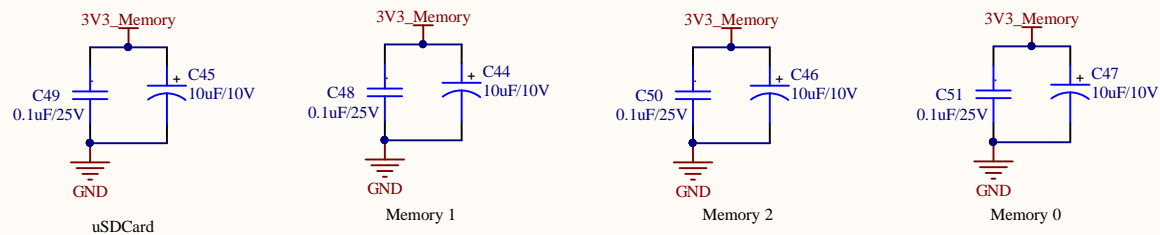
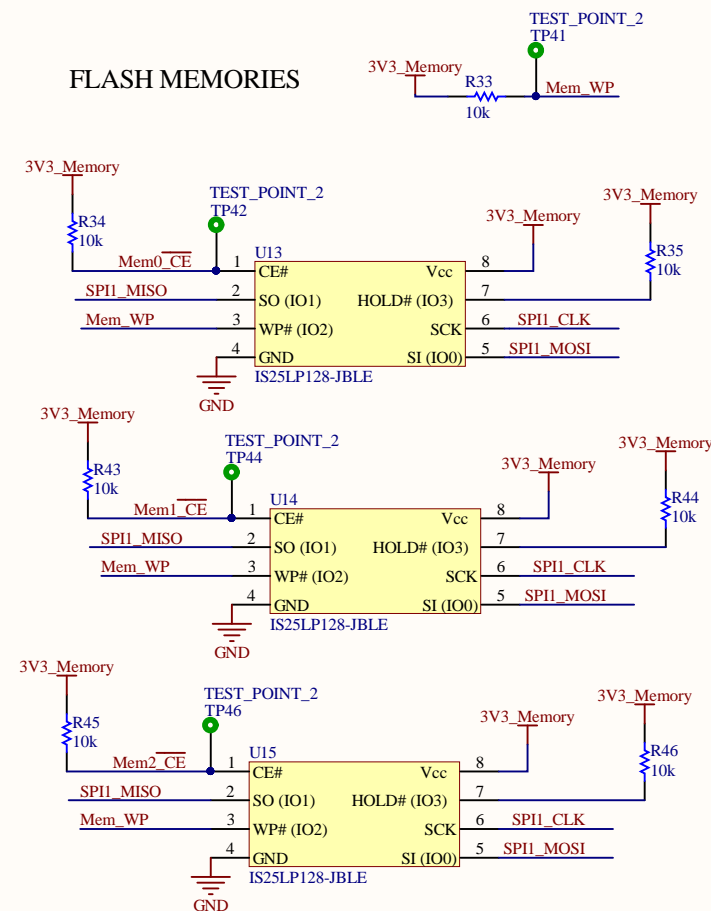


