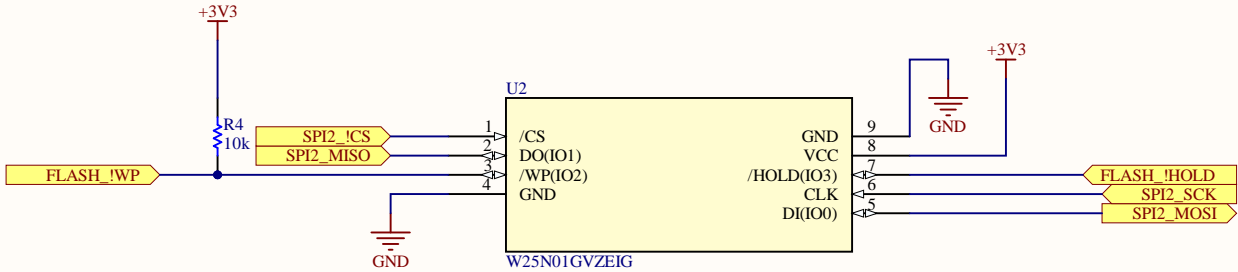
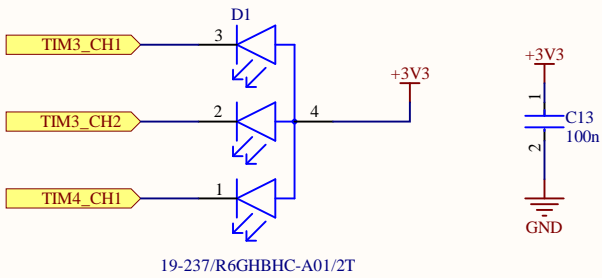


