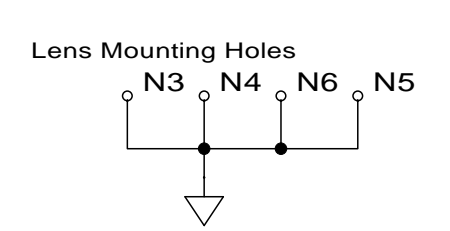
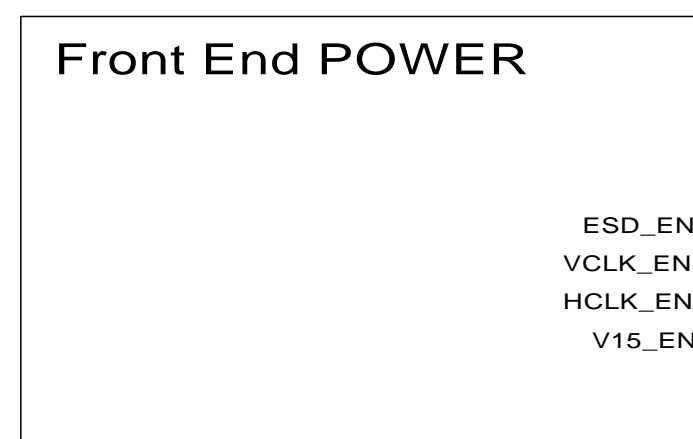
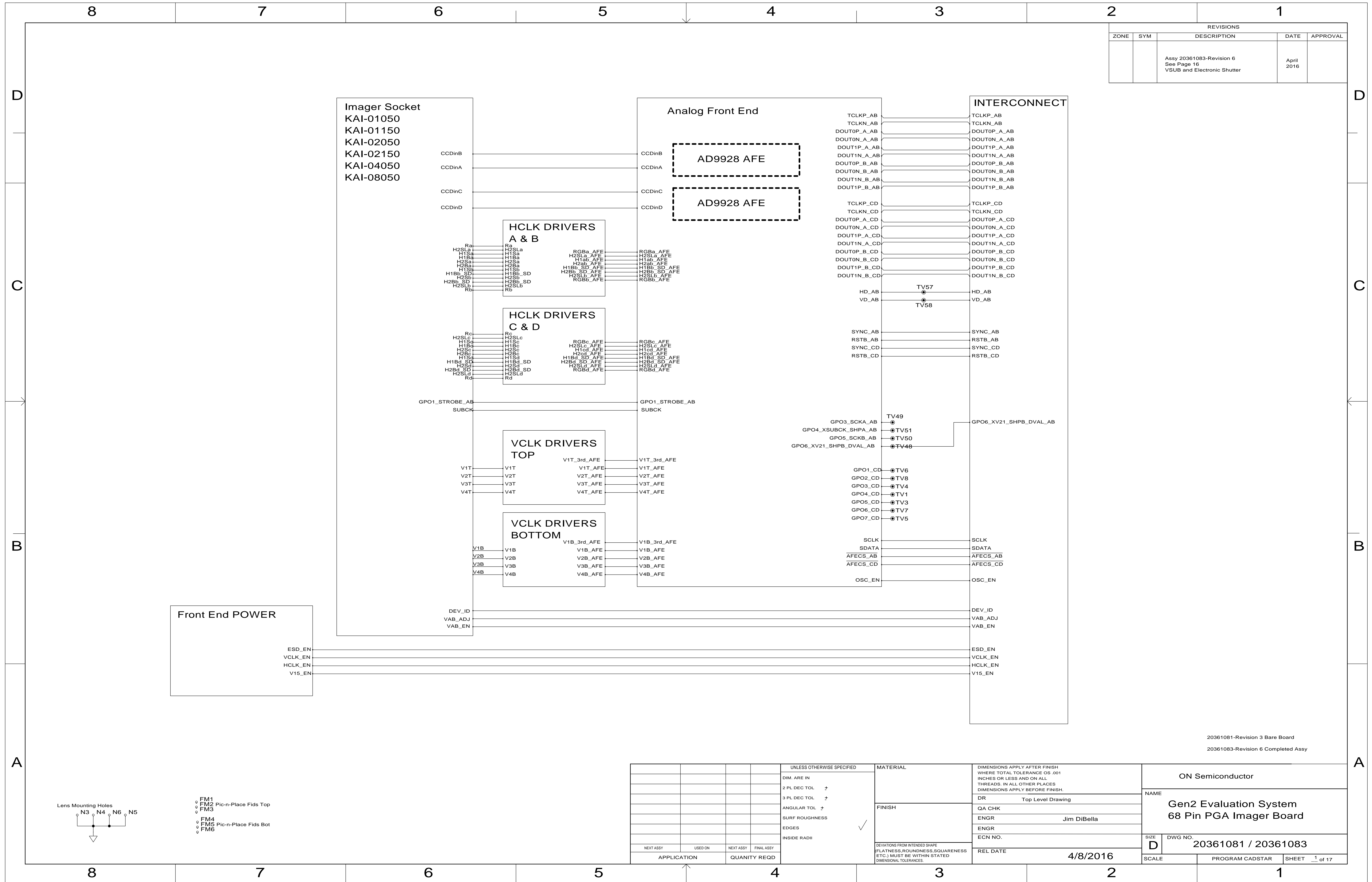


REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL
		Assy 20361083-Revision 6 See Page 16 VSub and Electronic Shutter	April 2016	

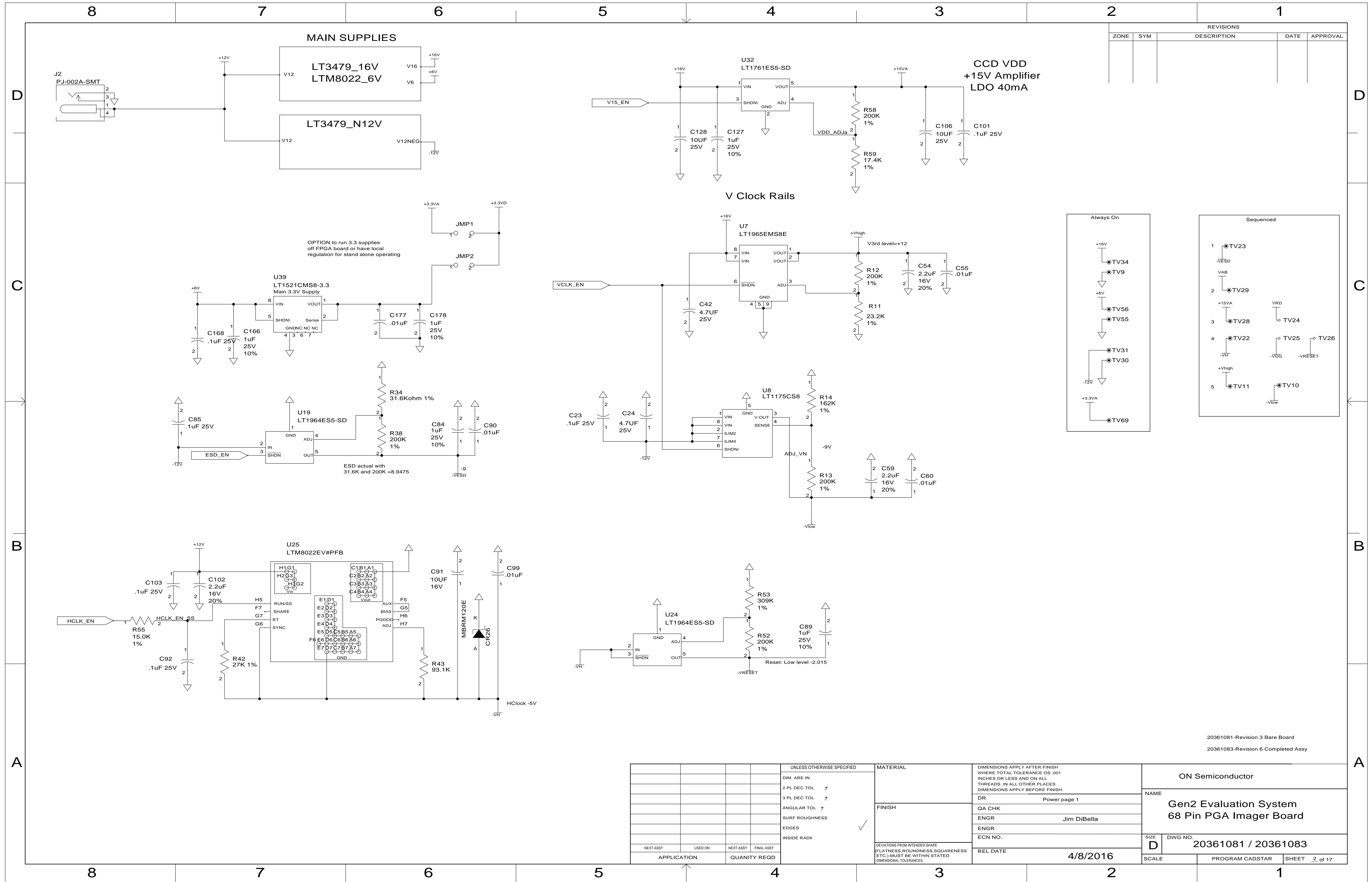


- ◊ FM1 Pic-n-Place Fids Top
- ◊ FM2 Pic-n-Place Fids Top
- ◊ FM3 Pic-n-Place Fids Top