Decoupling Capacitors



FLASH MEMORIES



Title **Non Volatile Memory**

Size: A4

Project: FloripaSat

Revision: V0.0

Date: 14/04/2019

Time: 12:40:47

Sheet 5 of 7

Drawn By: Sara V. Martinez

Model: Flight

UFSC - SpaceLab

University Campus - Trindade

Dep. of Electrical Engineering - CTC

Florianópolis, Santa Catarina, Brazil

CEP: 88040 - 900

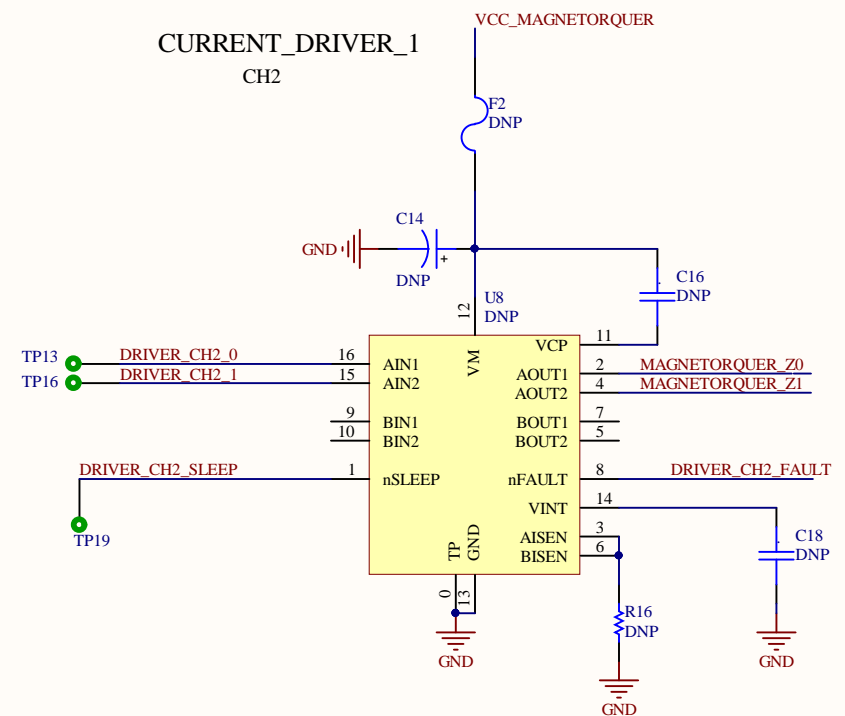
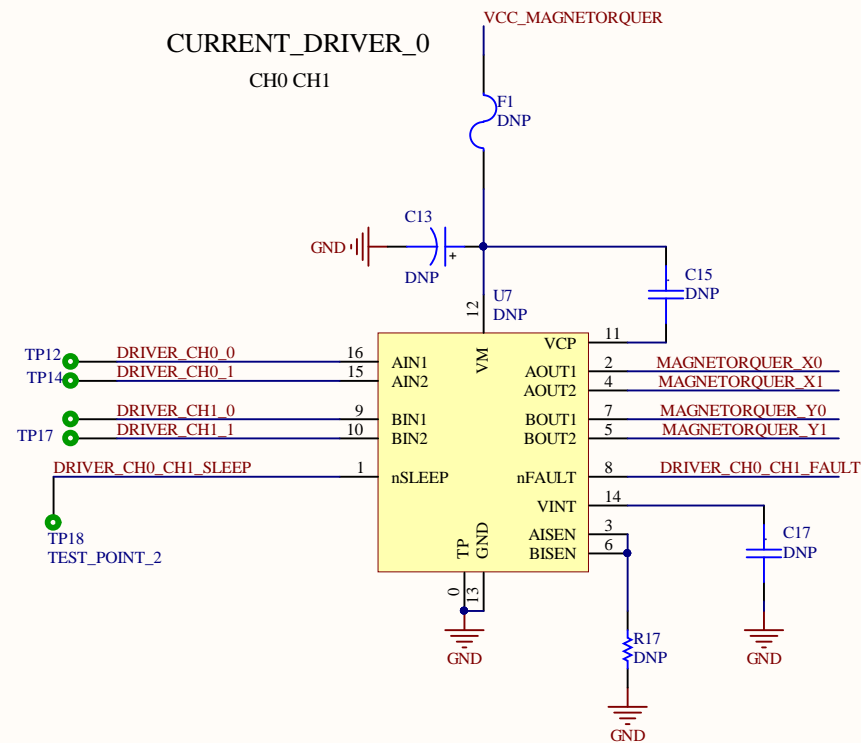


1

2

3

4

Title **Magnetorquer Drivers**

Size: A4

Project: FloripaSat

Revision: V0.0

Date: 14/04/2019

Time: 12:40:47

Sheet 6 of 7

Drawn By: Sara V. Martinez

Model: Flight

UFSC - SpaceLab

University Campus - Trindade

Dep. of Electrical Engineering - CTC

Florianópolis, Santa Catarina, Brazil

CEP: 88040 - 900



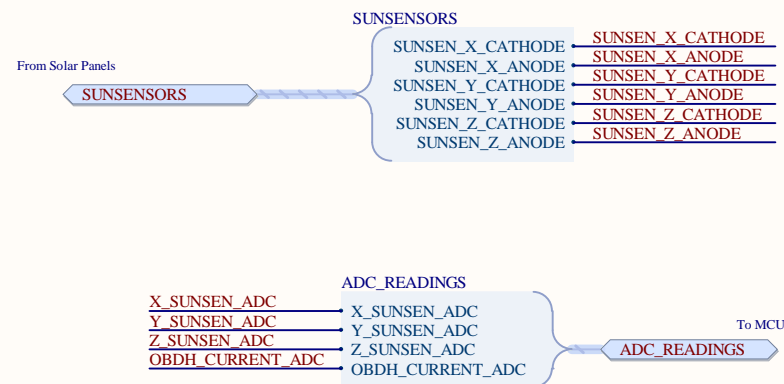
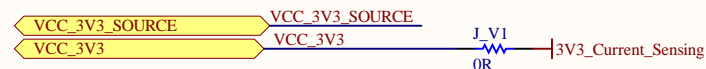
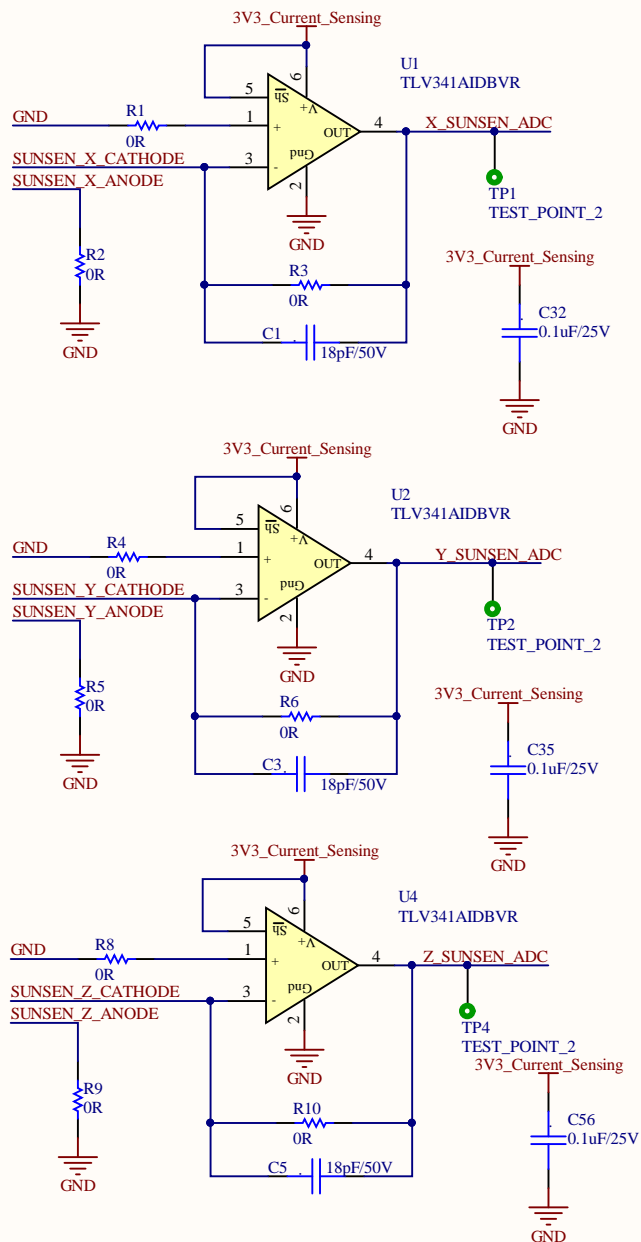
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2