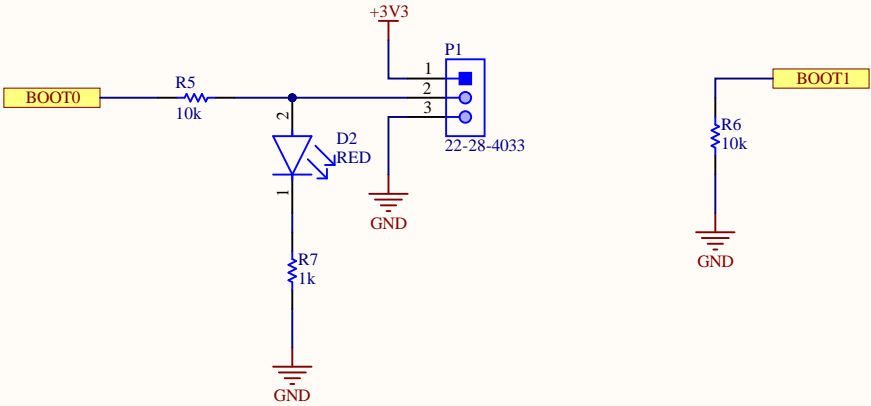
Flash Memory



RGB LED

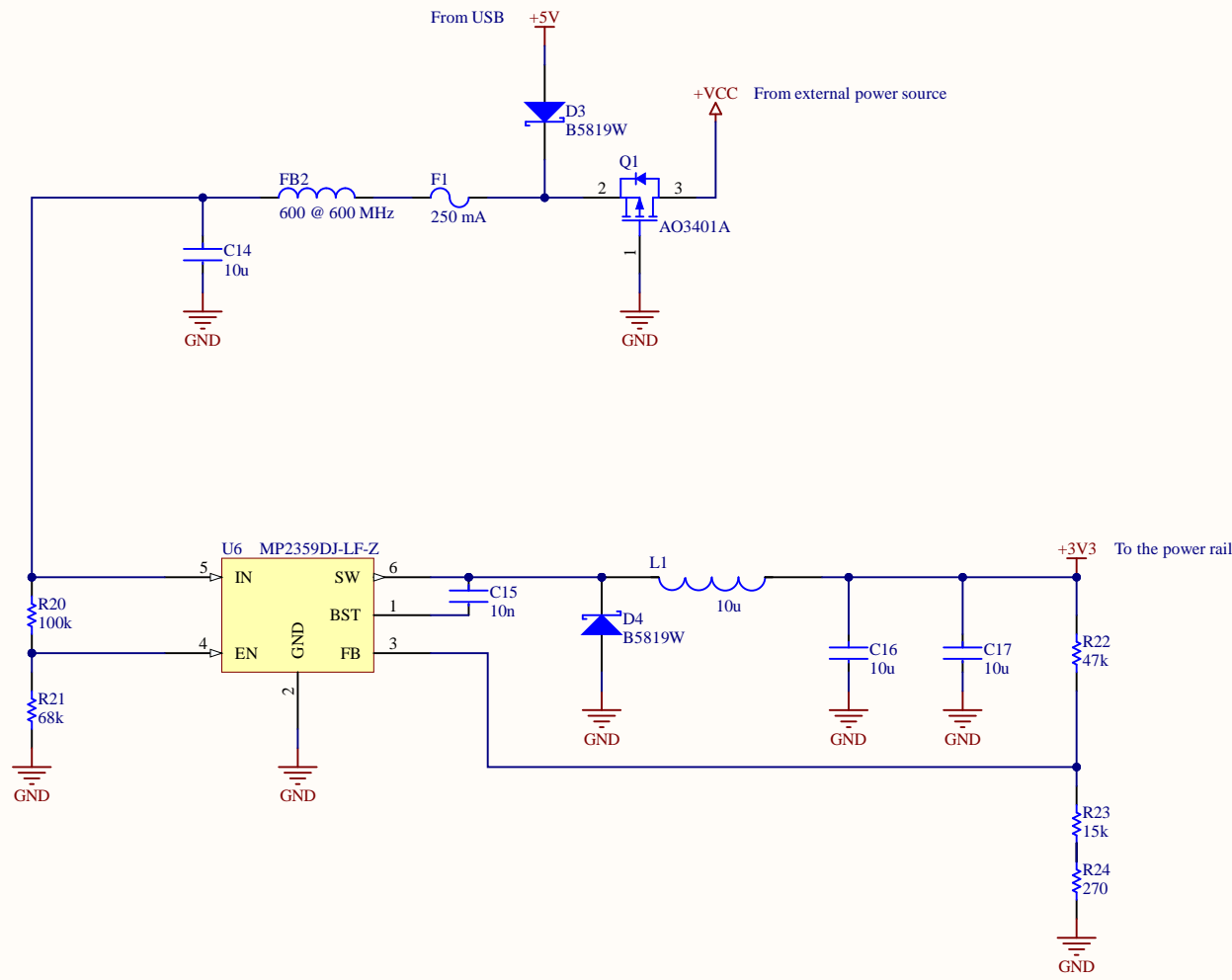


BOOT0



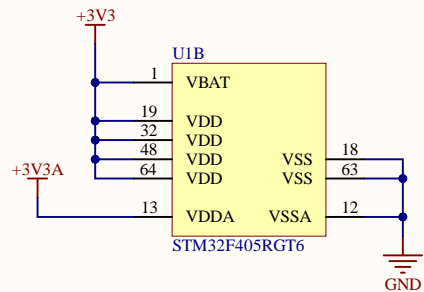
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Step-down Converter

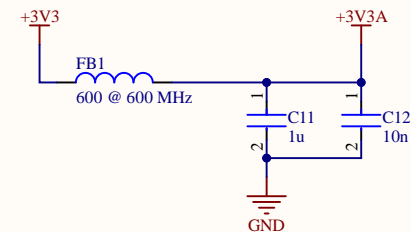
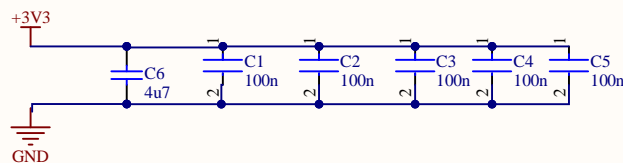


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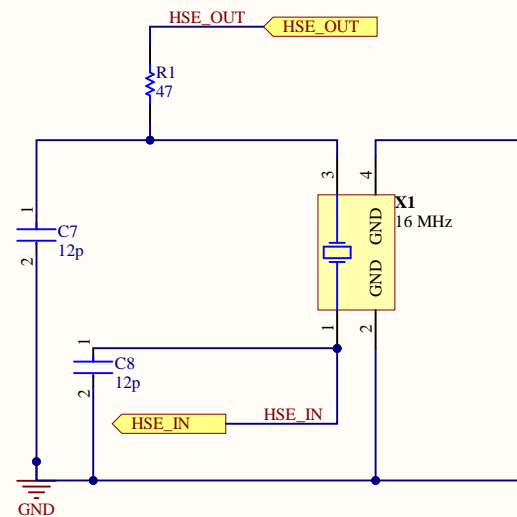
Microcontroller Power Supply



