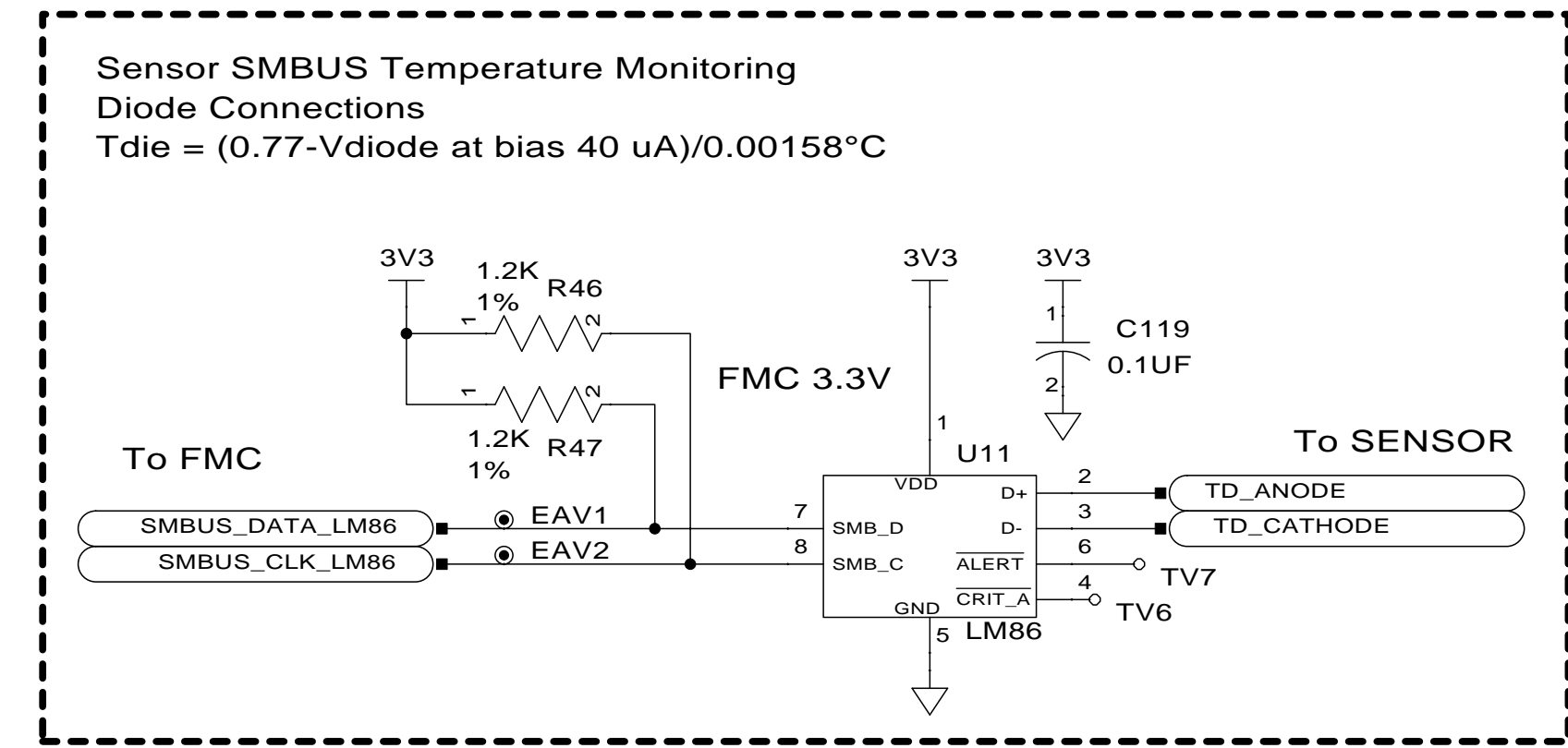
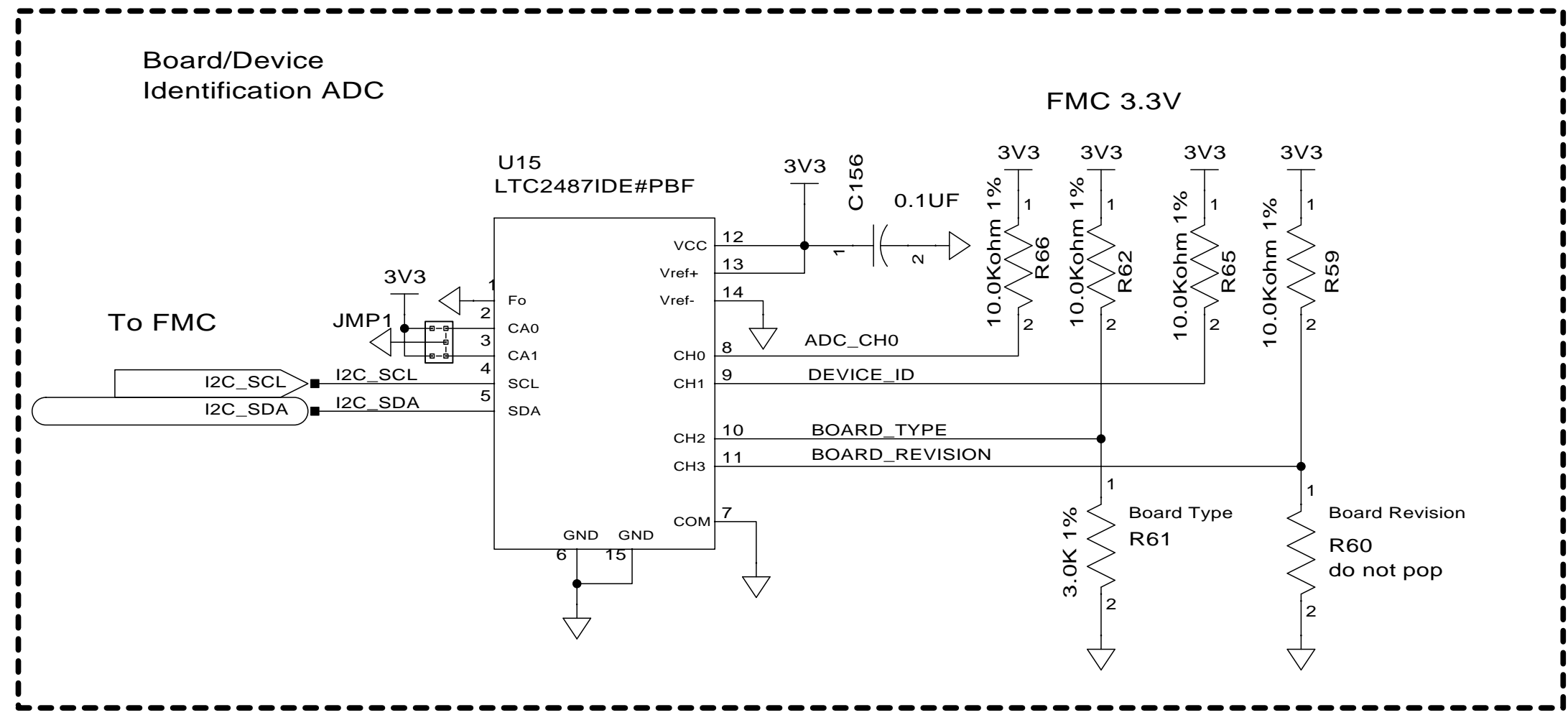
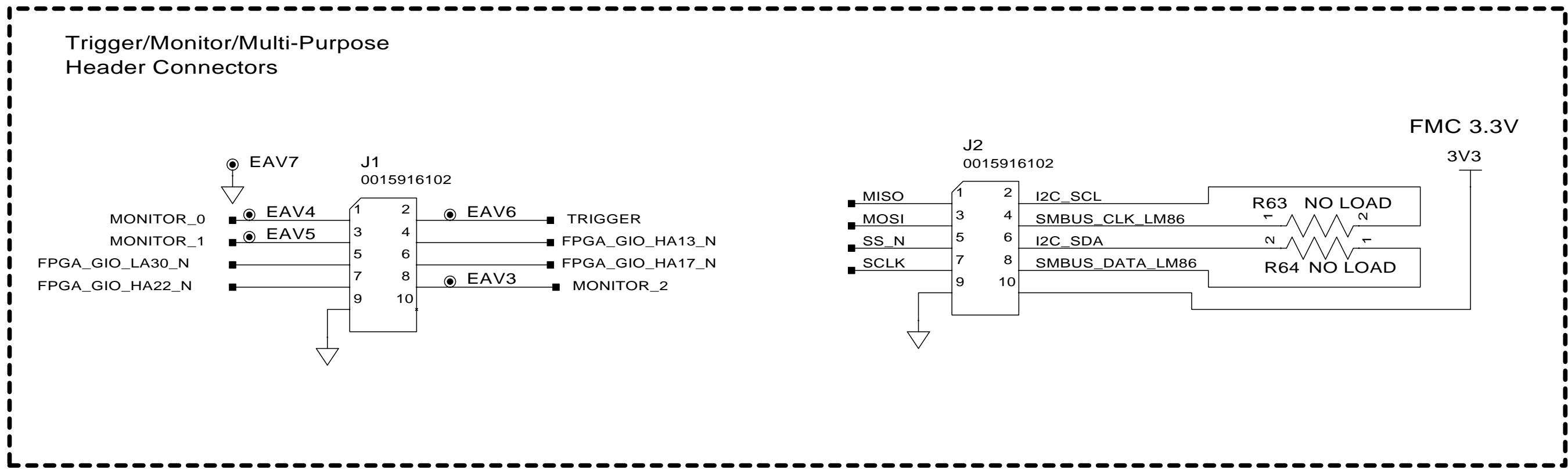
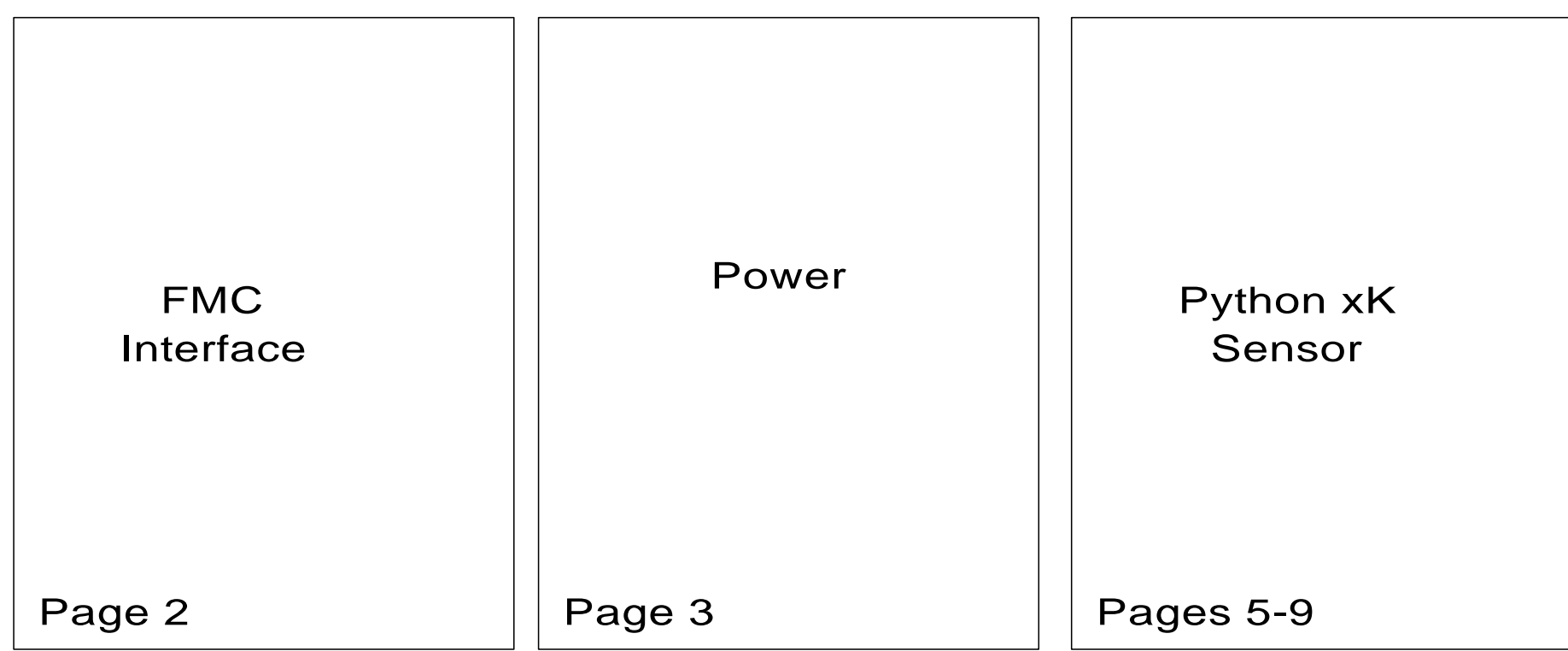
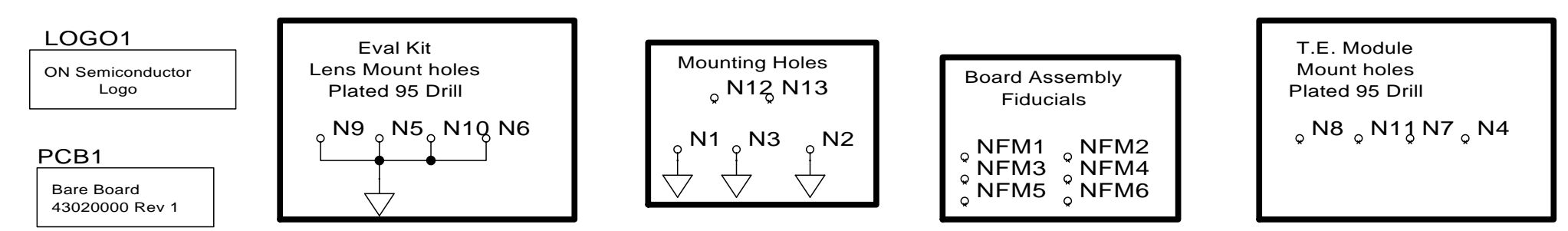


REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

Schematic Subsections



Board Hardware and Mounting Holes



UNLESS OTHERWISE SPECIFIED				MATERIAL		DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE IS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor	
DIM. ARE IN				FINISH		DR		NAME	
2 PL DEC TOL ±				✓		QA CHK		PYTHON xK	
3 PL DEC TOL ±						ENGR		FMC REFERENCE PCB	
ANGULAR TOL ±						ENGR		Brian Tobey	
SURF ROUGHNESS						ECN NO.		SIZE	
EDGES						REL DATE		D	
INSIDE RADII						01/19/2015		DWG NO.	
NEXT ASSY		USED ON		NEXT ASSY		FINAL ASSY		PCB # 43020000 REV 1	
APPLICATION		QUANTITY REQD		REL DATE		01/19/2015		ASSEM # 43020001 REV 1	
				SCALE		PROGRAM CADSTAR		SHEET 1 of 9	

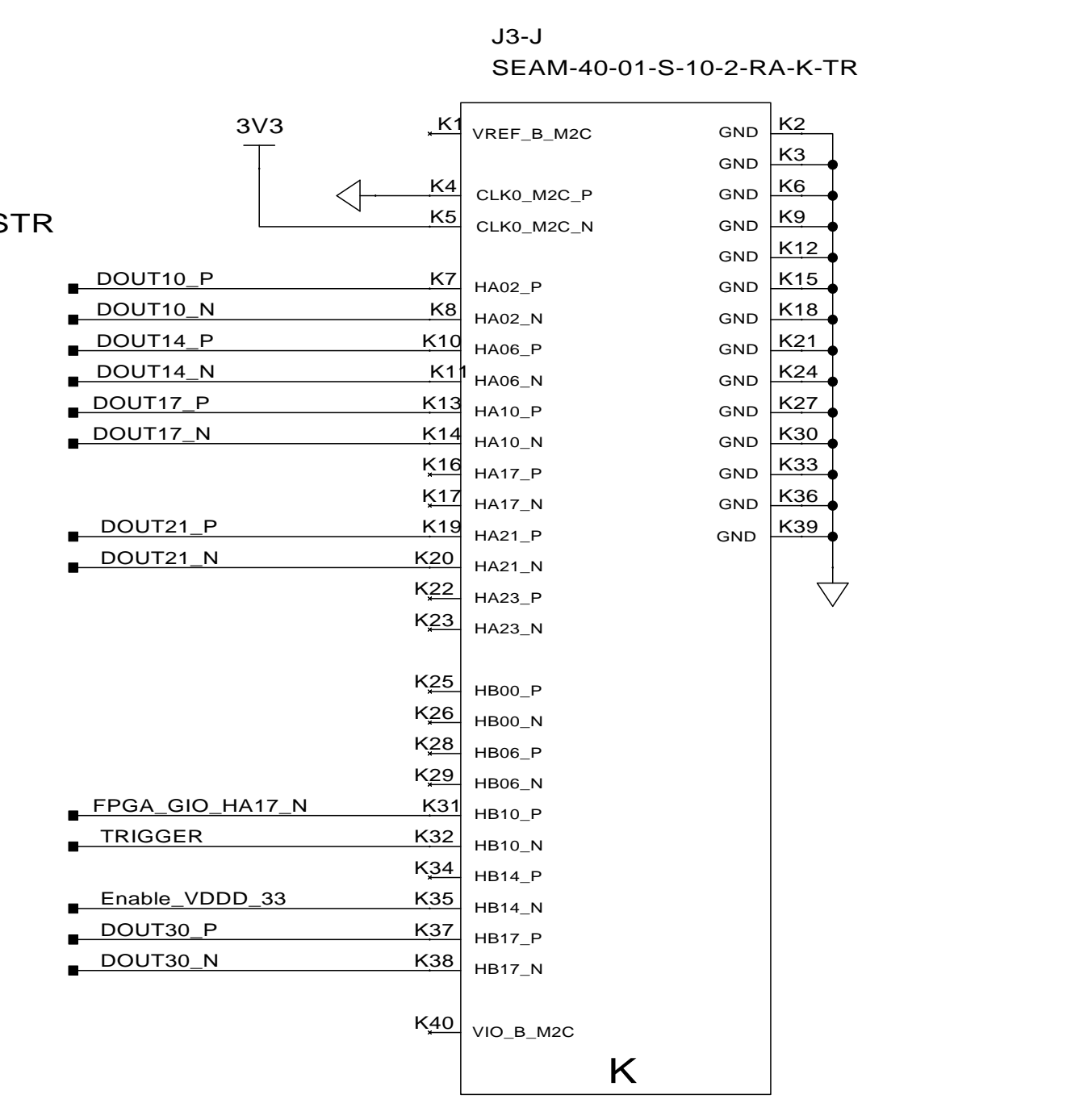
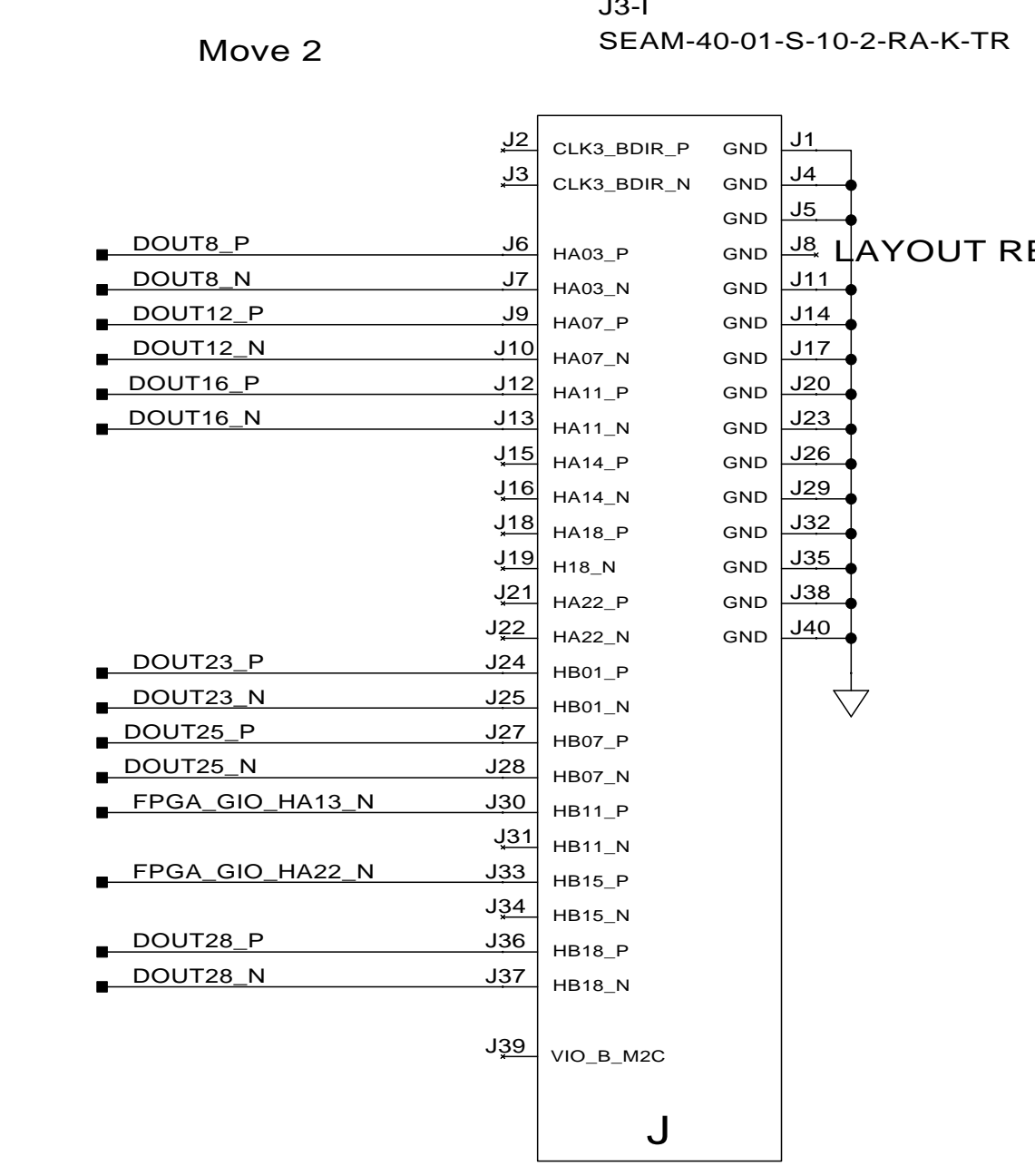
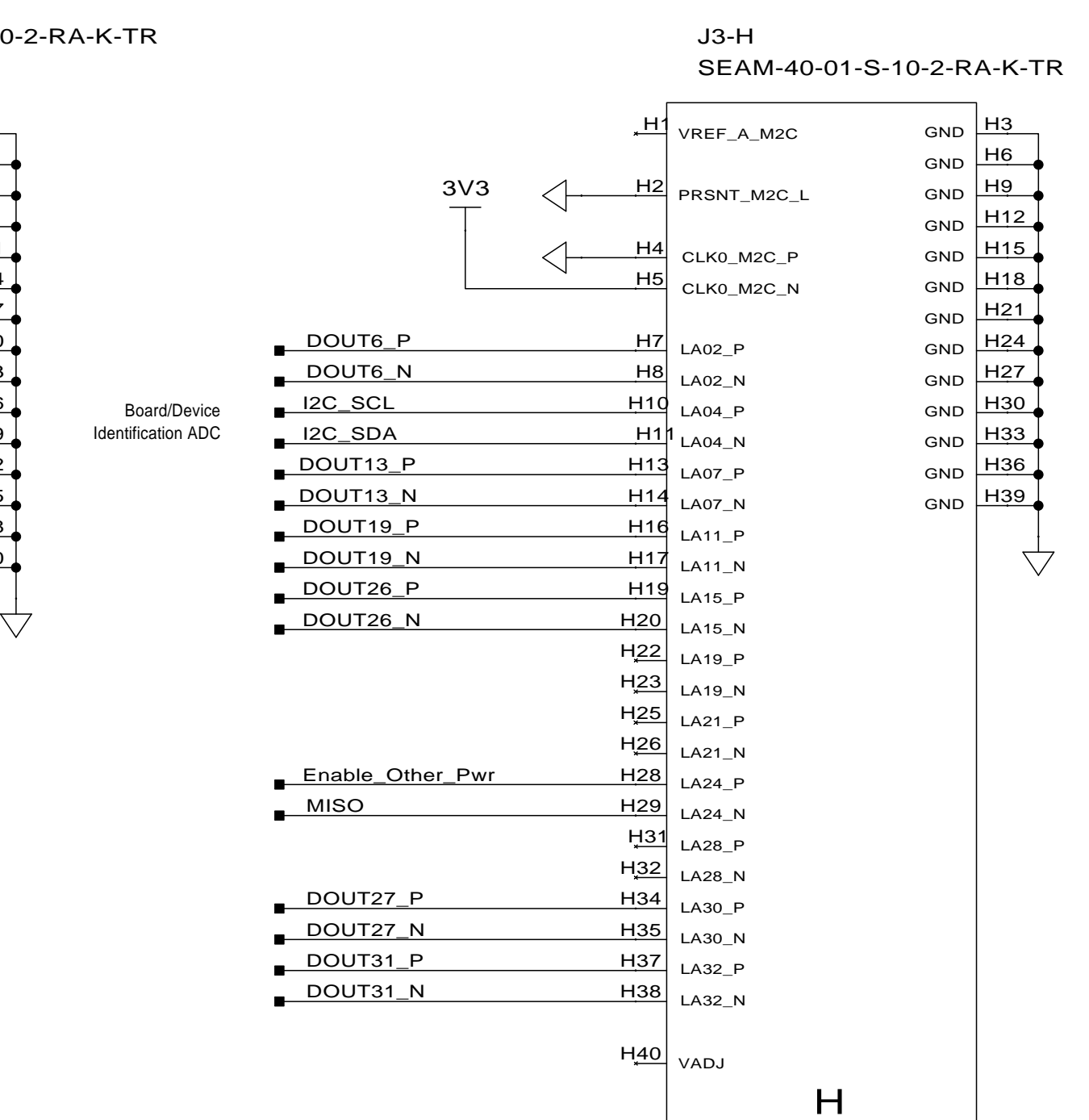
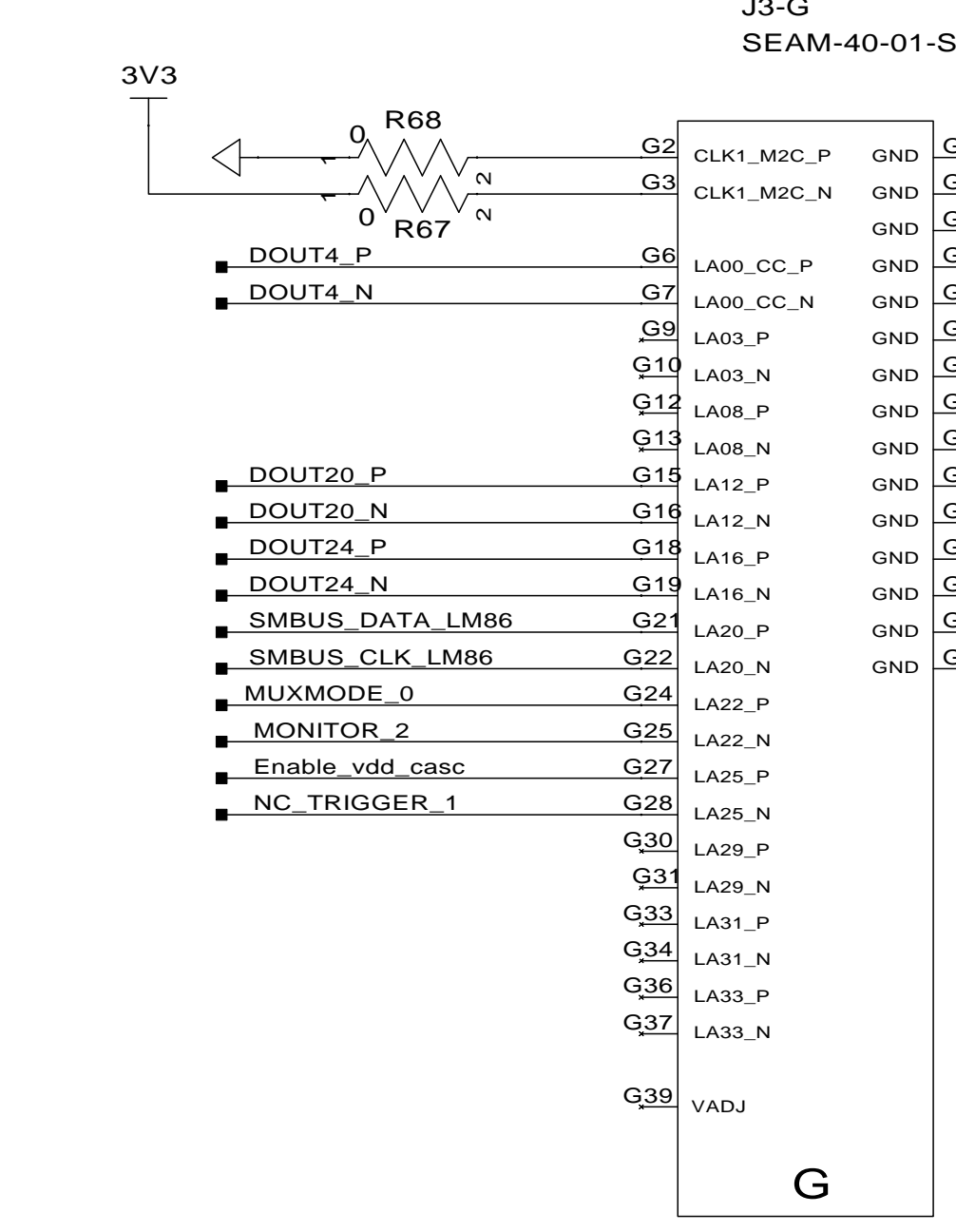
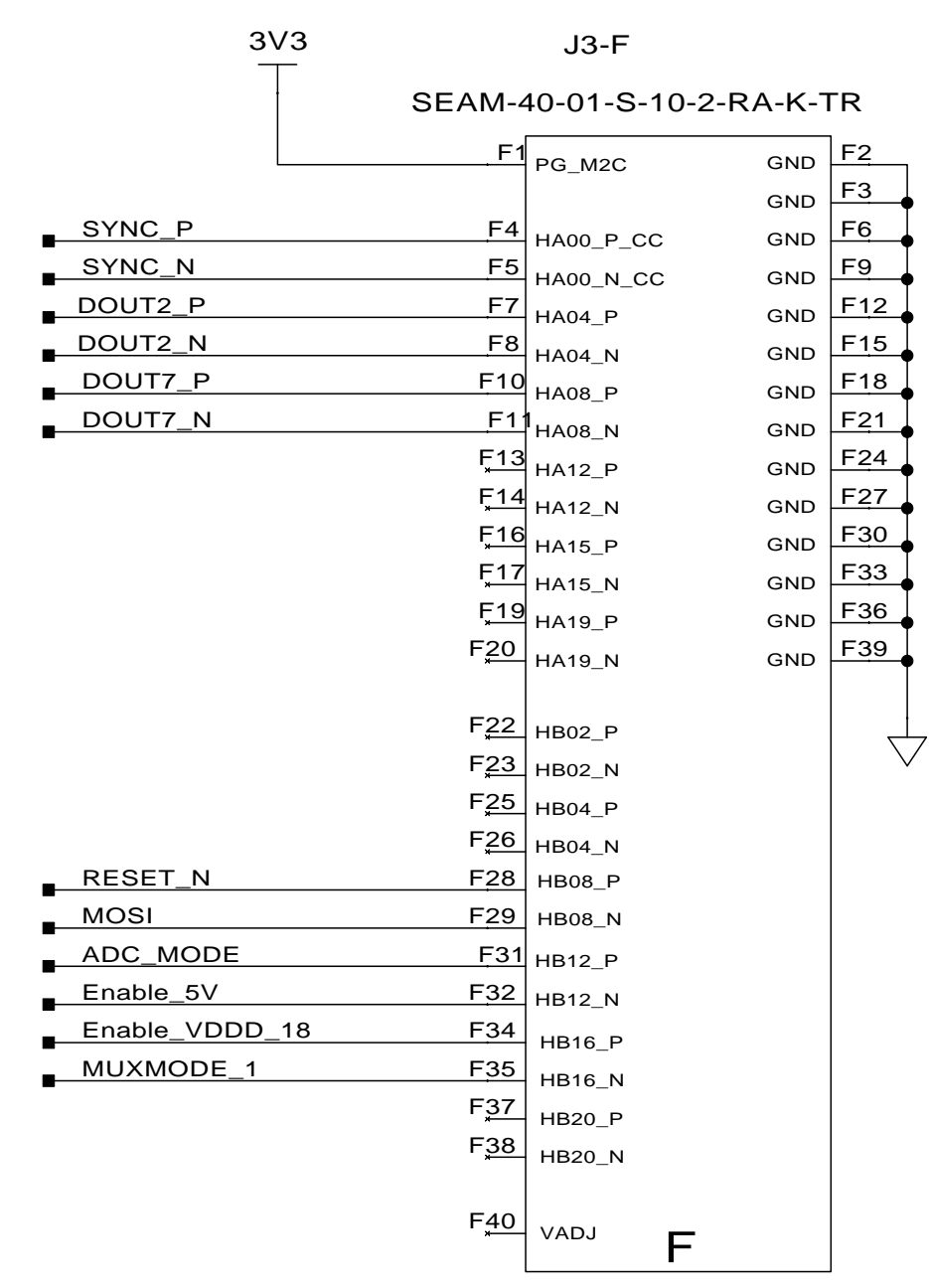
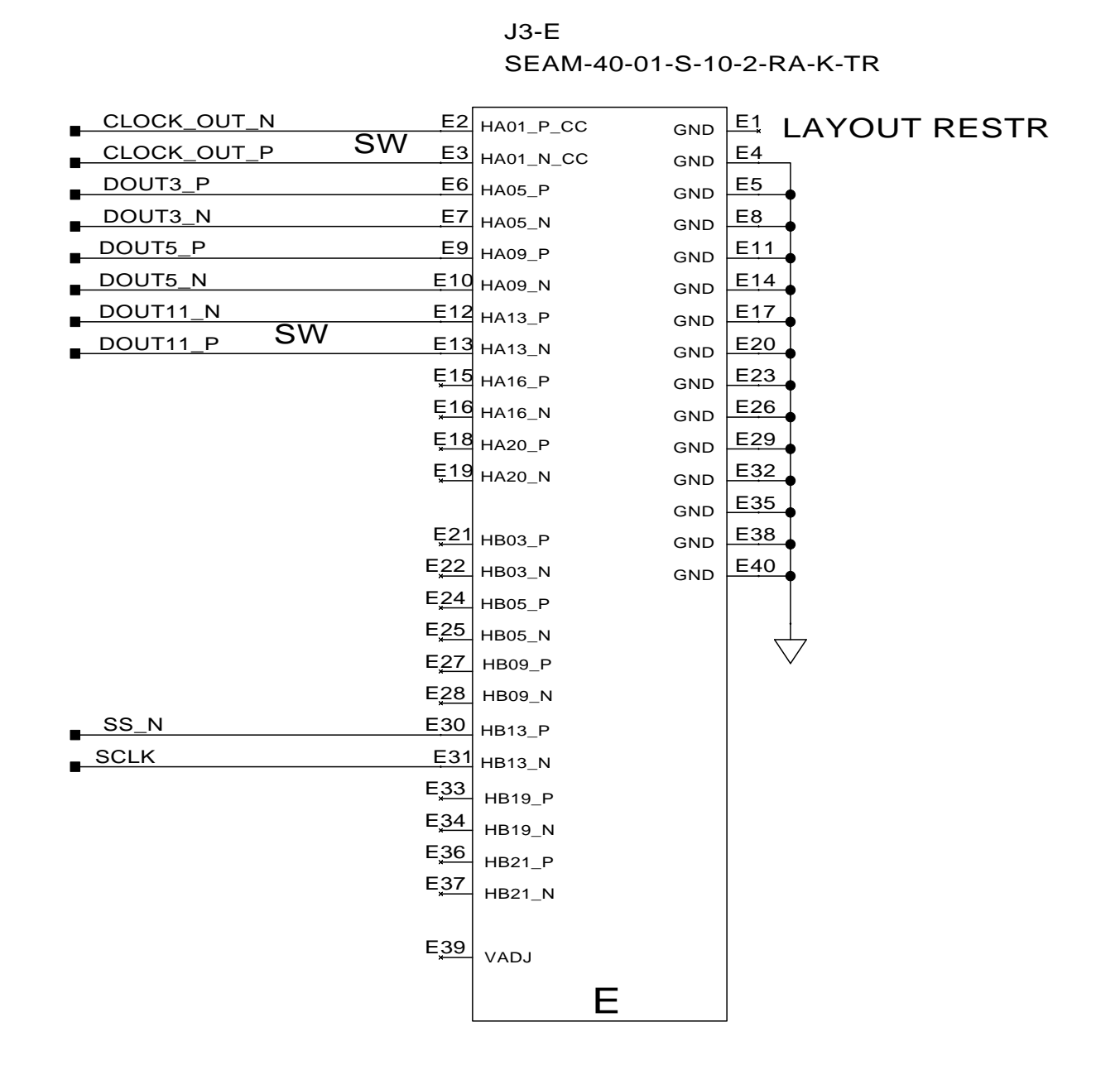
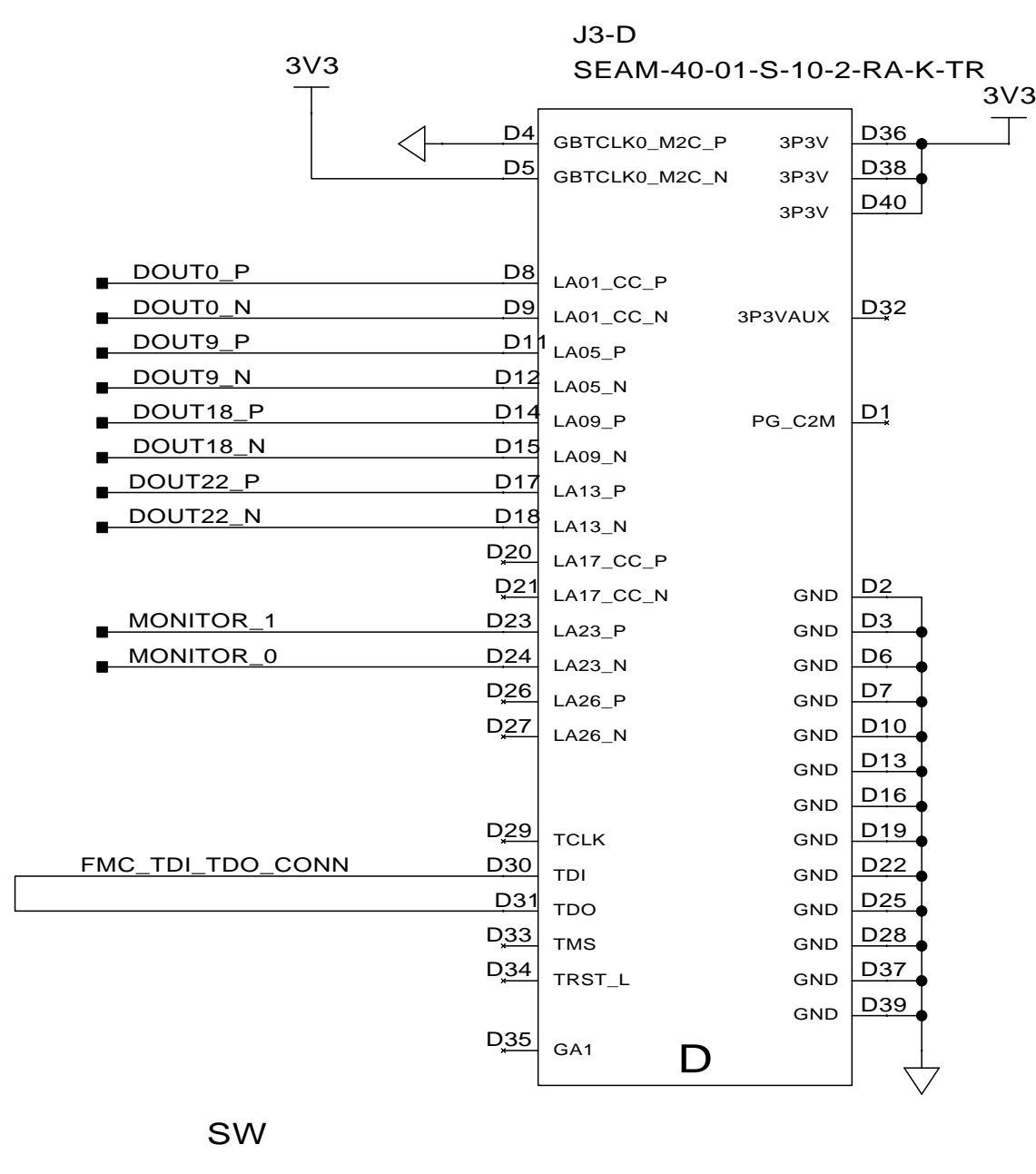
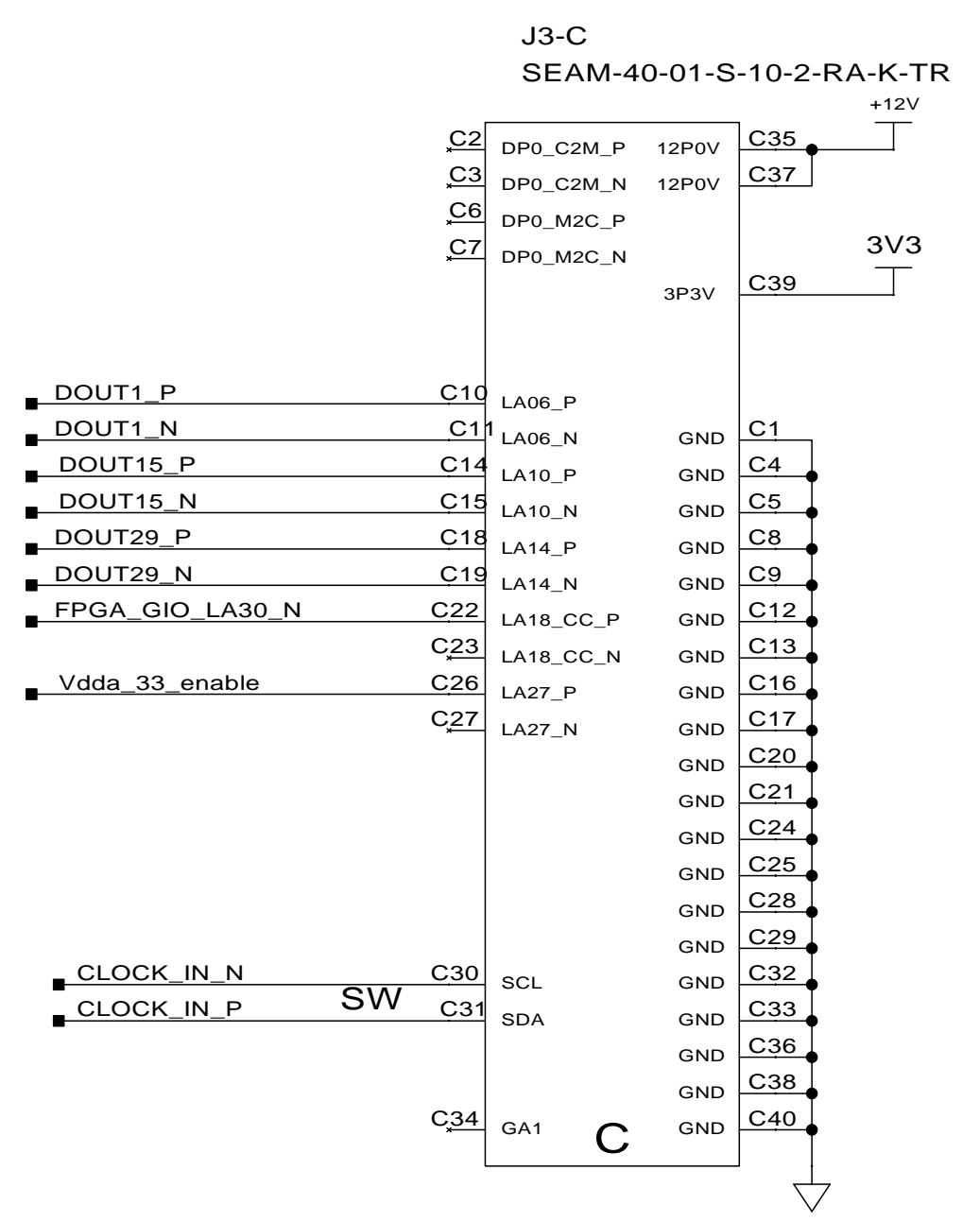
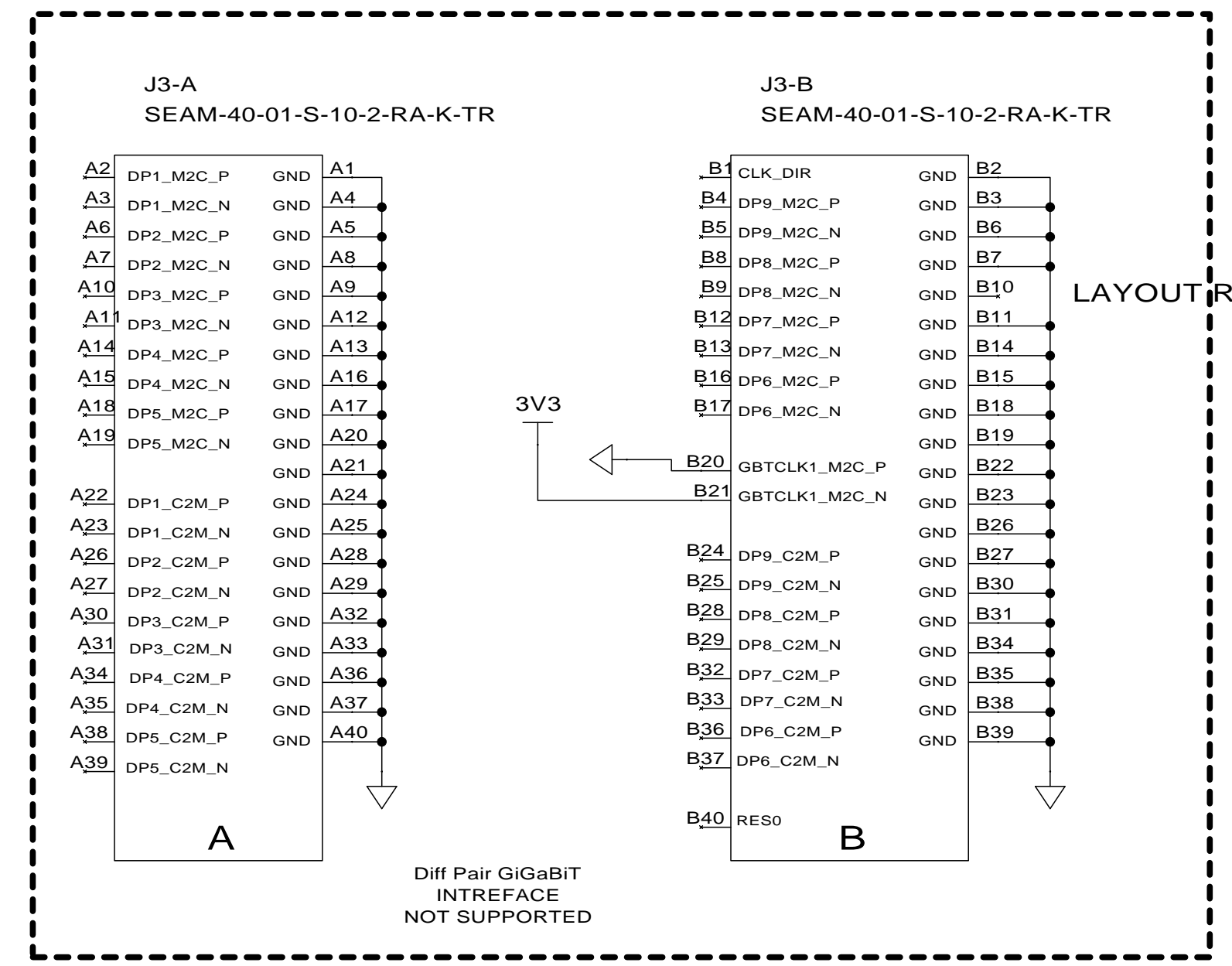
Board Top Level