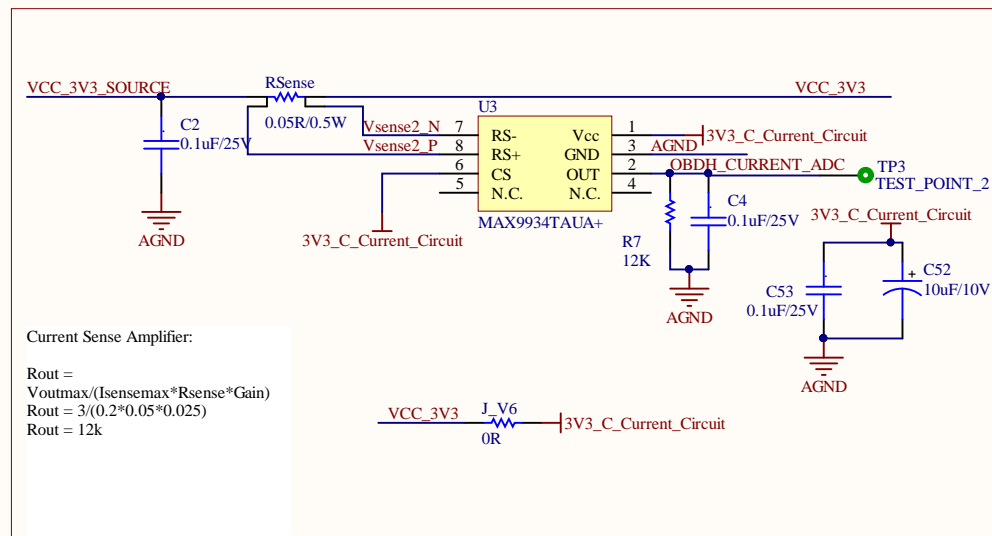
3

4

Photodiode Current Sensing Circuit



OBDH Consumption Current Circuit



Title **Current Sensing**

Size: A4

Project: FloripaSat

Revision: V0.0

Date: 14/04/2019

Time: 12:40:47

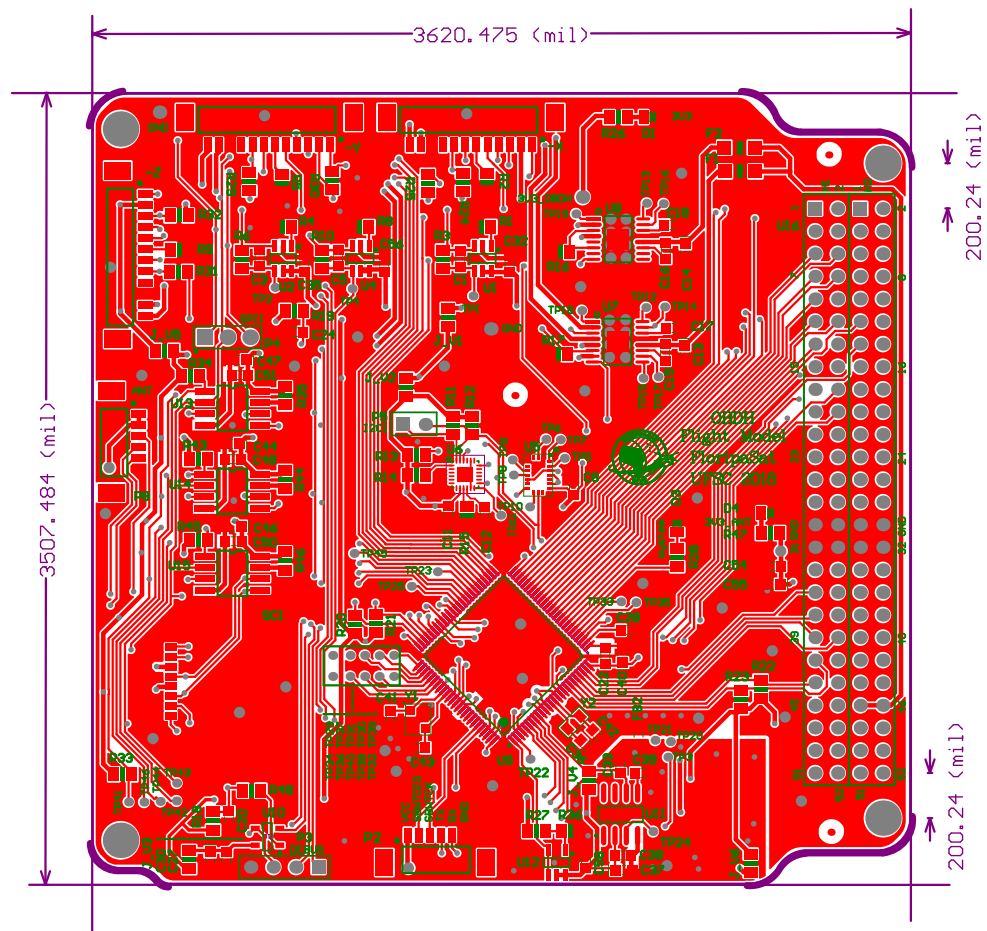
Sheet 7 of 7

Drawn By: Sara V. Martinez

Model: Flight

UFSC - SpaceLab
University Campus - Trindade
Dep. of Electrical Engineering - CTC
Florianópolis, Santa Catarina, Brazil
CEP: 88040 - 900