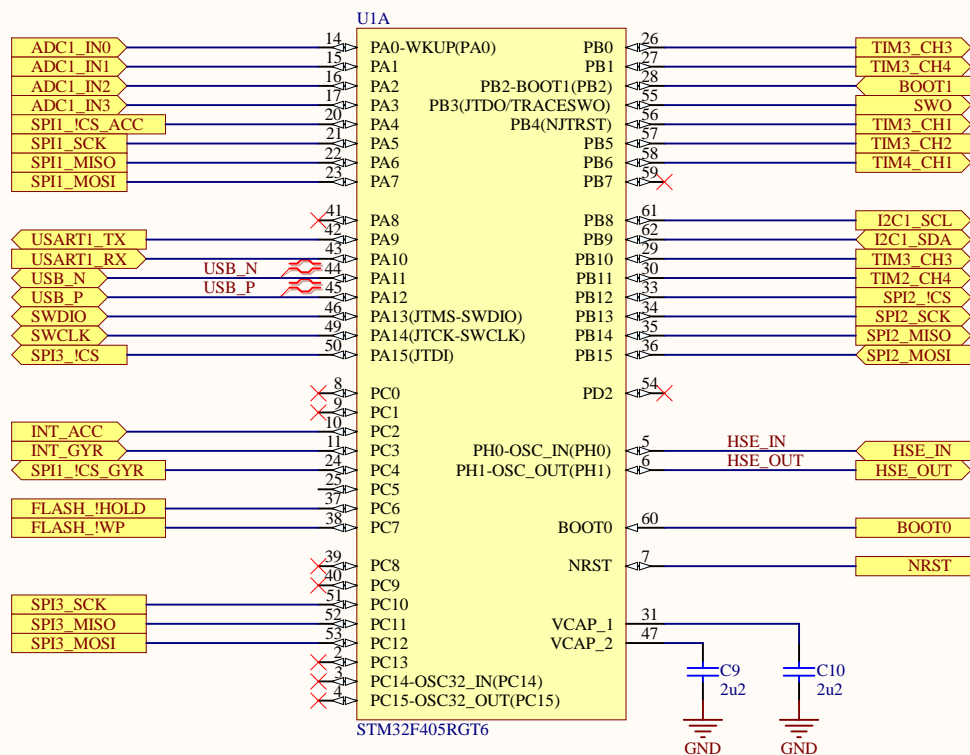
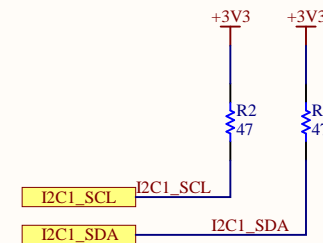
Decoupling