ON Semiconductor	
NAME	
PYTHON xK	
FMC REFERENCE PCB	
SIZE	D
DWG NO.	PCB # 43020000 REV 1
	ASSEM # 43020001 REV 1
SCALE	PROGRAM CADSTAR
SHEET	1 of 9

8 7 6 5 4 3 2 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

NOTE: SOME GROUND ROUTING PINS DISCONNECTED DUE TO LAYOUT ROUTING RESTRICTIONS



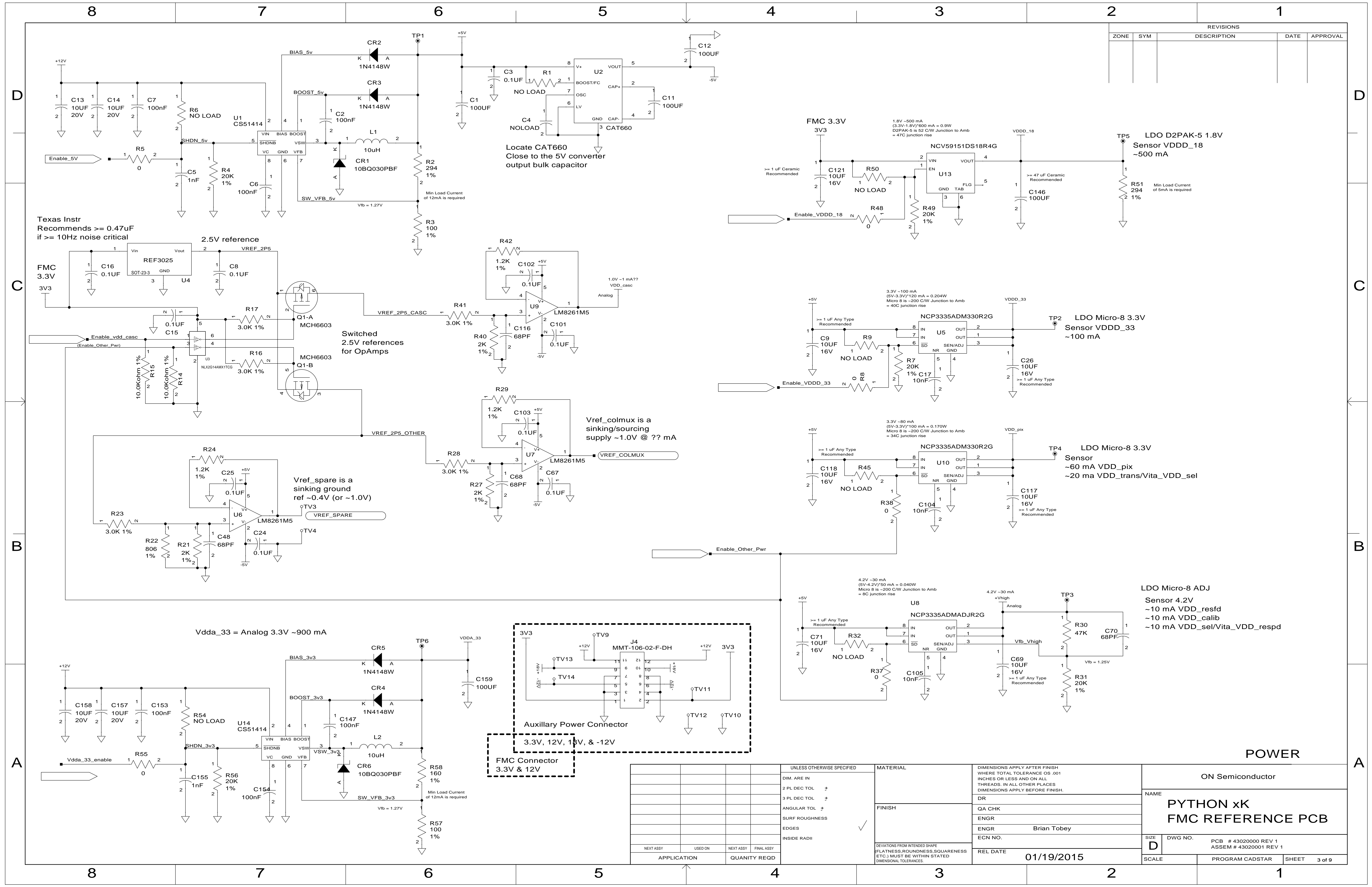
UNLESS OTHERWISE SPECIFIED				MATERIAL		DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE 0S .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor	
DIM. ARE IN				FINISH		DR		NAME	
2 PL DEC TOL +				✓		QA CHK		PYTHON xK	
3 PL DEC TOL +				✓		ENGR		FMC REFERENCE PCB	
ANGULAR TOL +				✓		ENGR		Brian Tobey	
SURF ROUGHNESS				✓		ECN NO.		SIZE	
EDGES				✓		REL DATE		D	
INSIDE RADII				✓		01/19/2015		DWG NO.	
NEXT ASSY		USED ON		NEXT ASSY		PCB # 43020000 REV 1		ASSEM # 43020001 REV 1	
APPLICATION		QUANTITY REQD		REL DATE		01/19/2015		SCALE	
								PROGRAM CADSTAR	
								SHEET 2 of 9	

8 7 6 5 4 3 2 1

FMC Connector

ON Semiconductor
 NAME
PYTHON xK
FMC REFERENCE PCB
 SIZE **D** DWG NO. **PCB # 43020000 REV 1**
ASSEM # 43020001 REV 1
 SCALE PROGRAM CADSTAR SHEET 2 of 9

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



UNLESS OTHERWISE SPECIFIED	MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE IS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.	ON Semiconductor
DIM. ARE IN	FINISH	DR	NAME
2 PL DEC TOL ±	✓	QA CHK	PYTHON xK
3 PL DEC TOL ±		ENGR	FMC REFERENCE PCB
ANGULAR TOL ±		ENGR	Brian Tobey
SURF ROUGHNESS		ECN NO.	
EDGES		REL DATE	01/19/2015
INSIDE RADII		SCALE	PROGRAM CADSTAR SHEET 3 of 9
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY
APPLICATION	QUANTITY REQD	REL DATE	01/19/2015

POWER

PCB # 43020000 REV 1	ASSEM # 43020001 REV 1
----------------------	------------------------

8 7 6 5 4 3 2 1

Recommended Sensor Socket:
Andon Electronics Corporation
(www.andonelectronics.com)
10-31-13A-355-400T4-R27-L14

Socketed PYTHON xK
The Device is a 355 pin uPGA
so all pins are accessible

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

Sensor Control and Misc I/O
Gate A

Page 5

Sensor LVDS
Gate B

Page 6

Sensor Analog and Spare I/O
Gate C

Page 7

Sensor Power
Gate D

Page 8

Substrate Connection vs NOT connected?
3.3V domain vs 1.8V domain?
Analog vs digital designations?
High current column bias and precharge?