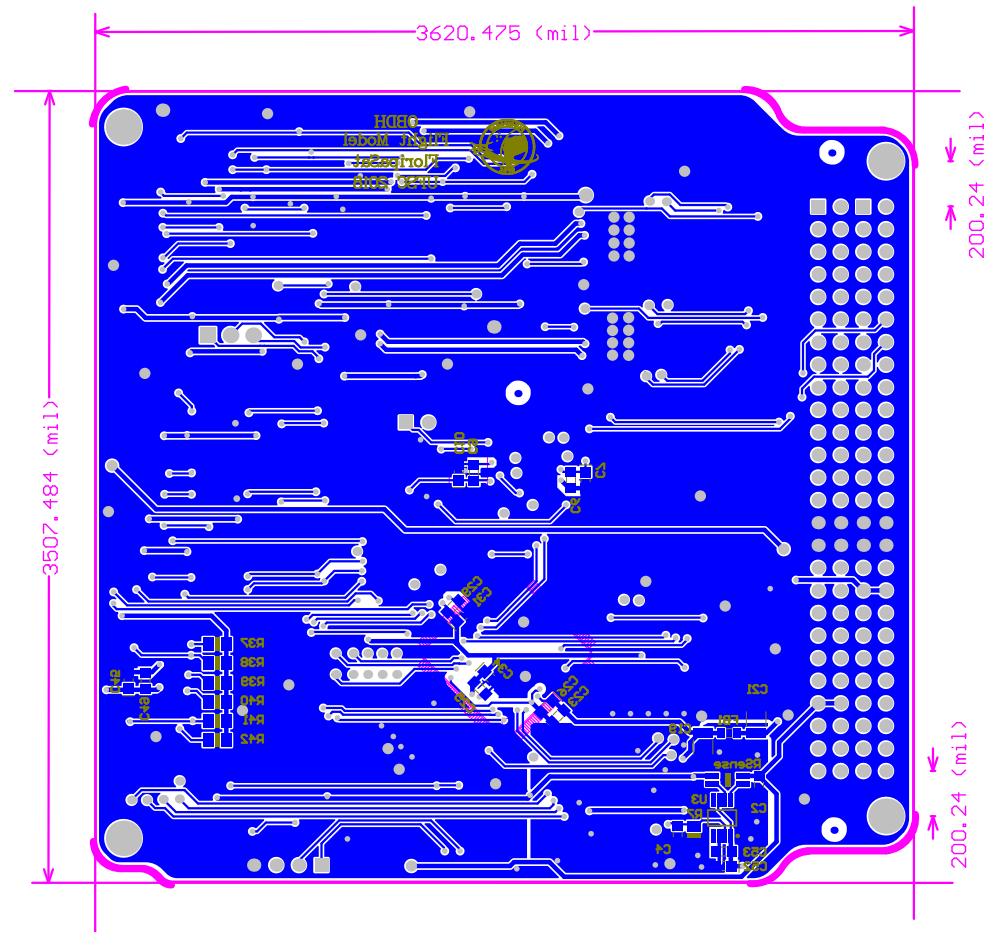




General SPEC:

Copper base 10Z:
PCB Material: FR4
PCB Thickness: 1.6mm
PCB Surface: ENIG
Vias: Force Complete Tenting