- ◊ FM4 Pic-n-Place Fids Bot
- ◊ FM5 Pic-n-Place Fids Bot
- ◊ FM6 Pic-n-Place Fids Bot

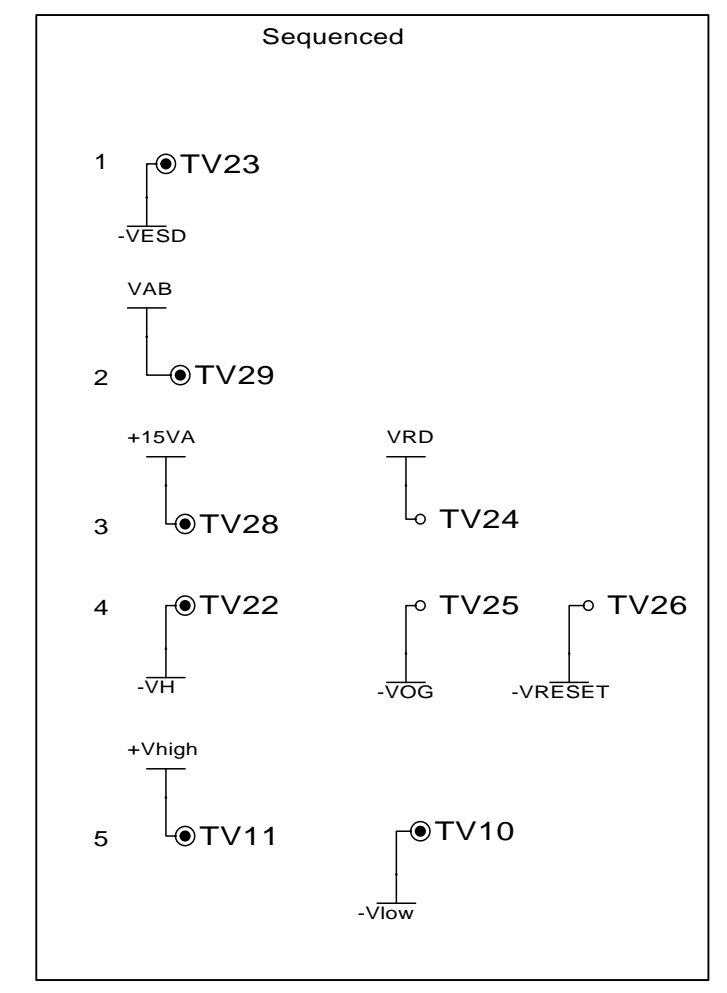
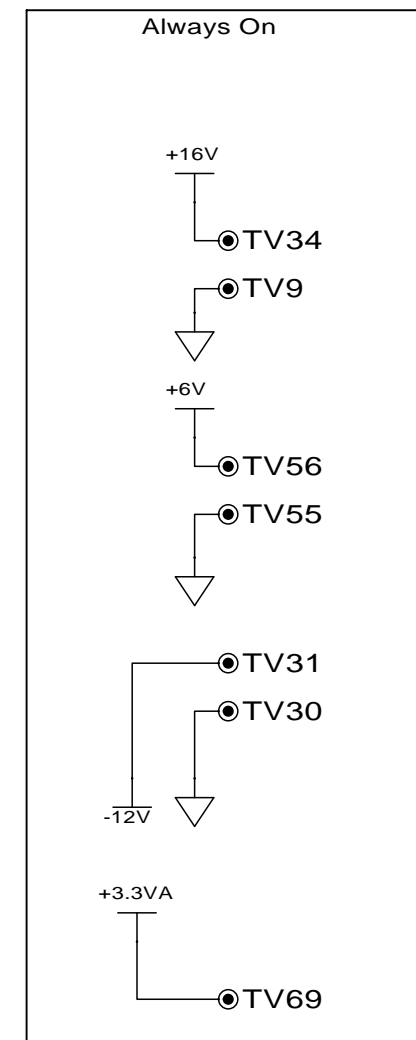
20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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.	
DIM. ARE IN			DR Top Level Drawing	
2 PL DEC TOL			QA CHK	
3 PL DEC TOL			ENGR Jim DiBella	
ANGULAR TOL			ENGR	
SURF ROUGHNESS			ECN NO.	