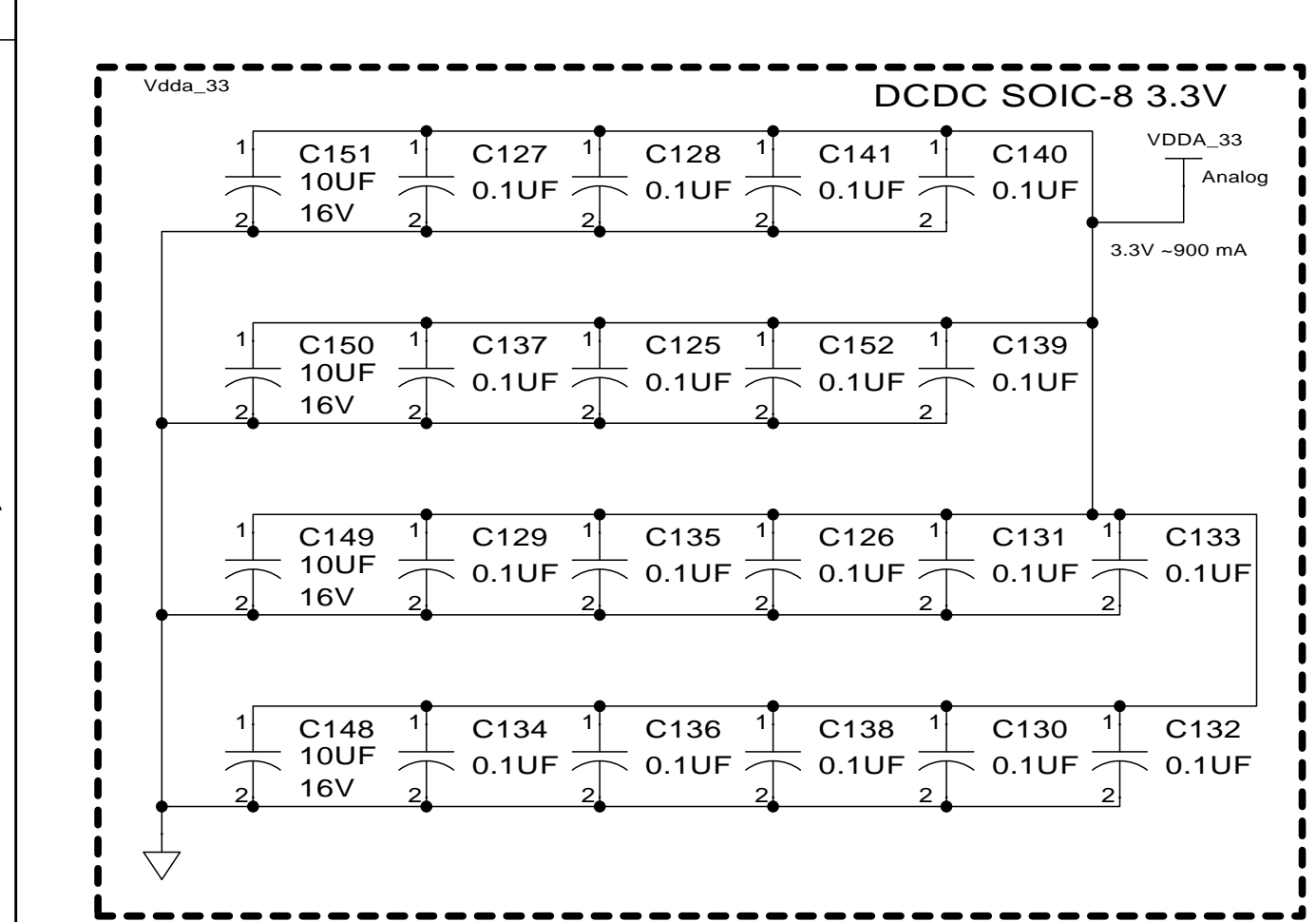
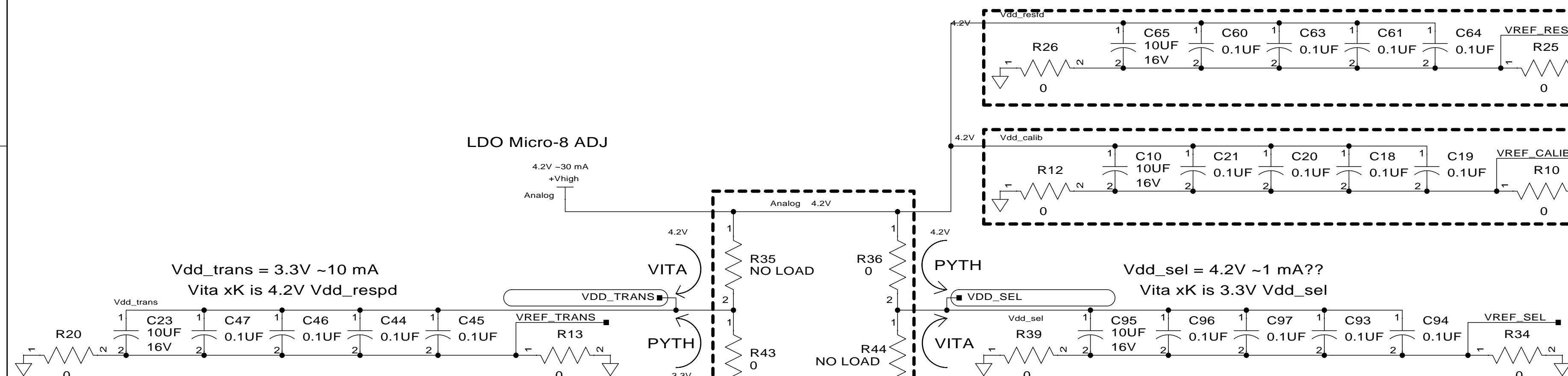
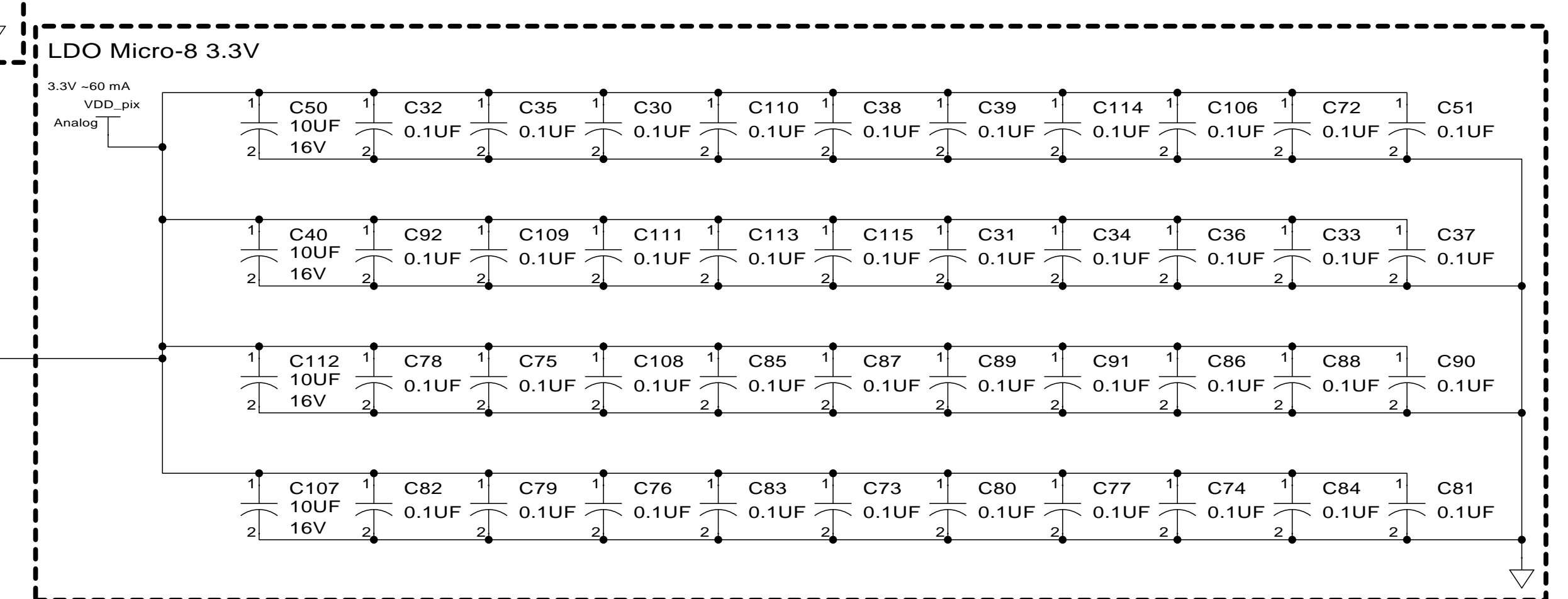
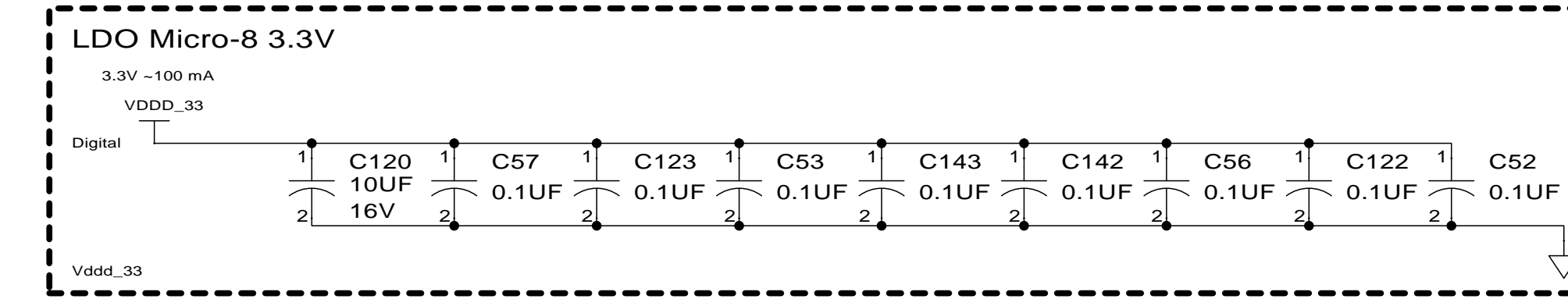
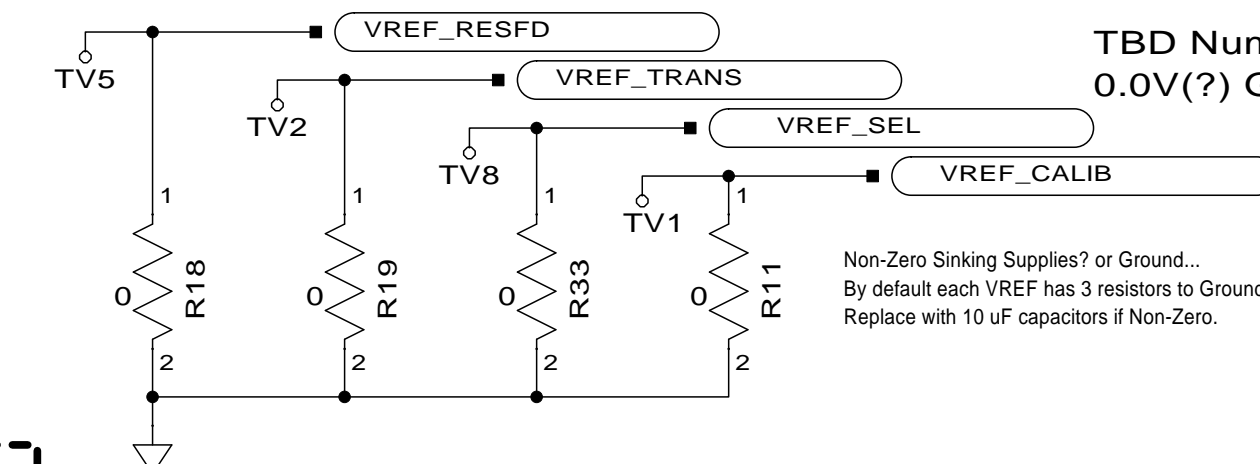
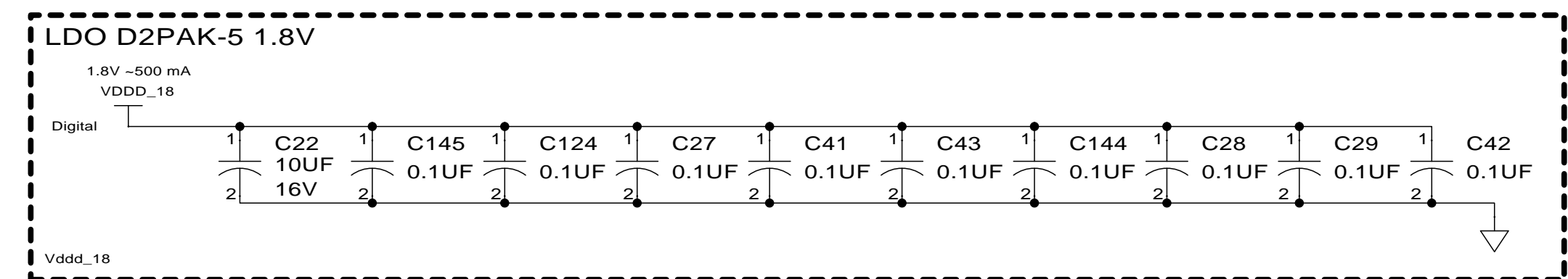
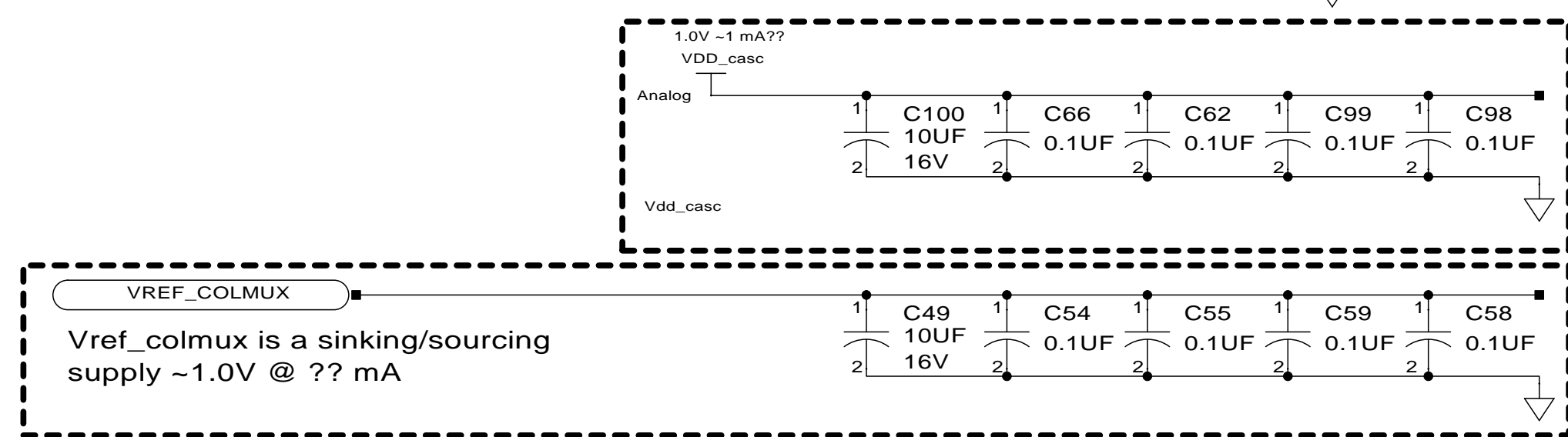
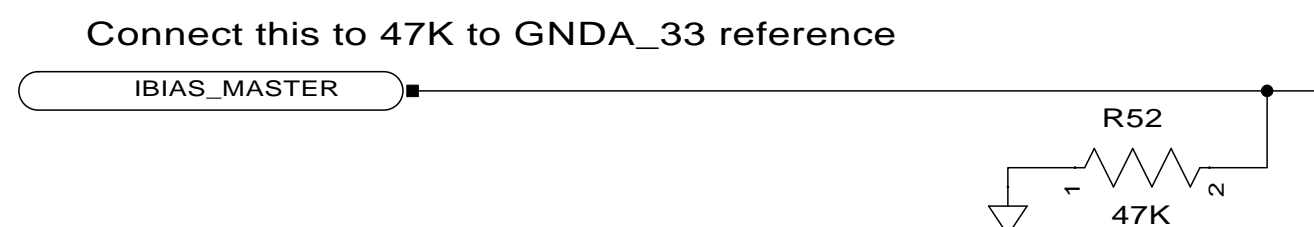
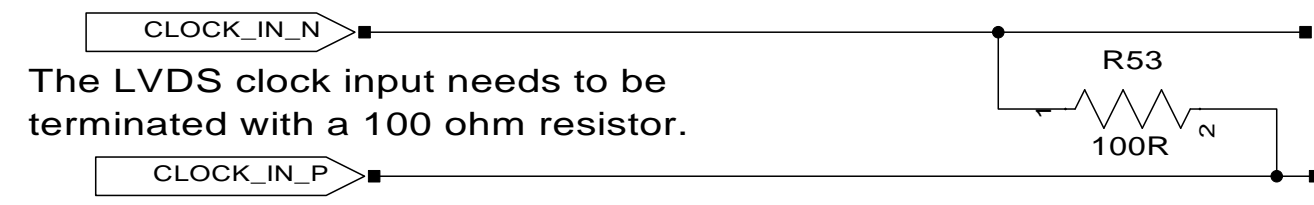
Sensor Ground
Gate E