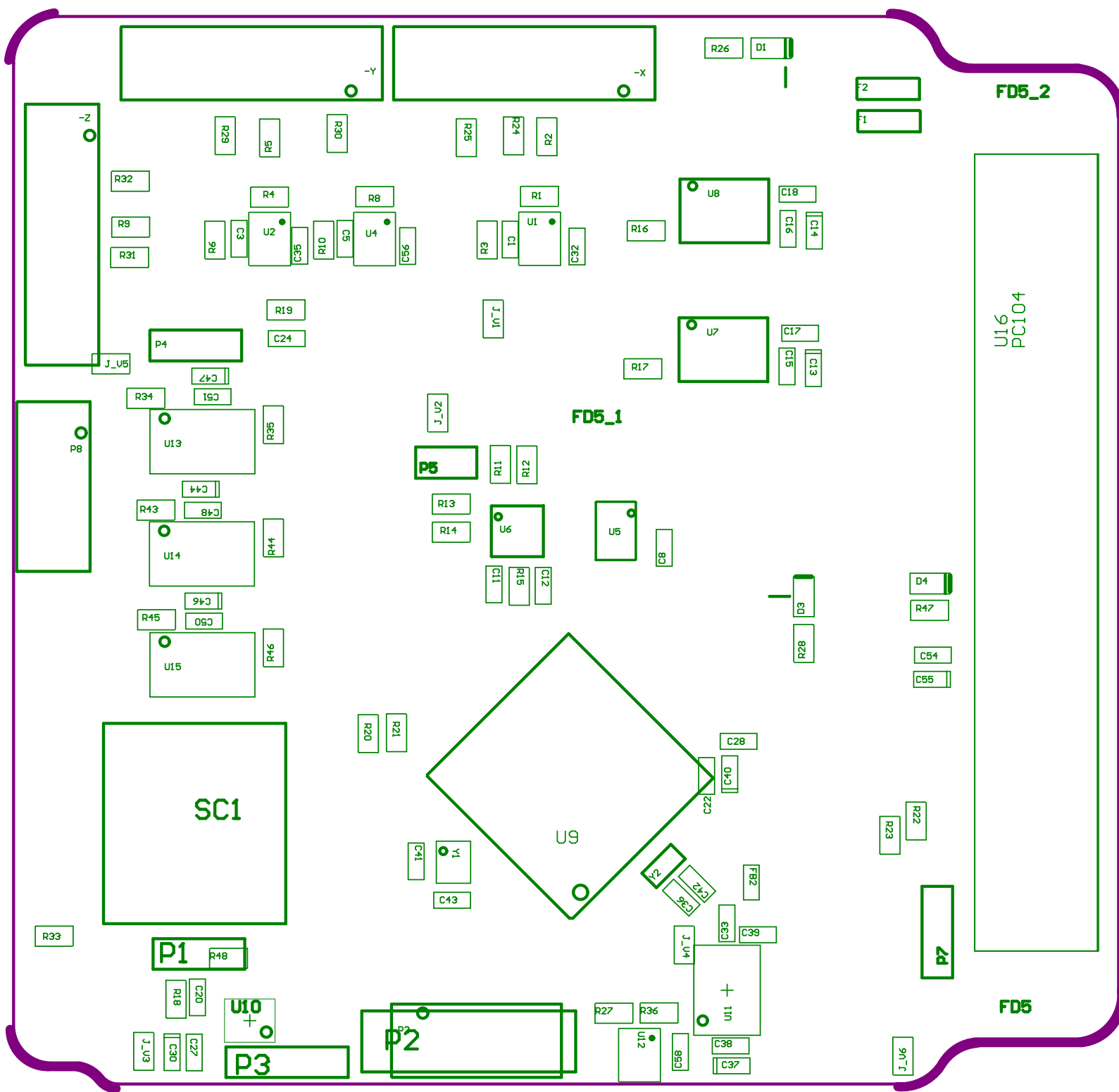
TITULO: OBDH 2018		REV.	VER.
UFSC		01	Flight
MATERIAL: FR4	Silkscreen color: white		
Board Tickness: 1.6mm	Layers: 02	Drawing	DATE
PCB Surface: ENIG		Sara Vega Martinez	15/10/2018