EDGES			REL DATE 4/8/2016	
INSIDE RADII			SCALE	
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY	PROGRAM CADSTAR
APPLICATION	QUANTITY REQD	DEVIATIONS FROM INTENDED SHAPE (FLATNESS, ROUNDNESS, SQUARENESS, ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.		SHEET 1 of 17

ON Semiconductor	
NAME Gen2 Evaluation System 68 Pin PGA Imager Board	
SIZE D	DWG NO. 20361081 / 20361083
SCALE	PROGRAM CADSTAR



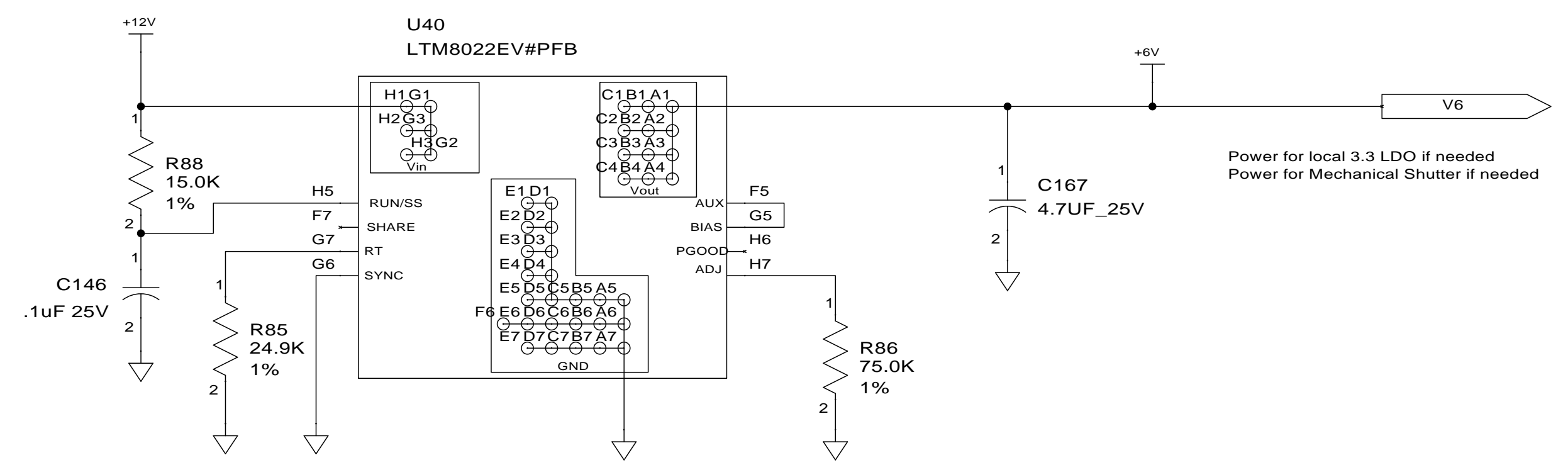
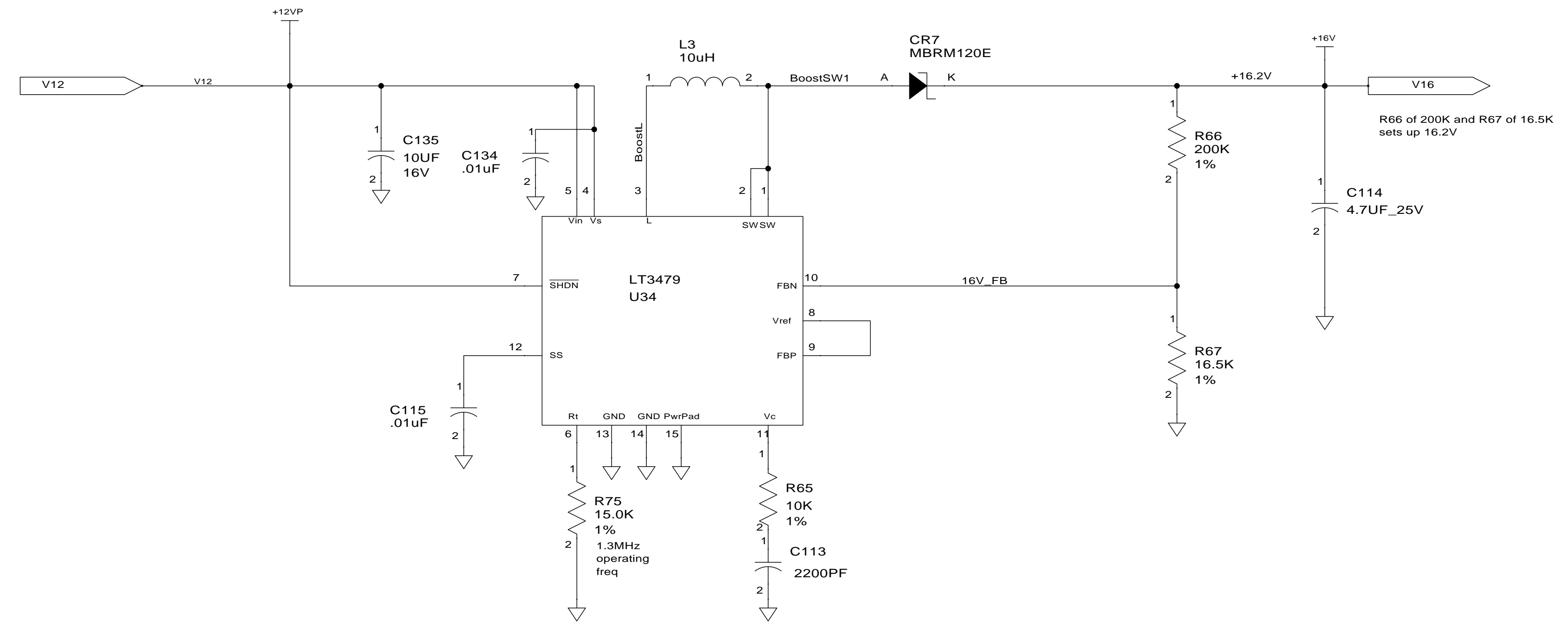
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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 Power page 1	NAME
2 PL DEC TOL ±				QA CHK
3 PL DEC TOL ±		ENGR	ENGR	SIZE
ANGULAR TOL ±		ENGR	ENGR	D
SURF ROUGHNESS		ECN NO.	REL DATE	DWG NO.