HSE

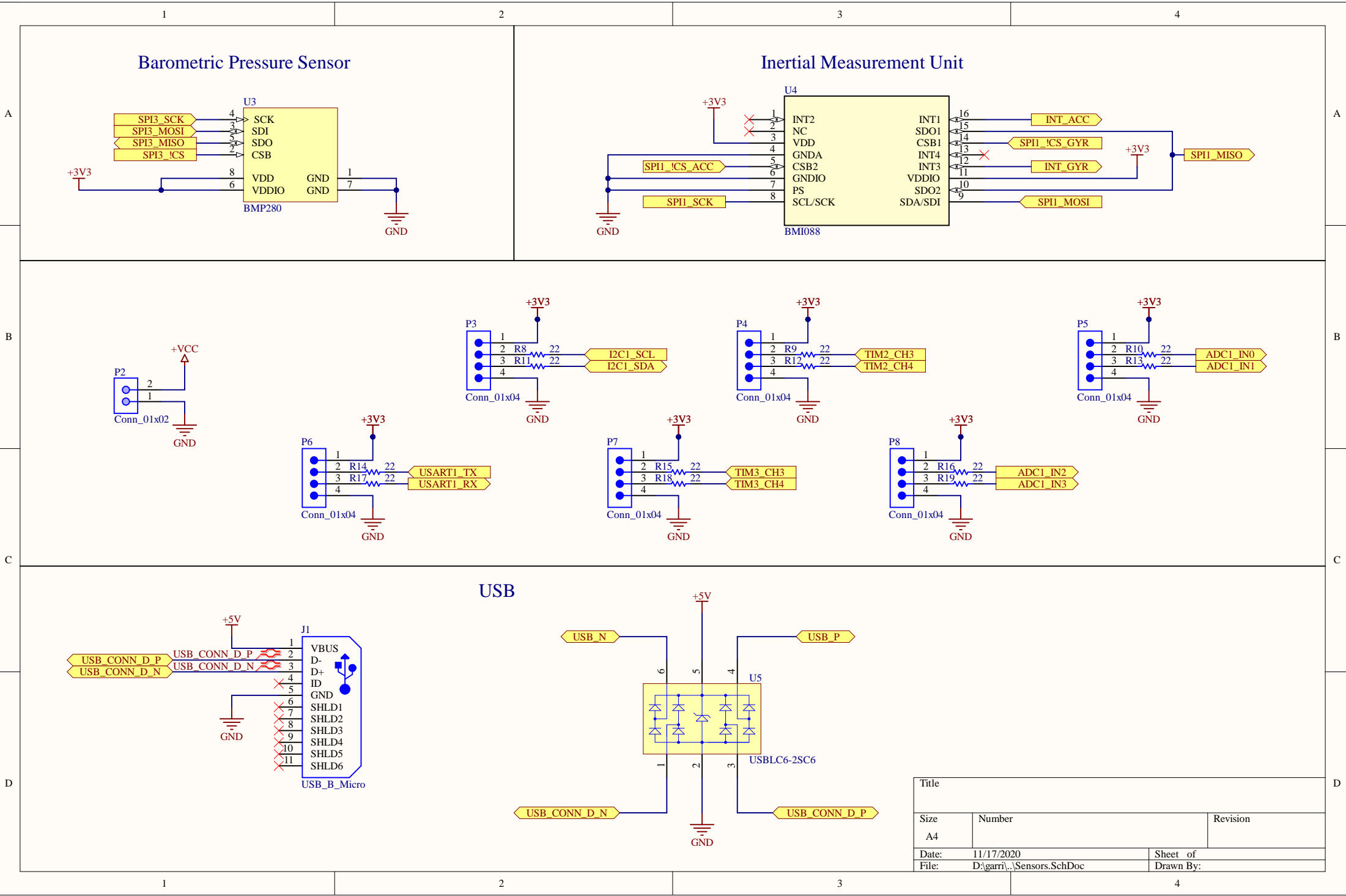


Pull up resistors



Title		
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Date:	11/17/2020	Sheet of
File:	D:\garri\...F4FlightController.SchDoc	Drawn By:

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A																
B	<div>Boot and Flash BootMemory.SchDoc</div> <div></div>	<div>Sensors Sensors.SchDoc</div> <div></div>														
C	<div>Flight Controller F4FlightController.SchDoc</div> <div></div>	<div>Step Down Converter downConverter.SchDoc</div> <div></div>														
D				<table><tr><td colspan="3">Title</td></tr><tr><td>Size A4</td><td>Number</td><td>Revision</td></tr><tr><td>Date:</td><td>11/17/2020</td><td>Sheet of</td></tr><tr><td>File:</td><td>D:\garri\...\Index.SchDoc</td><td>Drawn By:</td></tr></table>	Title			Size A4	Number	Revision	Date:	11/17/2020	Sheet of	File:	D:\garri\...\Index.SchDoc	Drawn By:
Title																
Size A4	Number	Revision														
Date:	11/17/2020	Sheet of														
File:	D:\garri\...\Index.SchDoc	Drawn By:														
	1	2	3	4												