Page 9

Digital I/O is 3/3.3V CMOS
per JEDEC Standard (JEDEC-JESD8C-01)

LVDS I/O is LVDS (EIA/TIA-644) with
additional specifications and deviations listed
in Publication Order Number: NOIP1SN010KA/D

Temperature Monitoring
Diode Connections
 $T_{die} = (0.77 - V_{diode} \text{ at bias } 40 \mu\text{A}) / 0.00158^\circ\text{C}$



NOTE:
Vita xK Swap
VDD_PIX is an Analog 3.3V for Python xK so we will use the same supply.

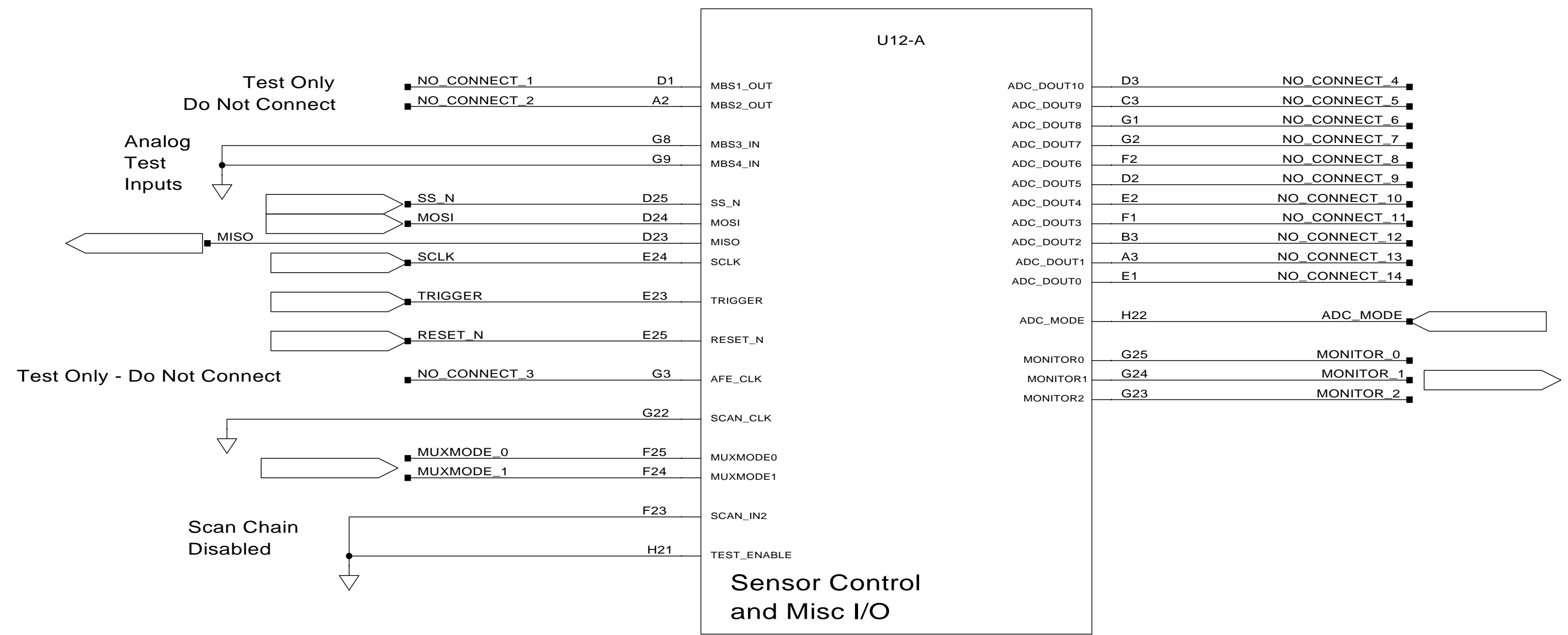
Sensor Top Level

UNLESS OTHERWISE SPECIFIED		MATERIAL		DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE 0S .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor	
DIM. ARE IN		FINISH		DR		NAME	
2 PL DEC TOL ±		✓		QA CHK		PYTHON xK	
3 PL DEC TOL ±		✓		ENGR		FMC REFERENCE PCB	
ANGULAR TOL ±		✓		ENGR Brian Tobey		SIZE D	
SURF ROUGHNESS		✓		ECN NO.		DWG NO. PCB # 43020000 REV 1 ASSEM # 43020001 REV 1	
EDGES		✓		REL DATE		SCALE	
INSIDE RADII		✓		01/19/2015		PROGRAM CADSTAR SHEET 4 of 9	
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY				
APPLICATION	QUANTITY REQD						

8 7 6 5 4 3 2 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

Digital I/O is 3/3.3V CMOS
per JEDEC Standard (JEDEC-JESD8C-01)



Sensor Control and Misc I/O

UNLESS OTHERWISE SPECIFIED				MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE IS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.	ON Semiconductor	
DIM. ARE IN				FINISH		NAME	
2 PL DEC TOL ±					DEVIATIONS FROM INTENDED SHAPE (FLATNESS, ROUNDNESS, SQUARENESS, ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.	PYTHON xK	
3 PL DEC TOL ±				DR		FMC REFERENCE PCB	
ANGULAR TOL ±					QA CHK	SIZE D	
SURF ROUGHNESS				ENGR	DWG NO. PCB # 43020000 REV 1		
EDGES				ENGR Brian Tobey	ASSEM # 43020001 REV 1		
INSIDE RADII				ECN NO.	REL DATE 01/19/2015		
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY	REL DATE	SCALE	PROGRAM CADSTAR	SHEET 5 of 9
APPLICATION		QUANTITY REQD					

8 7 6 5 4 3 2 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

LVDS I/O is LVDS (EIA/TIA-644) with additional specifications and deviations listed in Publication Order Number: NOIP1SN010KA/D

The clock input needs to be terminated with a 100 ohm resistor.