EDGES			4/8/2016	20361081 / 20361083
INSIDE RADII				SCALE
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY	PROGRAM CADSTAR
				SHEET 2 of 17
APPLICATION	QUANTITY REQD			

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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 Power page 2 LT3471		NAME	
2 PL DEC TOL ±				QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±				ENGR Jim DiBella		68 Pin PGA Imager Board	
ANGULAR TOL ±				ENGR		SIZE D DWG NO. 20361081 / 20361083	
SURF ROUGHNESS				ECN NO.		SCALE	
EDGES				REL DATE 4/8/2016		PROGRAM CADSTAR SHEET 3 of 17	
INSIDE RADII							
NEXT ASSY		USED ON		NEXT ASSY		FINAL ASSY	
APPLICATION		QUANTITY REQD					

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

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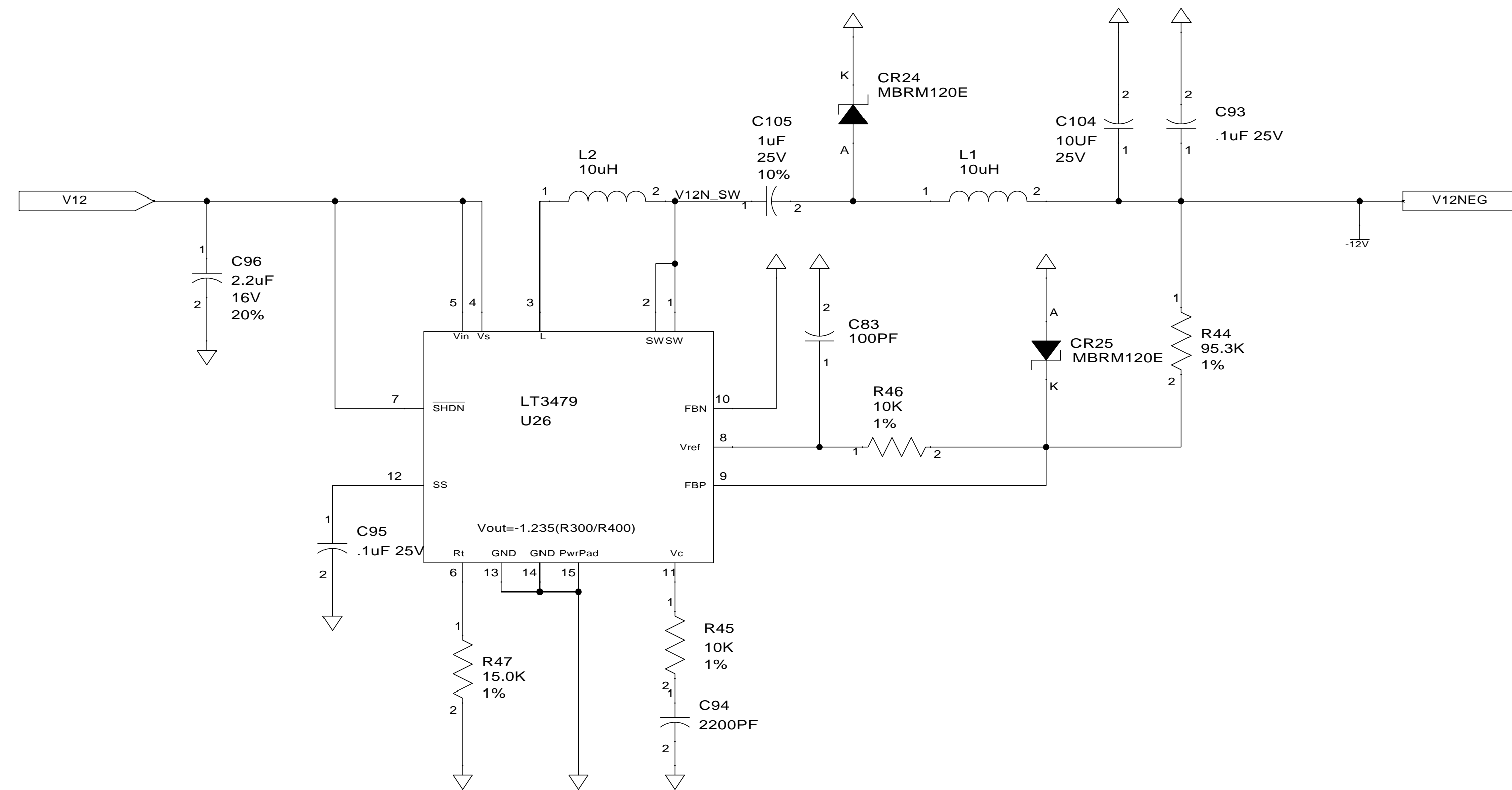
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REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

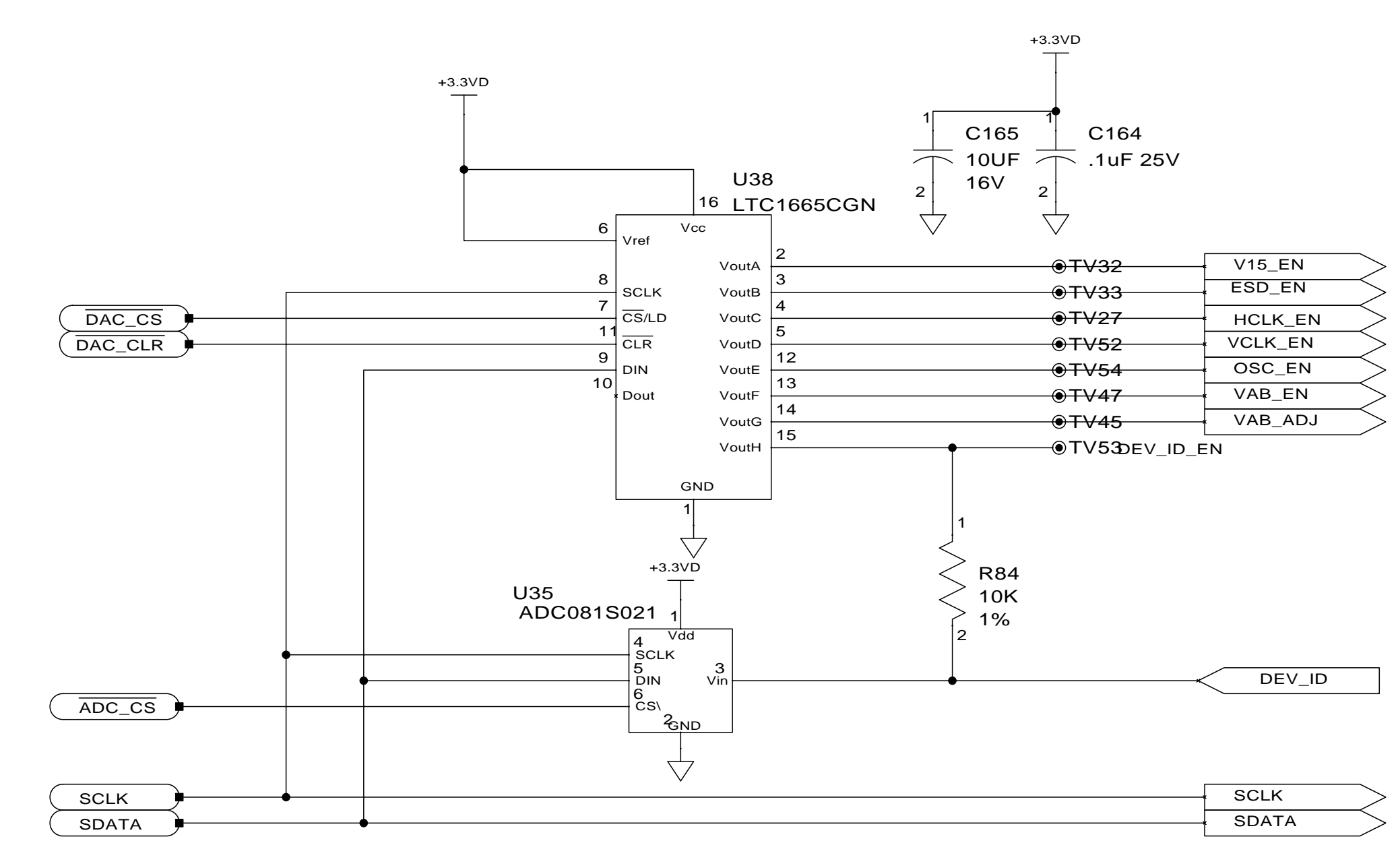
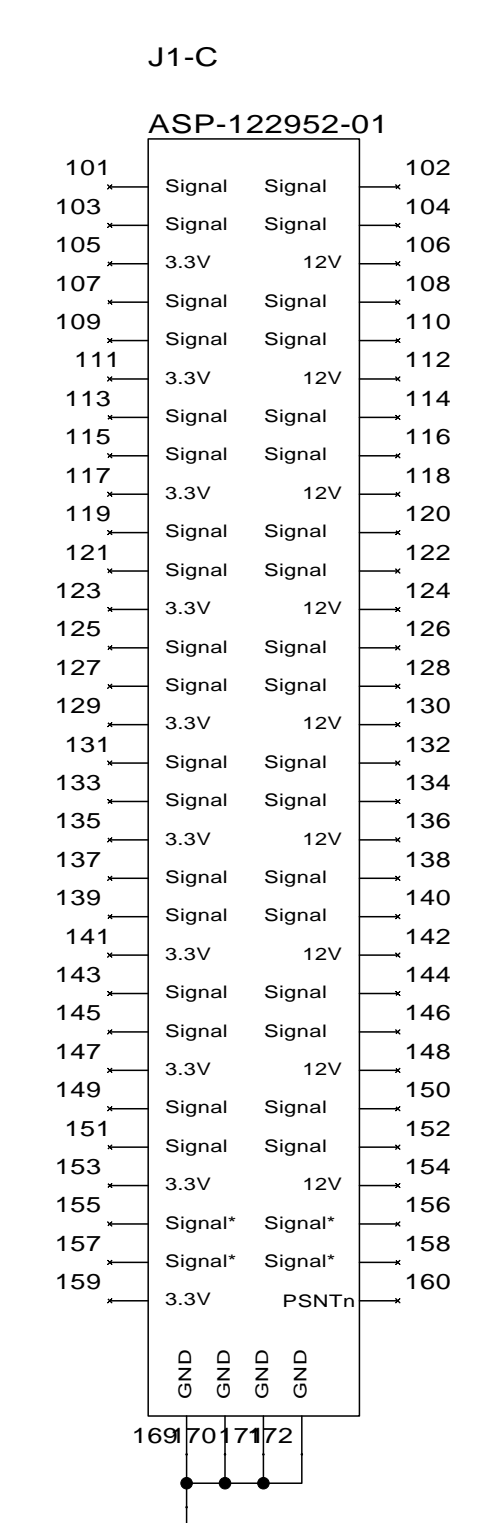
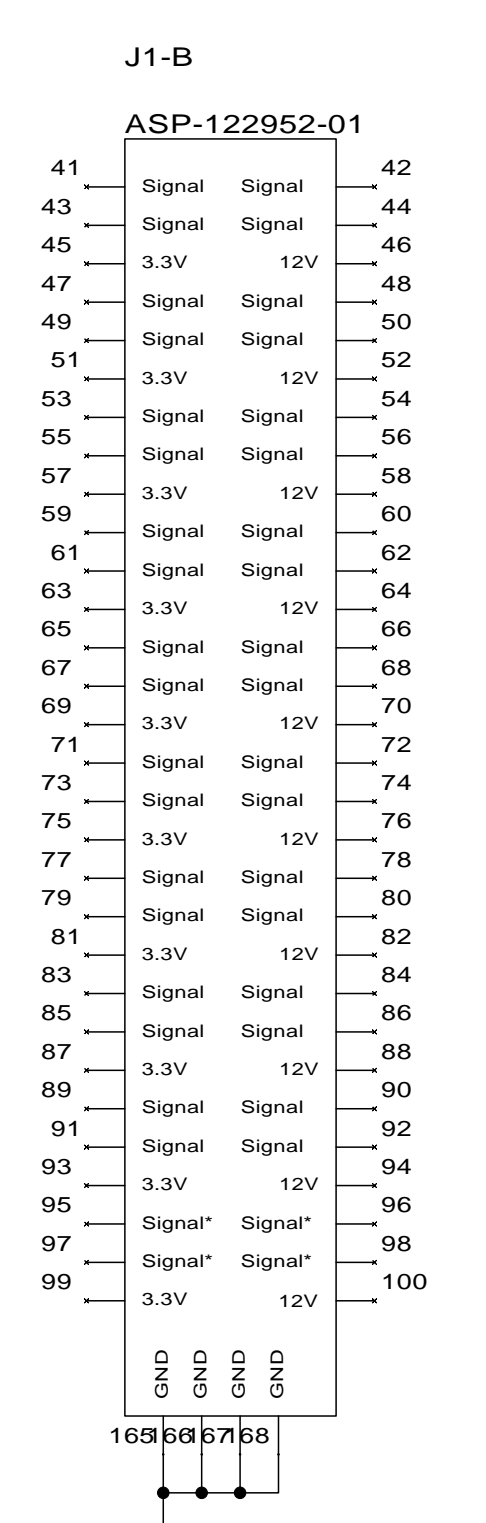
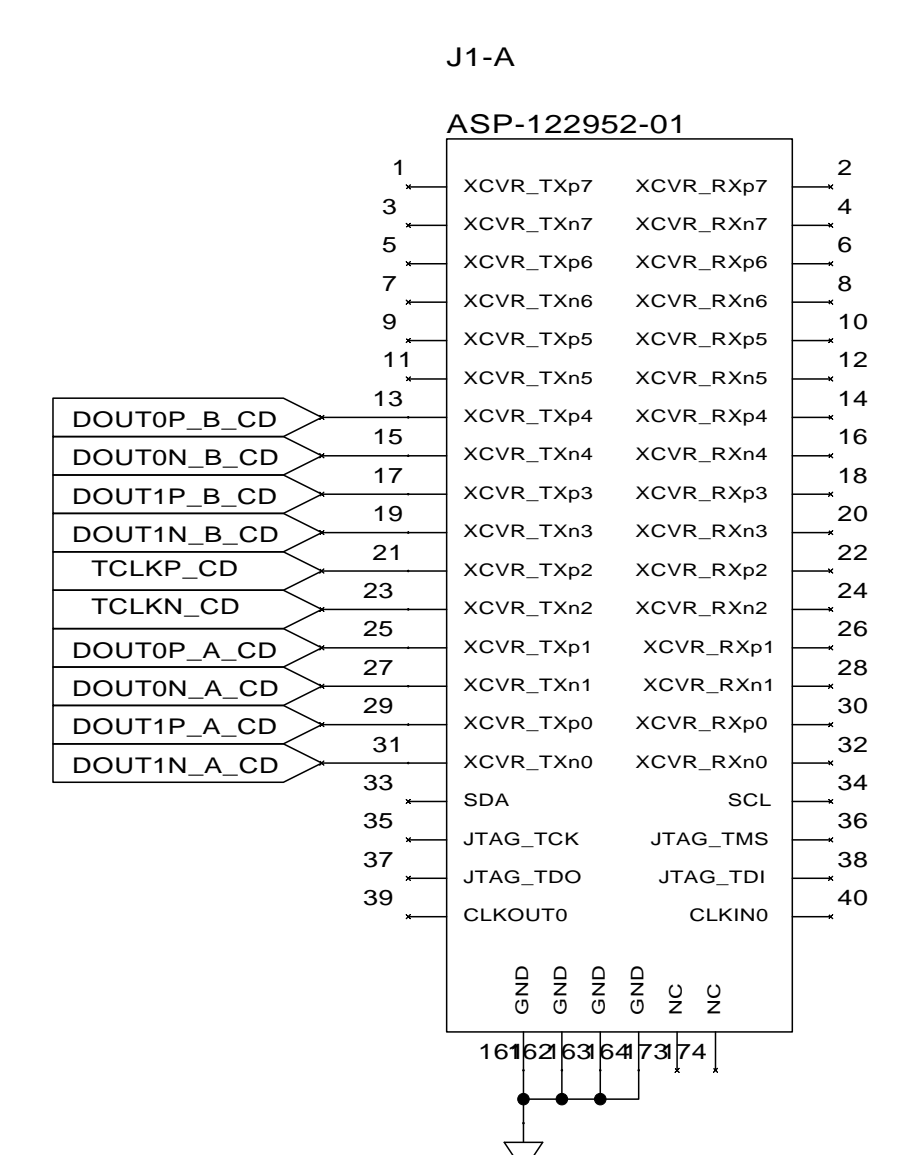
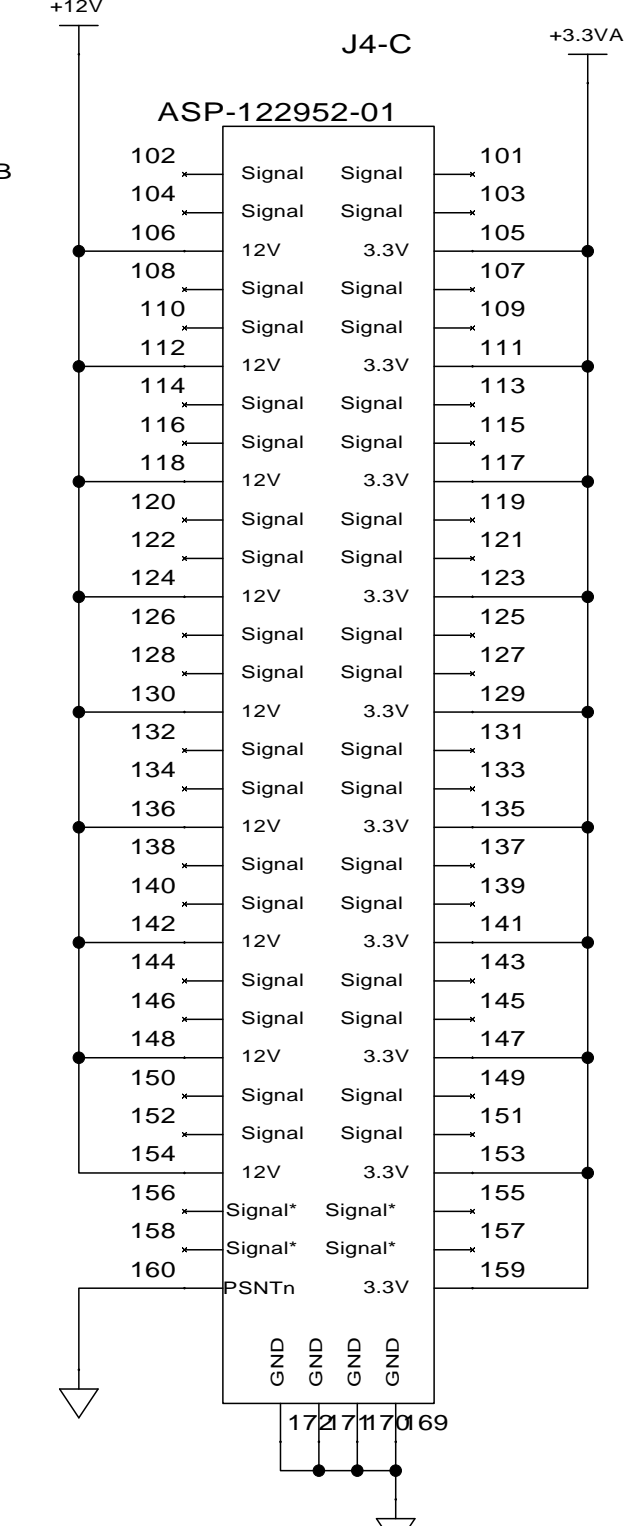
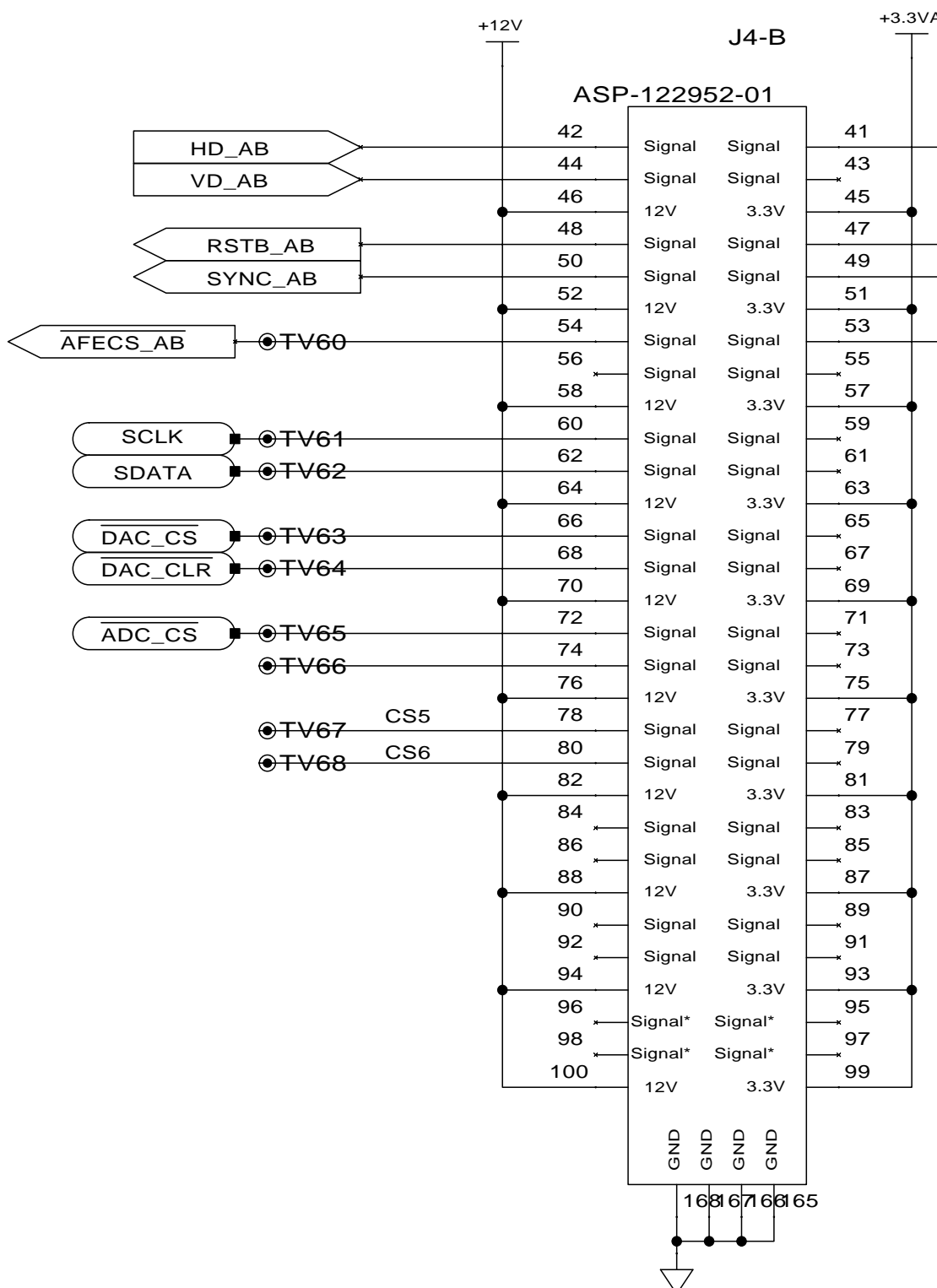