Comment	Description	Designator	Footprint	Refuf	Quantity
100n	CAP CER 10000PFF 16V X7R 0402	C1, C2, C3, C4, C5, C13	FP-C0402-MFG	CMP-03422-000501-1	4
4u7	Chip Capacitor, 22 pF, +/- 5%, 50 V, -55 to 125 degC, 0603 (1608 Metric), RoHS, Tape and Reel	C6	CAPC1608B90K35ML1 RT15	CMP-2000-04945-1	1
12p	CAP CER 10000PFF 16V X7R 0402	C7, C8	FP-C0402-MFG	CMP-03422-000501-1	2
2u2	Chip Capacitor, 22 pF, +/- 5%, 50 V, -55 to 125 degC, 0603 (1608 Metric), RoHS, Tape and Reel	C9, C10	CAPC1608B90K35ML1 RT15	CMP-2000-04945-1	2
1u	CAP CER 10000PFF 16V X7R 0402	C11	FP-C0402-MFG	CMP-03422-000501-1	1
10n	CAP CER 10000PFF 16V X7R 0402	C12, C15	FP-C0402-MFG	CMP-03422-000501-1	2
10u	Multilayer Ceramic Capacitor, C Series, 0.1 F, +/- 5%, 50V, 50 V, 1206 (3216 Metric) Reels Compliant: Yes	C14, C16, C17	FP-C1206-EB-MFG	CMP-03020-003996-1	3
19-22778G48HC A01/ZT	LED RGB CLEAR CHIP SMD 2/IA	D1	FP-12-23A-MFG	CMP-51564-000005-1	1
RED	LED GREEN CLEAR CHIP SMD	D2	FP-LTST-C1900KT- MFG	CMP-22017-000005-1	1
55819W	Schottky Barrier Rectifier, 20 V, 1 A, - 65 to 150 degC, 2 Pin DO-214AC (DPAK), RoHS, Tape and Reel	D3, D4	VISH-DO-214AC_V	CMP-004-00017-1	2
250 mA	NANO2(R) Sio-Bio(R) Fuses, 0.5 A, 125 V, -55 to 125 degC, 2-Pin SMD, RoHS, Tape and Reel	F1	LFUS-0452_V	CMP-2000-05698-1	1
600 +/- 600 MHz	Fixed Inductor, 10 uH, +/- 20%, -55 to 125 degC, 2-Pin SMD (0805), RoHS, Tape and Reel	F81, F82	MURA-IND0805_L	CMP-2000-06587-1	2
USB_B_Micro	Micro USB B Type Receptacle, -55 to 85 degC, 5-Pin SMD, RoHS, Tape and Reel	J1	CI-10118193-0001UF- S_V	CMP-2000-05119-1	1
10u	Main Header, Pitch 2.54 mm, 1 x 3 Position, Height 8.38 mm, Tail Length 3.18 mm, RoHS, Bulk	J1		MVSA0518	1
22-28-4033	Male Header, Pitch 2.54 mm, 1 x 2 Position, Height 8.21 mm, Tail Length 3.05 mm, -65 to 125 degC, RoHS, Bulk	P1	MOLX-22-28-4033_V	CMP-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, -65 to 125 degC, RoHS, Bulk	P2	TECO-5-146280-2_V	CMP-2000-07492-1	1
Conn_01x04	Horizontal Surface Mount Header, -55 to 125 degC, 2 mm Pitch, 4 Pin, Male, RoHS	P3, P4, P5, P6, P7, P8	SMT-MMT-104-01 X- SH	CMP-1029-00050-1	6
A03401A	P-Channel MOSFET, 30V, 4A, -55 to 150 degC, 3-Pin SOT-23- 3L, RoHS, Tape and Reel	Q1	AO-SOT-23-3L_V	CMP-2000-05778-1	1
47		R1, R2, R3	RESC105X40X25ML05 T05	CMP-2002-08169-1	3
10k		R4, R5, R6	RESC105X40X25ML05 T05	CMP-2002-08169-1	3
1k	Chip Resistor, 100 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R7	RESC1608X5X25ML10 T15	CMP-2100-03663-1	1
22		R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	RESC105X40X25ML05 T05	CMP-2002-08169-1	12
100k	Chip Resistor, 100 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R20	RESC1608X5X25ML10 T15	CMP-2100-03663-1	1
68k	Chip Resistor, 100 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R21	RESC1608X5X25ML10 T15	CMP-2100-03663-1	1
47k	Chip Resistor, 100 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R22	RESC1608X5X25ML10 T15	CMP-2100-03663-1	1
19k	Chip Resistor, 100 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R23	RESC1608X5X25ML10 T15	CMP-2100-03663-1	1
270	Chip Resistor, 100 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R24	RESC1608X5X25ML10 T15	CMP-2100-03663-1	1
STM32F405RGt6	ARM Cortex-M4 32- bit MCU-FPU, 210 DMIPS, 1024 kB Flash, 192 kB Internal RAM, 511 I/Os, 64-pin LQFP, 40 to 85 degC, Tray	U1	STM-LQFP4_M	CMP-0243-00019-3	1
W29W01GVZEG	No Description Available	U2	WSON-8_6K5_WIN	W29W01GVZEG	1
BMF280	Digital Pressure Sensor, 1.71 to 3.4 V, 40 to 85 degC, 8-Pin LGA, RoHS, Tape and Reel	U3	ROSC-LGA-8_V	CMP-2000-05076-1	1
BM0088	No Description Available	U4	QFN_BM008_BOS	BM0088	1
USBLCS-25C6	Very low capacitance ESD protection, 3.5 pF, -40 to 125 degC, 6- Pin SOT23, RoHS, Tape and Reel	U5	STM-SOT23-6L_V	CMP-2000-05378-1	1
BMF229W03-LF-Z	ProxSensor	U6		BMF229W03-LF-Z	1
16 MHz	Ceramic Crystal, 16 MHz, -20 to 70 degC, 4- Pin SMD, RoHS, Tape and Reel	X1	ECS-ECX-53B_V	CMP-2000-06191-1	1