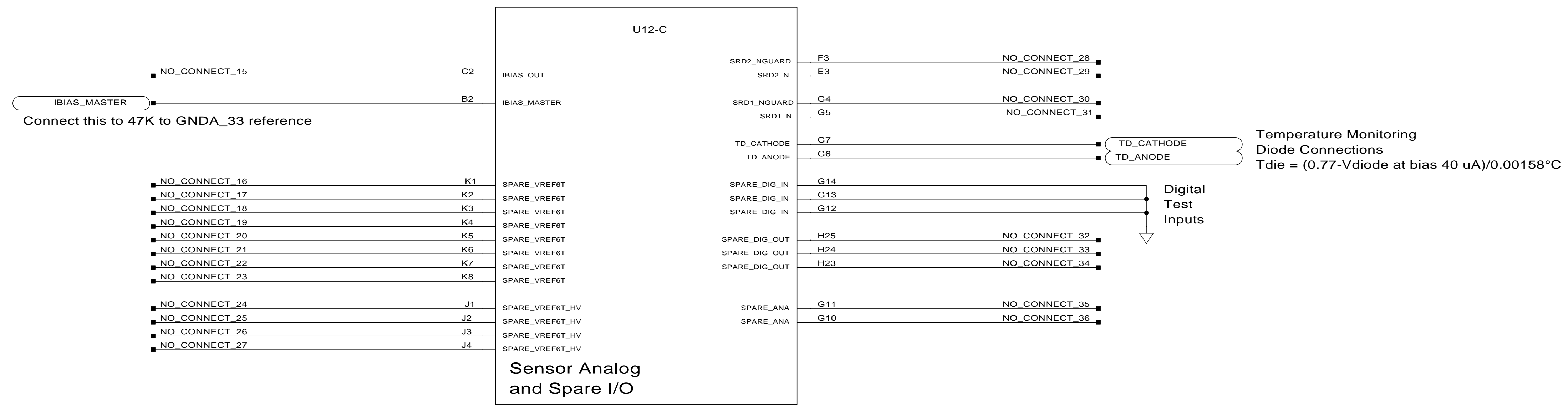
Sensor LVDS

Sensor LVDS Interface

UNLESS OTHERWISE SPECIFIED				MATERIAL		DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE IS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor	
DIM. ARE IN				FINISH		DR		NAME	
2 PL DEC TOL ±				DEVIATIONS FROM INTENDED SHAPE (FLATNESS, ROUNDNESS, SQUARENESS ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.		QA CHK		PYTHON xK	
3 PL DEC TOL ±						ENGR		FMC REFERENCE PCB	
ANGULAR TOL ±						ENGR Brian Tobey		SIZE D	
SURF ROUGHNESS						ECN NO.		DWG NO. PCB # 43020000 REV 1	
EDGES						REL DATE 01/19/2015		ASSEM # 43020001 REV 1	
INSIDE RADII						SCALE		PROGRAM CADSTAR SHEET 6 of 9	
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY						
APPLICATION		QUANTITY REQD							

8 7 6 5 4 3 2 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

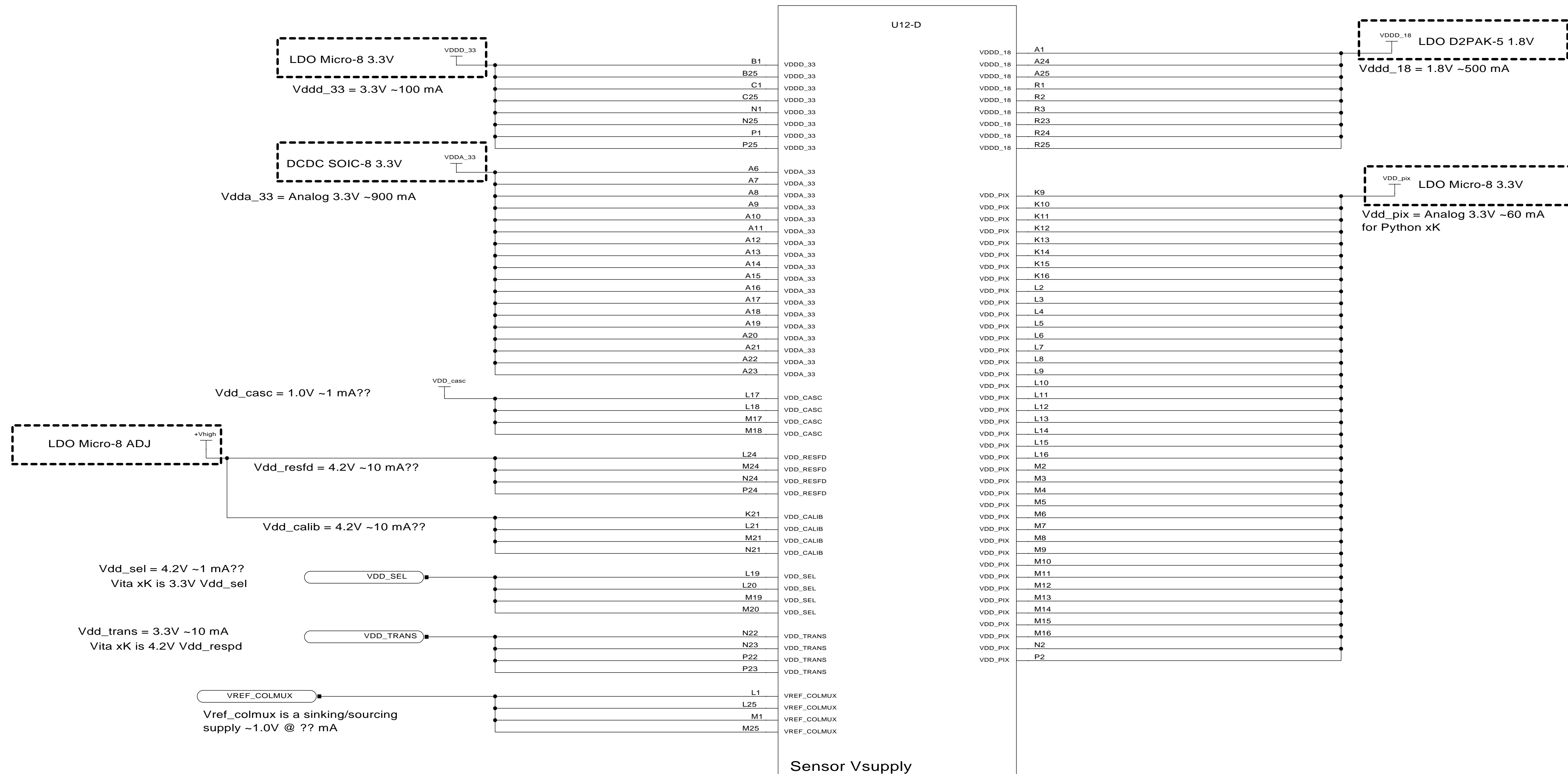


Sensor Analog and Spare I/O

UNLESS OTHERWISE SPECIFIED				MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE 0S .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.	ON Semiconductor	
DIM. ARE IN				FINISH	QA CHK ENGR ENGR Brian Tobey ECN NO.	NAME	
2 PL DEC TOL ±						PYTHON xK	
3 PL DEC TOL ±						FMC REFERENCE PCB	
ANGULAR TOL ±						SIZE D	DWG NO. PCB # 43020000 REV 1 ASSEM # 43020001 REV 1
SURF ROUGHNESS						REL DATE 01/19/2015	SCALE
EDGES				FLATNESS, ROUNDNESS, SQUARENESS (ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.	PROGRAM CADSTAR	SHEET 7 of 9	
INSIDE RADII							
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY				
APPLICATION		QUANTITY REQD					

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

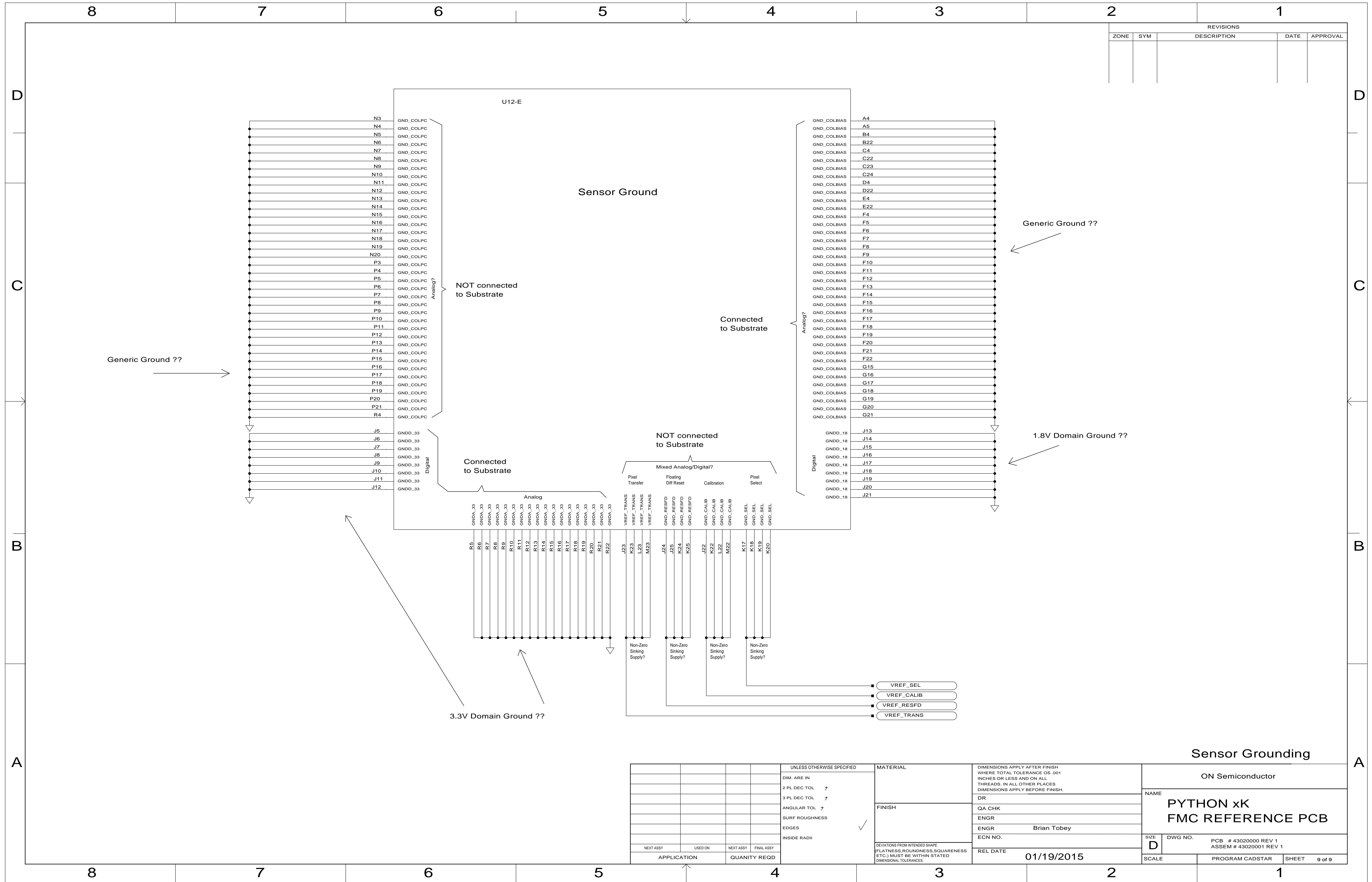
TBD Number of separate(?) Power Supplies



// Supply	Device Rev	VITA xK REV	PYTHON xK REVA	REVB
SETUP. VDDCASC = 1.0;	//	VDDCASC	-----	-----
SETUP. VDDCOLMX = 1.0;	//	VDDCOLMX	-----	-----
SETUP. VDDPIX = 3.3;	//	VDDPIX	-----	-----
SETUP. VDDTRANS = 3.3;	//	VDDRESPD	VDDTRANS	-----
SETUP. VDDCALIB = 4.2;	//	VDDTRANS	VDDSAMPLE	VDDCALIB
SETUP. VDDRESFD = 4.2;	//	VDDRESFD	-----	-----
SETUP. VDDSEL = 4.2;	//	VDDSEL	-----	-----
SETUP. GNDTRANS = ?. ?;	//	GNDRESPD	GNDTRANS	-----
SETUP. GNDCALIB = 0.0;	//	GNDTRANS	GNSAMPLE	GNDCALIB
SETUP. GNDRESFD = ?. ?;	//	GNDRESFD	-----	-----
SETUP. GNDSEL = 0.0;	//	GNDSEL	-----	-----

UNLESS OTHERWISE SPECIFIED				MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE IS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.	Sensor Power	
2 PL DEC TOL	+				DR	ON Semiconductor	
3 PL DEC TOL	+				QA CHK	NAME PYTHON xK	
ANGULAR TOL	+				ENGR	FMC REFERENCE PCB	
SURF ROUGHNESS					ENGR	Brian Tobey	
EDGES					ECN NO.	SIZE D	DWG NO. PCB # 43020000 REV 1 ASSEM # 43020001 REV 1
INSIDE RADII					REL DATE	01/19/2015	
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY		SCALE	PROGRAM	CADSTAR SHEET 8 of 9
APPLICATION		QUANTITY REQD					

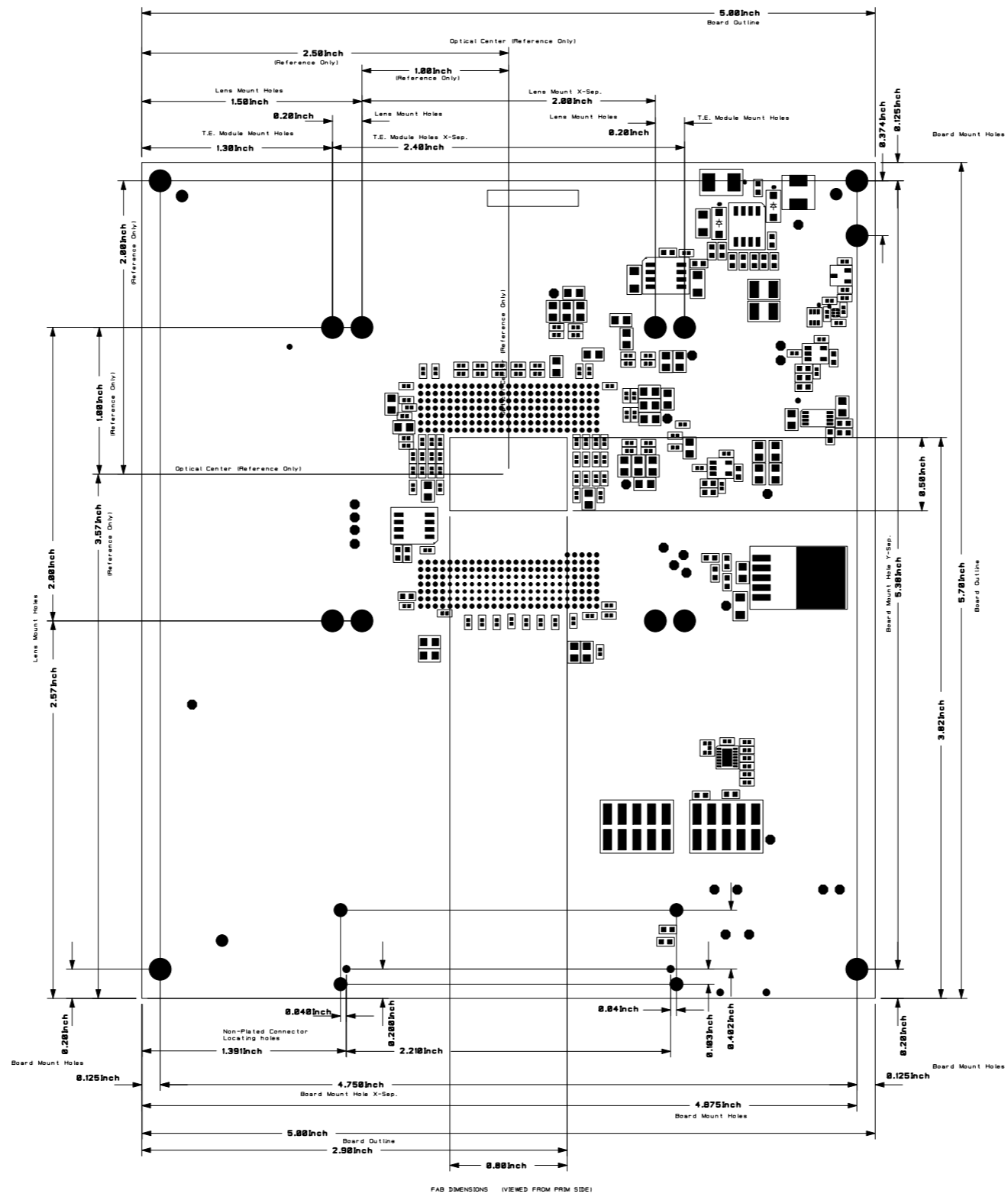
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