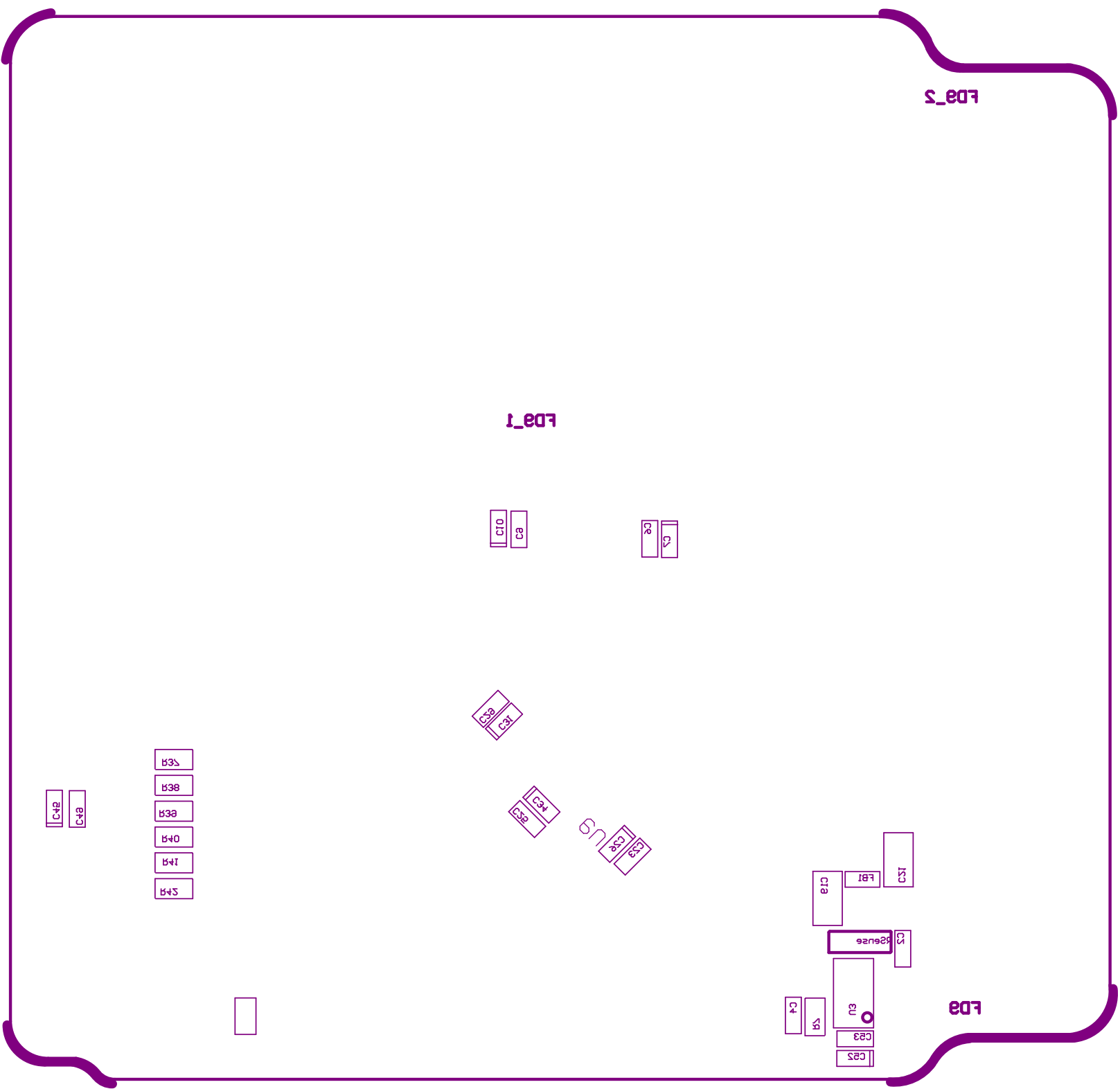


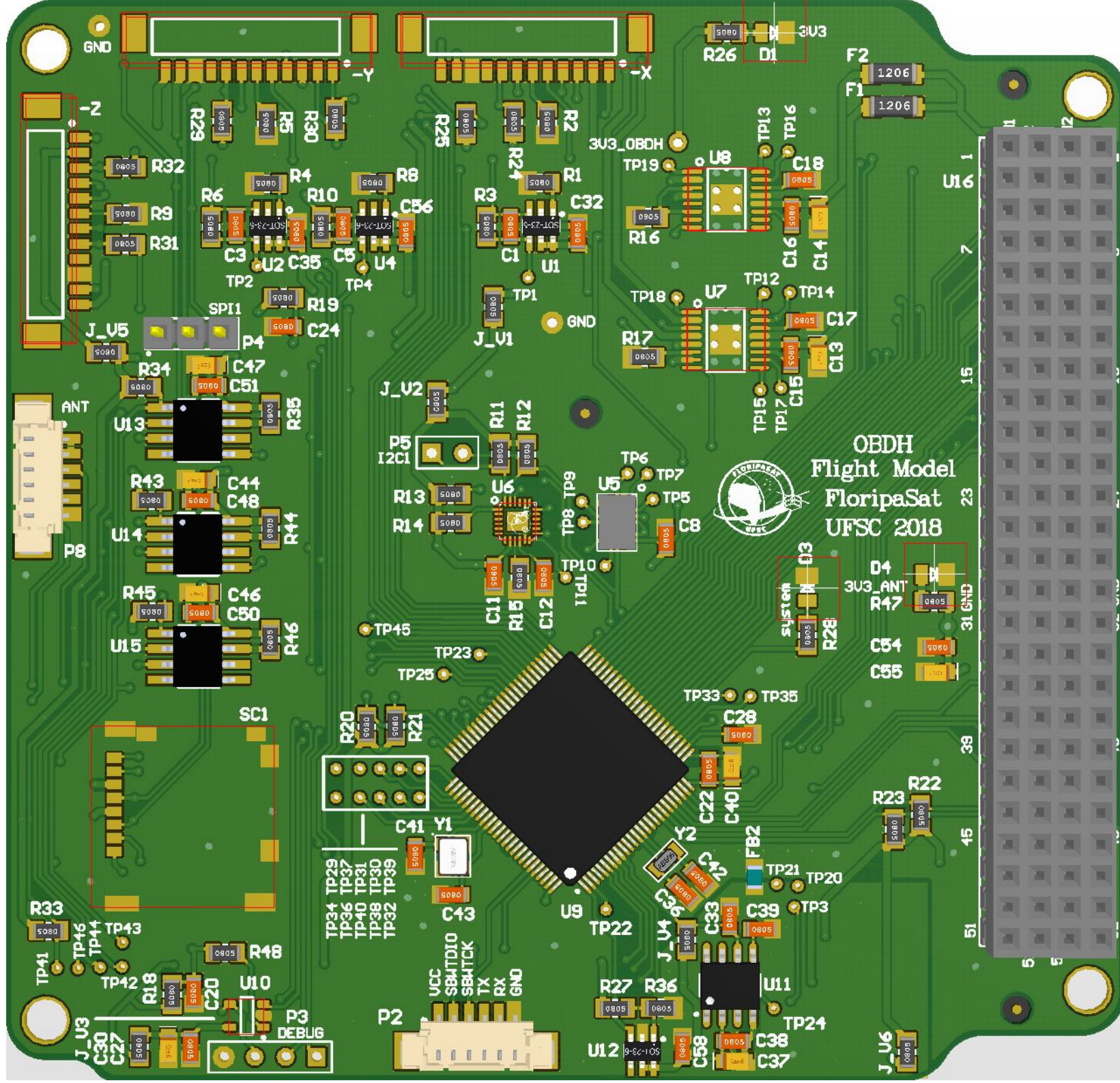
General SPEC:

Copper base 10Z:
 PCB Material: FR4
 PCB Thickness: 1.6mm
 PCB Surface: ENIG
 Vias: Force Complete Tenting

TITULO: OBDH 2018		REV.	VER.
UFSC		01	Flight
MATERIAL: FR4	Silkscreen color: white		
Board Thickness: 1.6mm	Layers: 02	Drawing	DATE
PCB Surface: ENIG		Sara Vega Martinez	15/10/2018