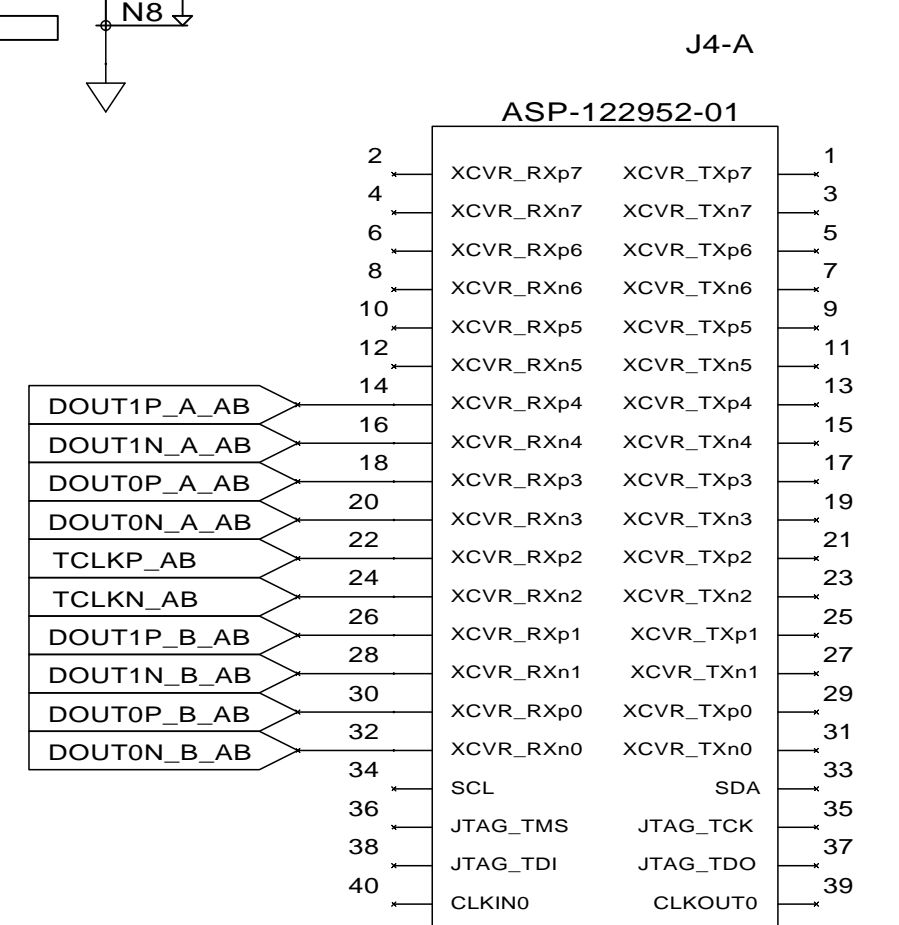
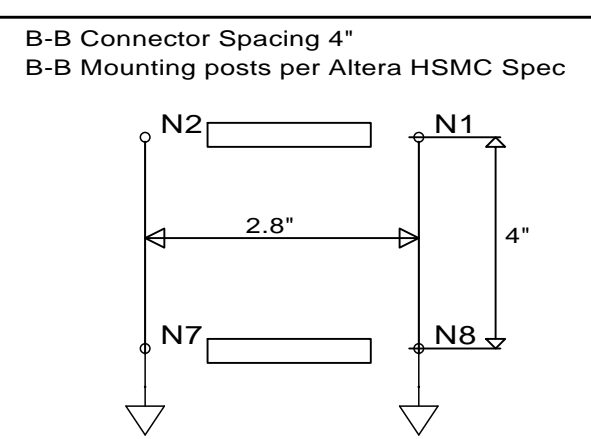
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DIM. ARE IN				FINISH		DR Power page 3 LT3479		NAME	
2 PL DEC TOL ±						QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±						ENGR		68 Pin PGA Imager Board	
ANGULAR TOL ±						ENGR			
SURF ROUGHNESS						ECN NO.			
