistor, 100 Ohm, ±1%, 0.1 W, 55 to 155 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	R20	RESC1608X5X25M10 T15	COMP-2100-03663-1	1
68k	Chip Resistor, 100 Ohm, ±1%, 0.1 W, 55 to 155 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	R21	RESC1608X5X25M10 T15	COMP-2100-03663-1	1
47k	Chip Resistor, 100 Ohm, ±1%, 0.1 W, 55 to 155 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	R22	RESC1608X5X25M10 T15	COMP-2100-03663-1	1
15k	Chip Resistor, 100 Ohm, ±1%, 0.1 W, 55 to 155 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	R23	RESC1608X5X25M10 T15	COMP-2100-03663-1	1
270	Chip Resistor, 100 Ohm, ±1%, 0.1 W, 55 to 155 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	R24	RESC1608X5X25M10 T15	COMP-2100-03663-1	1
1k5	Chip Resistor, 100 Ohm, ±1%, 0.1 W, 55 to 155 deg.C, 0603 (1608 Metric), RoHS, Tape and Reel	R29	RESC1608X5X25M10 T15	COMP-2100-03663-1	1
STM32F405RGt6	ARM Cortex-M4 32- bit MCU-EPFL, 210 DMPS, 1024 kbit Flash, 1024 kbit Internal SRAM, 51 I/Os, 64-pin LQFP, 40 to 85 deg.C, Tray	J31	STM-LQFP44_M	COMP-0243-00019-3	1
W25N010V2EIG	No Description Available	J32	W50N-IL_AXL_WN	W25N010V2EIG	1
8MP280	Digital Pressure Sensor, 1.71 to 3.6 V, 40 to 85 deg.C, 8 Pin LGA, RoHS, Tape and Reel	J33	BOSCHGA-8_V	COMP-2000-05076-1	1
BAW088	No Description Available	J34	CFN_BAW088_BO5	BAW088	1
358LC6-25C6	Very low capacitance ESD protection, 3.5 pF, 40 to 125 deg.C, 6 Pin SOT23, RoHS, Tape and Reel	J35	STM-SOT23-4L_V	COMP-2000-05378-1	1
MP2590A-U-2	Regulator	J36		MP2590A-U-2	1
16 Mhz	16MHz As10ppm Crystal 9pf 40 Ohms 4-Pin SMD, No Load	K1	XTAL_15X 3225_16.0000M18X- AC3	15X 3225_16.0000M18X- AC3	1