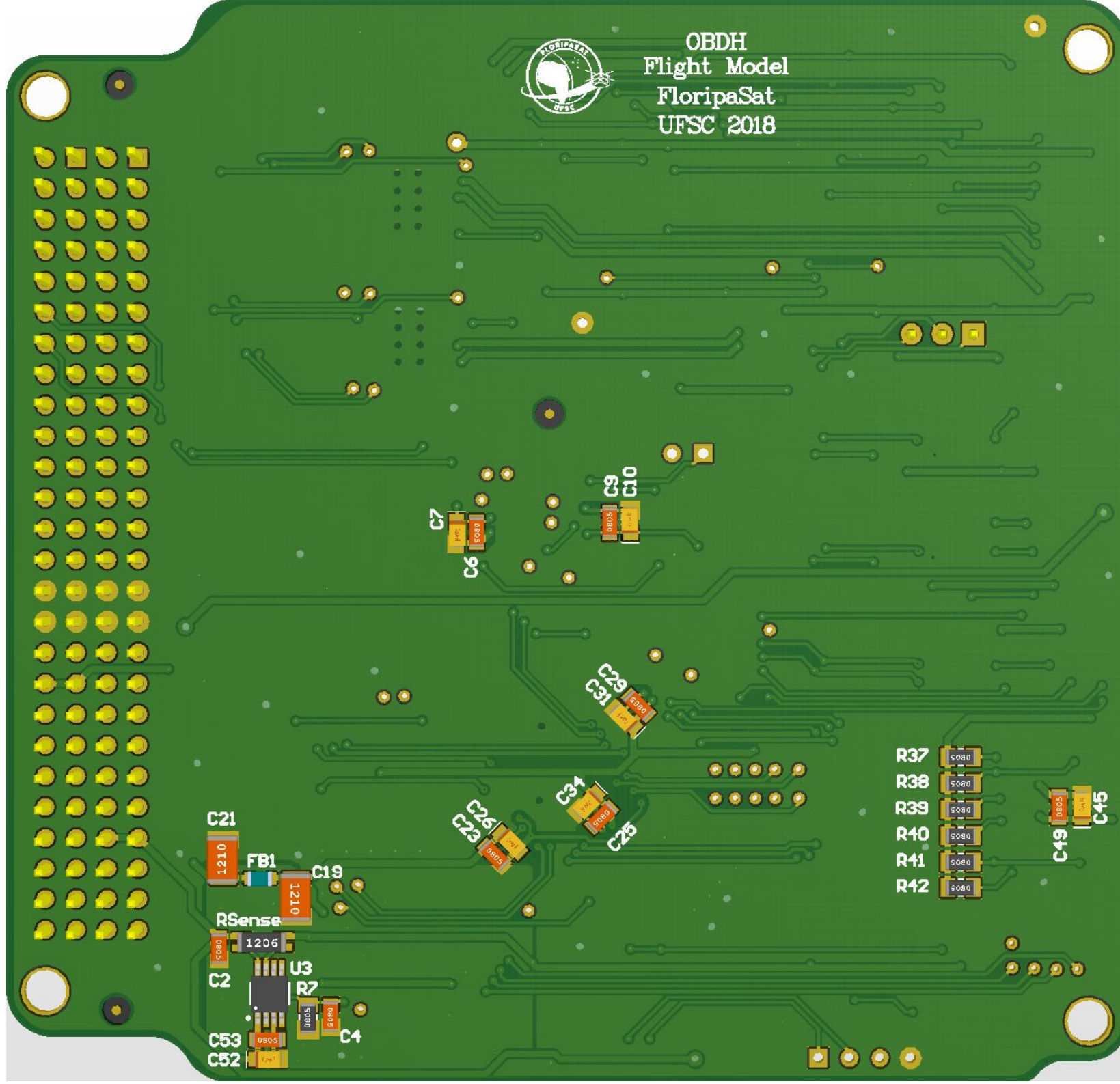


OBDH
Flight Model
FloripaSat
UFSC 2018





OBDH
Flight Model
FloripaSat
UFSC 2018



Bill of Materials

Bill of Materials For Project [PCB_Eng_Model_OBDH_2.PrjPcb] (No PCB Document S

Source Data From:

PCB Eng Model OBDH 2.PriPcb

Project:

PCB Eng Model OBDH 2.PrjPcb

Variant:

None

Creation Date: 14/04/2019

12:41:34

Print Date: 14-Apr-19

12:41:56 PM

Printout	Comment	Part Number	Designator	Description	Quantity
HDR12 PicoBlade duplicate		53386-12T1, 53386-12T1, 53386-12T1	X,-Y,-Z	Header, 12-Pin	
CC0805	18pf/50V	C0805K9XNP0R BN180	C1, C3, C5	CAP CER 18pf 50V 5% 10X 0805	
CC0805	0.1uf/25V	C0805K9XNP0R BB10A	C2, C4, C9, C12, C22, C23, C25, C27, C29, C32, C33, C35, C38, C48, C50, C51, C53, C54, C56, C58	CAP CER 0.1UF 25V 10% 10X 0805	21
CC0805	DNP	C0805K9XNP0R BB10A, C0805K9XNP0R BB10A, CL12B103KAAN NNC, CL12B103KAAN NNC, C2012DVR1C22 SK12AB C2012DVR1C22 SK12AB	C6, C8, C15, C16, C17, C18	CAP CER 0.1UF 25V 10% 10X 0805, CAP CER 0.1UF 25V 10% 10X 0805, CAP CER 0.01uf 50V 10% 10X 0805, CAP CER 0.01uf 50V 10% 10X 0805, CAP CER 2.2uf 16V 0805, CAP CER 2.2uf 16V/ 0805	
CC0805L_Test alum	DNP	TPSP106M01GR 2000	C7, C13, C14	CAP Tantalum 10uF 10V 20% 0805	
CC0805L_Test alum	10uF/10V alum	TPSP106M01GR 2000, TPSP106M000R 1000, TPSR106K000R 1000, TPSR106K000R 1000, TPSR106K000R 1000, TPSR106K000R 1000, TPSR106K000R 1000, TPSR106M01GR 2000, TPSP106M01GR 2000, TPSP106M01GR 2000, TPSP106M01GR 2000, TPSR106K000R 1000	C10, C26, C30, C31, C34, C37, C40, C44, C45, C46, C47, C51, C55	CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 6.3V 10% 0805	13
CC0805	0.01uf/25V	CL12B103KAAN NNC	C11, C39	CAP CER 0.01uf 25V 10% 10X 0805	2
CC1210	22uf/16V	C3225XR07TE2 #652AC	C19, C20	CAP CER 22uf 16V 10% 10X 1210	
CC0805	0.047uf/25V	ICAM1687Y1E4 73KA370	C20	CAP CER 0.047uf 25V 0805	
CC0805	0.022uf/50V	CGA-ADG0GH 22J25AA	C24	CAP CER 0.022uf 50V 50% 10X 0805	
CC0805	0.47uf/50V	C0805K474K9C ACTU	C28	CAP CER 0.47UF 50V 10% 10X 0805	
CC0805	12pf/50V	CL12C120FBA NNC	C36, C42	CAP CER 12pf 50V 0805	
CC0805	10pf/100V	8005A100FA72 NNC	C41, C43	CAP CER 10pf 100V 0805	
0805/LED 0805/LED	DNP Orange	LTST-C171GT LTST-	D1, D4	SMD Green LED SMD Orange LED	
1206 IN0805	300mA/100mV 3A	0437.375WVR BLMCP12300S	F1, F2	Surface Mount SMD FA 4A Ferrite Bead 300 mA 100mHz	
0805	OR	CRCV08050000 ZOEIA	J_V1, J_V2, J_V3, J_V4, J_V5, J_V6, R1, R2, R3, R4, R5, R6, R8, R9, R10, R13, R14, R15	RES OR OHM 1/16W JUMPER 0805	16
HDR6 PicoBlade HBR110	Header, 6-Pin	53386-06T1	P2, P6	Header, 6-Pin, Right Angle	2
HDR 10X HBR110H	DNP	4-103327-5	P3	Header, 4-Pin	
0805	12K	PCF0805R- 16K68T1	P4	Header, 3-Pin, Right Angle	
0805	10k	CRCV080510K JPKFA	R1, R7	Header, 2-Pin, Right Angle RES 1.65K Ohm 1/10W 0.1% 0805	
0805	DNP	RL1220S-R20-F RL1220S-R20-F RC0805FR- 07HL RC0805FR- 07HL	R2, R3, R20, R21, R22, R23, R24, R25, R26, R30, R31, R32, R33, R34, R35, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R48 R16, R17, R26, R47	RES 0.2 OHM -0.2W 1% 0805, RES 0.2 OHM -0.2W 1% 0805, RES 1.0K OHM 1/8W 1% 0805, RES 1.0K OHM 1/8W 1% 0805	26
0805	47k	RC0805FR- 0747HL	R18, R27, R36	RES 47K OHM 1/10W 1% 0805	3
0805	330R	RC0805FR- 0733RL	R19	RES 33K OHM 1/10W 1% 0805	
1206 - ohmsIO	05R/0.5V	LVK1206DOIDE S1	R28	Current Sense Resistors - SMD I/O 0.5ohm 5x4 Terminal	
sEO_CARD	WM1283CACT- NO	WM1283CACT- NO	RSense	MicroSD CARD Connector	
SOT-23 BLV NSOP-8	TLV341ADBVR MA0953ATUA+	TLV341ADBVR MA0953ATUA+	U1, U2, U4, U12	TLV341ADBVR MAX935ATUA+	
LOGA20	MPU-9250	MPU-9250	U5	SMD	
GFN24P3000 3000X15-25N	MPU-9250	MPU-9250	U6	SMD Gyro/Accelerometer/Magnetometer Sensor: 9-Axis	
1HTTS30P	DNP	DRV8833PWPR	U7, UB	DRV8833PWPR	
P2Z103A,N	MSP430CF6658 P2R	MSP430CF6658 P2R	UB	Imported	
DBV005A,N	TP33823- 33QOBVR01	TP33823- 33QOBVR01	U10	Processor Supervisory Circuit, 1 Supply Monitored, -40 to 85 deg.C, 5Pin SOT-23 (DBV), Green (RoHS & no Sb(Br))	
SOC-B SOC3	REF5030A-Q1 SS25LP125- JBLE	REF5030A-Q1 SS25LP125- JBLE	U11	REF5030A-Q1	
PC104	PC104_IGNERN	ESQ-126-3G- AL	U13, U14, U15	CL FLASH 128MBIT 133MHz ESDI OC	
XTAL_ABMS X	32MHz ±10ppm X	ABMXB-102T, 32.000MHZ-T	U6	PC104	
X3.00MS 0805	32.768kHz 12.5pf	ESQ-127-12.5- 3AS-TR	T2	32MHz ±10ppm Crystal 6pf 0 Ohm - 40°C - 125°C 32.768kHz ±30ppm Crystal 12.5pf 70 kOhm -40°C - 125°C	

Approved	Notes
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Notes:

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