Sensor Grounding

UNLESS OTHERWISE SPECIFIED		MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE 0S .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.	ON Semiconductor
DIM. ARE IN		FINISH	DR	NAME
2 PL DEC TOL ±			QA CHK	PYTHON xK FMC REFERENCE PCB
3 PL DEC TOL ±		ENGR	ENGR	
ANGULAR TOL ±		ENGR	Brian Tobey	
SURF ROUGHNESS		ECN NO.		
EDGES		REL DATE	01/19/2015	
INSIDE RADII		SCALE	PROGRAM CADSTAR	
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY	SHEET 9 of 9
APPLICATION	QUANTITY REQD	REL DATE	01/19/2015	PCB # 43020000 REV 1 ASSEM # 43020001 REV 1

ONSemi-43020000_Rev1														
Monday, March 09, 2015 2:13 PM				New/Addressed Items	email 3/16 - 3/17/2015		email 3/23/2015							
=====				Consigned Parts Highlighted										
Part Name	DESCRIPTION	MFG Part#	Digikey Part#	MFG	PriceCT	PriceTR	Count	PCB REF_NAME	Item #	Load/No Load				
C100UF_1206	CAP 100UF 6.3V X5R	C1206C107M9PAC	399-5620-1-ND	KEMET			5	C1 C11 C12 C146 C159	1	Load				
C10UF_0805_16V_80	CAP 10UF 16VWVDC 80%	GRM218F51C106Z6 15L	490-3347-1-ND	Murata			23	C10 C100 C107 C112 C117 C118 C120 C21 C121 C148 C149 C150 C151 C22 C23 C26 C40 C49 C50 C55 C69 C71 C9 C95	2	Load				
C.1UF_0402	CAP 0.1UF 10% 6.3V X7R	C0402C104K9RACTU	399-4872-1-ND	Kemet			111	C101 C102 C103 C106 C108 C109 C110 C111 C113 C114 C115 C119 C122 C123 C124 C125 C126 C127 C128 C129 C130 C131 C132 C133 C134 C135 C136 C137 C138 C139 C140 C141 C142 C143 C144 C145 C15 C152 C156 C16 C18 C19 C20 C21 C24 C25 C27 C28 C29 C3 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C41 C42 C43 C44 C45 C46 C47 C51 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 C66 C67 C72 C73 C74 C75 C76 C77 C78 C79 C8 C80 C81 C82 C83 C84 C85 C86 C87 C88 C89 C91 C92 C93 C94 C96 C97 C98 C99	3	Load				
C10nF_0603	CAP 10nF 50V X7R	C0603C103K5RAC	399-1091-1-ND	KEMET			3	C104 C105 C17	4	Load				
C68PF_0603	CAP 68PF 50VWVDC 5%	C0603C68D5JGAC	399-1058-1-ND	KEMET			4	C116 C48 C68 C70	5	Load				
C10UF_1210_20V10	CAP 10UF 20VWVDC 10%	TPS8106K020R0500	478-9048-1-ND	AVX			4	C13 C14 C157 C158	6	Load				
C100nF_0603	CAP 100nF 50V X7R	C0603C104K5RAC	399-5089-1-ND	KEMET			6	C147 C153 C154 C2 C6 C7	7	Load				
C1nF_0603_NPO	CAP 1nF 50V NPO	C0603C102J5GAC	399-3293-1-ND	KEMET			2	C155 C5	8	Load				
10BQ030PBF	SCHOTTKY RECTIFIER 1A 30V	10BQ030PBF	10BQ030PBFCT-ND	VISHAY SEMICONDUCTOR			2	CR1 CR6	9	Load				
1N4148W	DIODE FAST SWITCHING 1A 100V	1N4148W-V-G508	1N4148W-E3-08CT-ND	VISHAY SEMICONDUCTOR			4	CR2 CR3 CR4 CR5	10	Load				
HDR_100_2X5_SMT	HEADER ASSY 10 POS 2 ROW SMT	0015916102	WM3699CT-ND	MOLEX			2	J1 J2	11	Load				
SEAM-40-01-S-10-2-RA-K-TR	FMC Module Connector	SEAM-40-01-S-10-2-RA-K-TR	SAMTEC	SAMTEC			1	J3	12	Load				
HDR_MMT_106_02_F-DH	HEADER 6x2 PINS SMT	MMT-106-02-F-DH	SAMTEC	SAMTEC			1	J4	13	Load				
IHLP2020BZER100M11	INDUCTOR 10UH 2.2A 20% SMD	IHLP2020BZER100M11	541-1225-1-ND	VISHAY DALE			2	L1 L2	14	Load				
MCH6603-TL-H	MOSFET 2P-CH 50V 0.14A Logic Level Gate 1.5V Drive	MCH6603-TL-H	Consigned Part (100 pcs)	On-Semi			1	Q1	15	Load				
RO_0805	RESISTOR 0	CRCW0805000020EA	541-0.0ACT-ND	VISHAY DALE			14	R10 R11 R12 R13 R18 R19 R20 R25 R26 R33 R34 R36 R39 R43	16	Load				
R1002_0402	RESISTOR 10K ohm 1/16W 1%	ERJ-2RKF1002X	P10.0KLC1-ND	Panasonic			6	R14 R15 R59 R62 R65 R66	17	Load				
R3001_0402	RESISTOR 3.0K ohm 1/16W 1%	ERJ-2RKF3001X	P3.00KLC1-ND	Panasonic			6	R16 R17 R23 R28 R41 R61	18	Load				
R2940_0603	RESISTOR 294 1/10W 1%	CRCW0603294RFKEA	541-294HCT-ND	VISHAY DALE			2	R2 R51	19	Load				
R2001_0603	RESISTOR 2K 1/16W 1%	CRCW06032K00FKEA	541-2.00KHCT-ND	VISHAY DALE			3	R21 R27 R40	20	Load				
R8060_0603	RESISTOR 806 ohm 1/10W 1%	CRCW0603806RFKEA	541-806HCT-ND	VISHAY DALE			1	R22	21	Load				
R1201_0603	RESISTOR 1.2K 1/10W 1%	CRCW06031K20FKEA	541-1.20KHCT-ND	VISHAY DALE			5	R24 R29 R42 R46 R47	22	Load				
R100R_0603	RESISTOR 100 OHM	CRCW0603100RFKEA	541-100HCT-ND	VISHAY DALE			2	R3 R57	23	Load				
R47K_0603	RESISTOR 47K	CRCW060347K0FKEA	541-47.0KHCT-ND	VISHAY DALE			2	R30 R52	24	Load				
R2002_0603	RESISTOR 20K 1/10W 1%	CRCW060320K0FKEA	541-20.0KHCT-ND	VISHAY DALE			5	R31 R4 R49 R56 R7	25	Load				
RO_0603	RESISTOR 0	CRCW0603000020EA	541-0.0CT-ND	VISHAY DALE			8	R37 R38 R48 R5 R55 R67 R68 R8	26	Load				
R100R_0402	RESISTOR 100 OHM 63mW 1%	CRCW0402100RFKEA	541-100LCT-ND	VISHAY DALE			1	R53	27	Load				
R1600_0603	RESISTOR 160 1/10W 1%	CRCW0603160RFKEA	541-160HCT-ND	VISHAY DALE			1	R58	28	Load				
CSS1414	1.5 A 260 kHz and 520 kHz Low Voltage Buck Regulators	CSS1414GD8G	CSS1414GD8G05-ND	ON Semi			2	U1 U14	29	Load				
NCP3335ADM330R2G	Low Dropout Regulator Ultra High Accuracy Low Iq 500 mA	NCP3335ADM330R2G	NCP3335ADM330R2GOSTR-ND	ON Semi			2	U10 U5	30	Load				
LM86CIMX	IC TEMP SENSOR SMBUS 8-SOIC	LM86CIMX/NOPB	LM86CIMX/NOPBCT-ND	Texas Instr			1	U11	31	Load				
NOIP15N010KA_REV1	Andon Electronics Python xk 355 pin uPGA Socket	10-31-13A-355-400T4-R27-L14	Consigned Part (55 pcs)	Andon Electronics			1	U12	32	Load				
NCV59151DS18	IC REG LDO 1.8V 1.5A D2PAK	NCV59151DS18R4G	Consigned Part (100 pcs)	ON-Semi			1	U13	33	Load				
LTC2487	16-Bit 2-/4-Channel 75 ADC	LTC2487IDE#PBF	LTC2487IDE#PBF-ND	Linear Technology			1	U15	34	Load				
CAT660EVA	IC REG SWITCHED CAP DL INV 8SOIC	CAT660EVA-GT3	CAT660EVA-GT3OCT-ND	ON-Semi			1	U2	35	Load				
NLX2G14AMUTCG	IC INVERTER DUAL SCHMTRIG UDFN6 1.45x1.0 0.5P CASE 517AQ	NLX2G14AMUTCG	Mouser	ON-Semi			1	U3	36	Load				
VREF_2.5V	2.5V CMOS VOLTAGE REFERENCE 50ppm/C Max 50uA	REF3025AIDBZR	296-2622-1-ND	Texas Instr			1	U4	37	Load				
LM8261M5_NOPB	IC OPAMP GP 24MHZ RRO SOT23-5	LM8261M5/NOPB	LM8261M5/NOPBCT-ND	Texas Instr			3	U6 U7 U9	38	Load				
NCP3335ADMADJR2G	Low Dropout Regulator Adjustable Ultra High Accuracy Low Iq 500 mA	NCP3335ADMADJR2G	Consigned Part (100 pcs)	ON Semi			1	U8	39	Load				
CNOLOAD_0603	CAP NOLOAD	_NOLOAD	NOLOAD	NOLOAD			1	C4	40	NOLOAD				
TV62x42	TEST VIA 62x42 NOLOAD	_NOLOAD	NOLOAD	NOLOAD			21	EAV1 EAV2 EAV3 EAV4 EAV5 EAV6 EAV7 TV1 TV10 TV11 TV12 TV13 TV14 TV2 TV3 TV4 TV5 TV6 TV7 TV8 TV9	41	NOLOAD				
SEL2_0402	4 position jumper for a S152 selection NOLOAD	_NOLOAD	NOLOAD	NOLOAD			1	JMP1	42	NOLOAD				
ON_LOGO	Silkscreen Logo NOLOAD	_NOLOAD	NOLOAD	NOLOAD			1	LOGO1	43	NOLOAD				
HOLE 150/95	MOUNTING NOLOAD	_NOLOAD	NOLOAD	NOLOAD			13	N1 N10 N11 N12 N13 N2 N3 N4 N5 N6 N7 N8 N9	44	NOLOAD				
FIDUCIAL BD 40	FIDUCIAL BOARD LOCAL 40 NOLOAD	_NOLOAD	NOLOAD	NOLOAD			6	NFM1 NFM2 NFM3 NFM4 NFM5 NFM6	45	NOLOAD				
PCB_43020000	Bare Board PCB NOLOAD	_NOLOAD_43020000	NOLOAD	NOLOAD PCB Fabricator			1	PCB1	46	NOLOAD				
RNOLOAD_0603	NO LOAD RESISTOR NOLOAD	_NOLOAD	NOLOAD	NOLOAD			9	R1 R32 R45 R50 R54 R6 R63 R64 R9	47	NOLOAD				
RNOLOAD_0805	NO LOAD RESISTOR NOLOAD	_NOLOAD	NOLOAD	NOLOAD			2	R35 R44	48	NOLOAD				
RDNP_0402	RESISTOR do not populate ohm 1/16W 5% NOLOAD	_NOLOAD	NOLOAD	NOLOAD			1	R60	49	NOLOAD				
TV35/25x13	TEST VIA 35/25x13 NOLOAD	_NOLOAD	NOLOAD	NOLOAD			6	TP1 TP2 TP3 TP4 TP5 TP6	50	NOLOAD				



Drill Table					
Size	Length	Plate Through	Letter	Count	
13	Ø	YES	@	653	
15	Ø	YES	A	355	
42	Ø	YES	B	25	
45	Ø	YES	D	4	
47	Ø	NO	E	2	
50	Ø	NO	F	2	
95	Ø	YES	C	13	

Python xK FMC Board
 PCB # 43020000 REV 1
 10/20/2014