EDGES						REL DATE		SIZE D DWG NO. 20361081 / 20361083	
INSIDE RADII						4/8/2016		SCALE	
NEXT ASSY		USED ON		NEXT ASSY		PROGRAM CADSTAR		SHEET 4 of 17	
APPLICATION		QUANTITY REQD							

8 7 6 5 4 3 2 1

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8 7 6 5 4 3 2 1

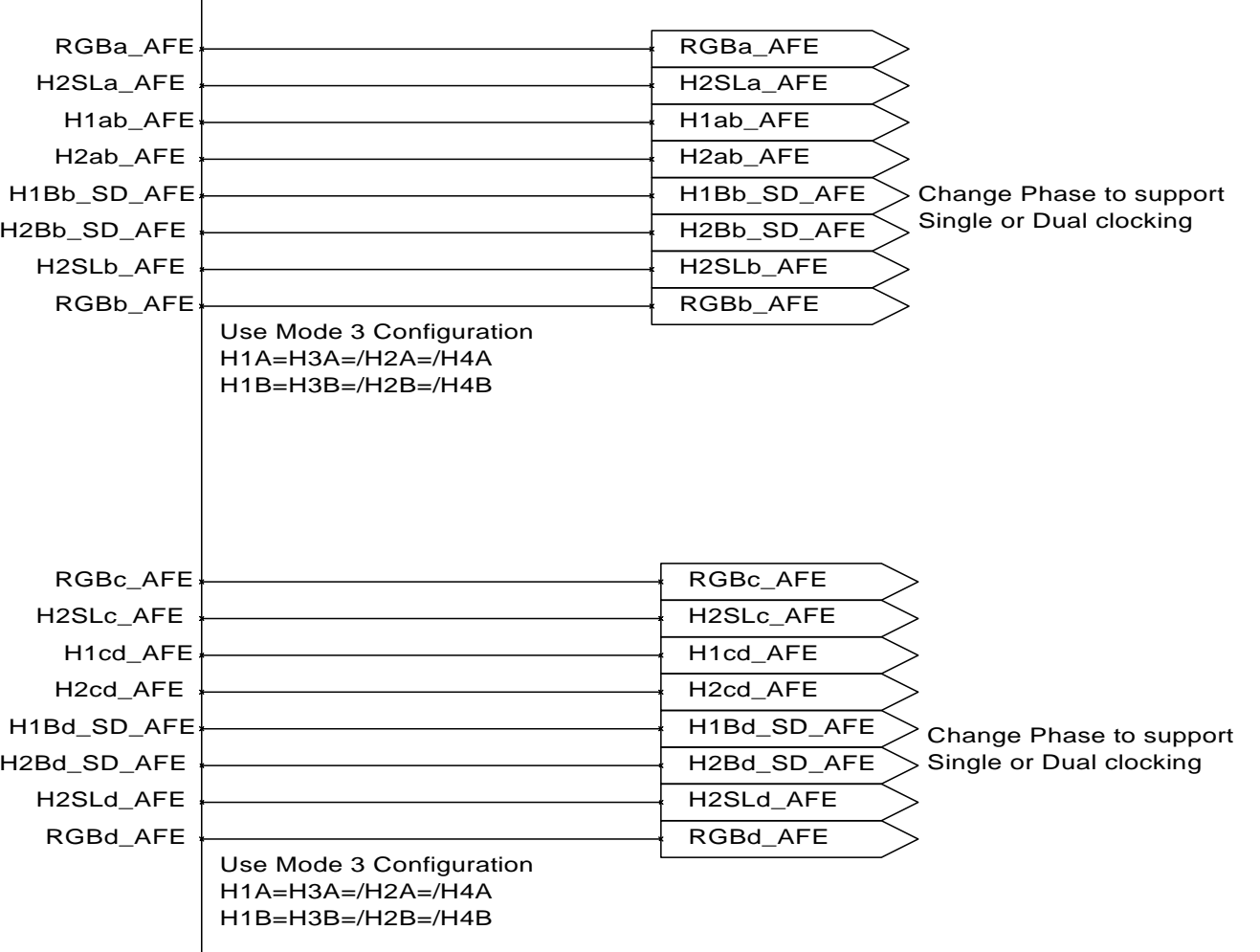
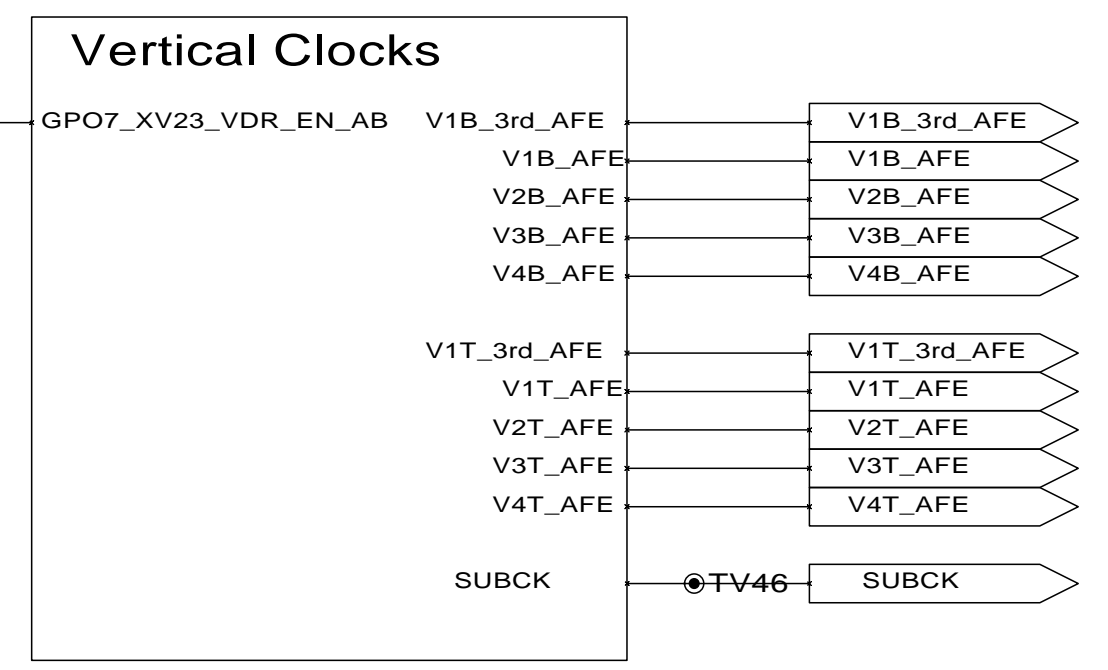
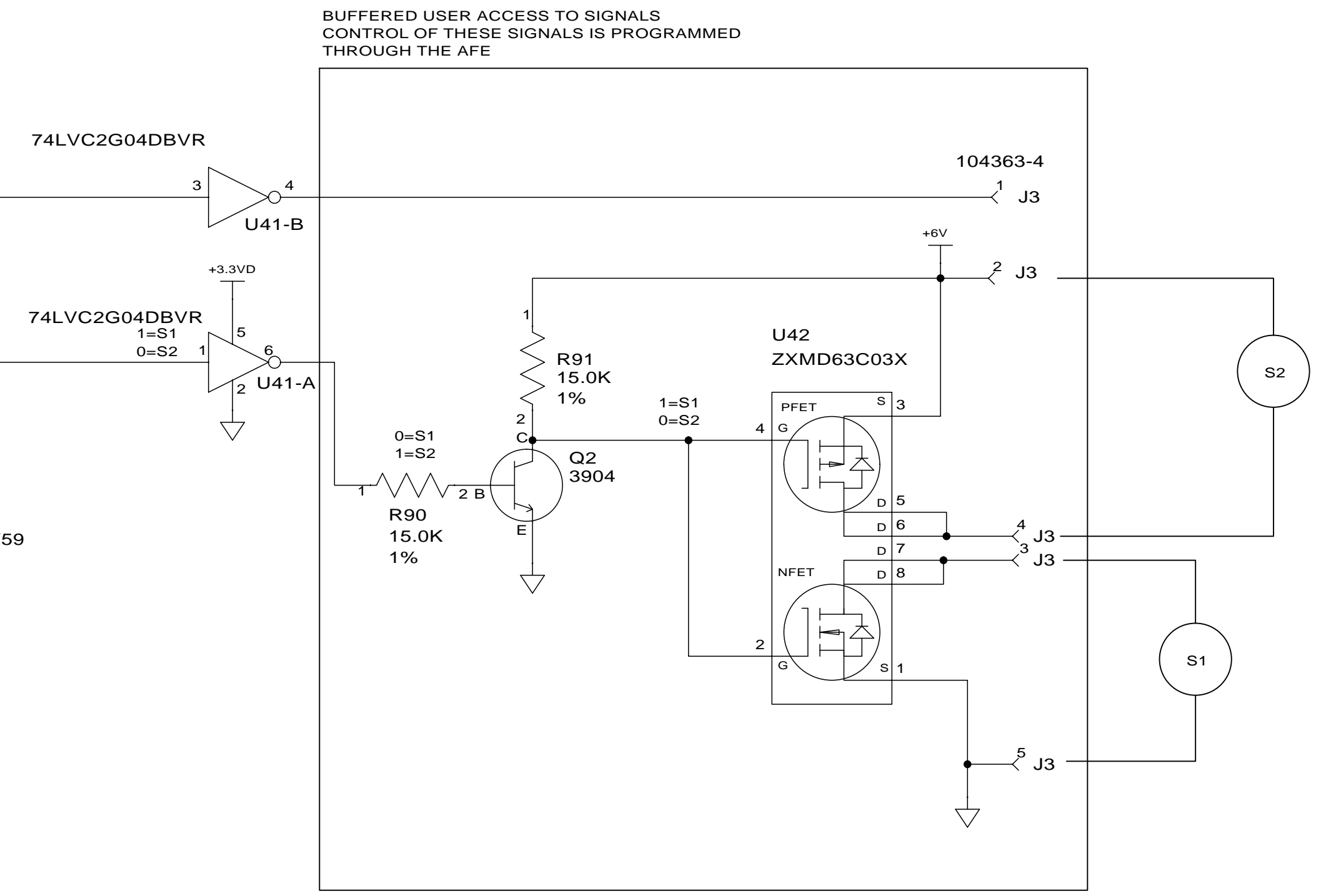
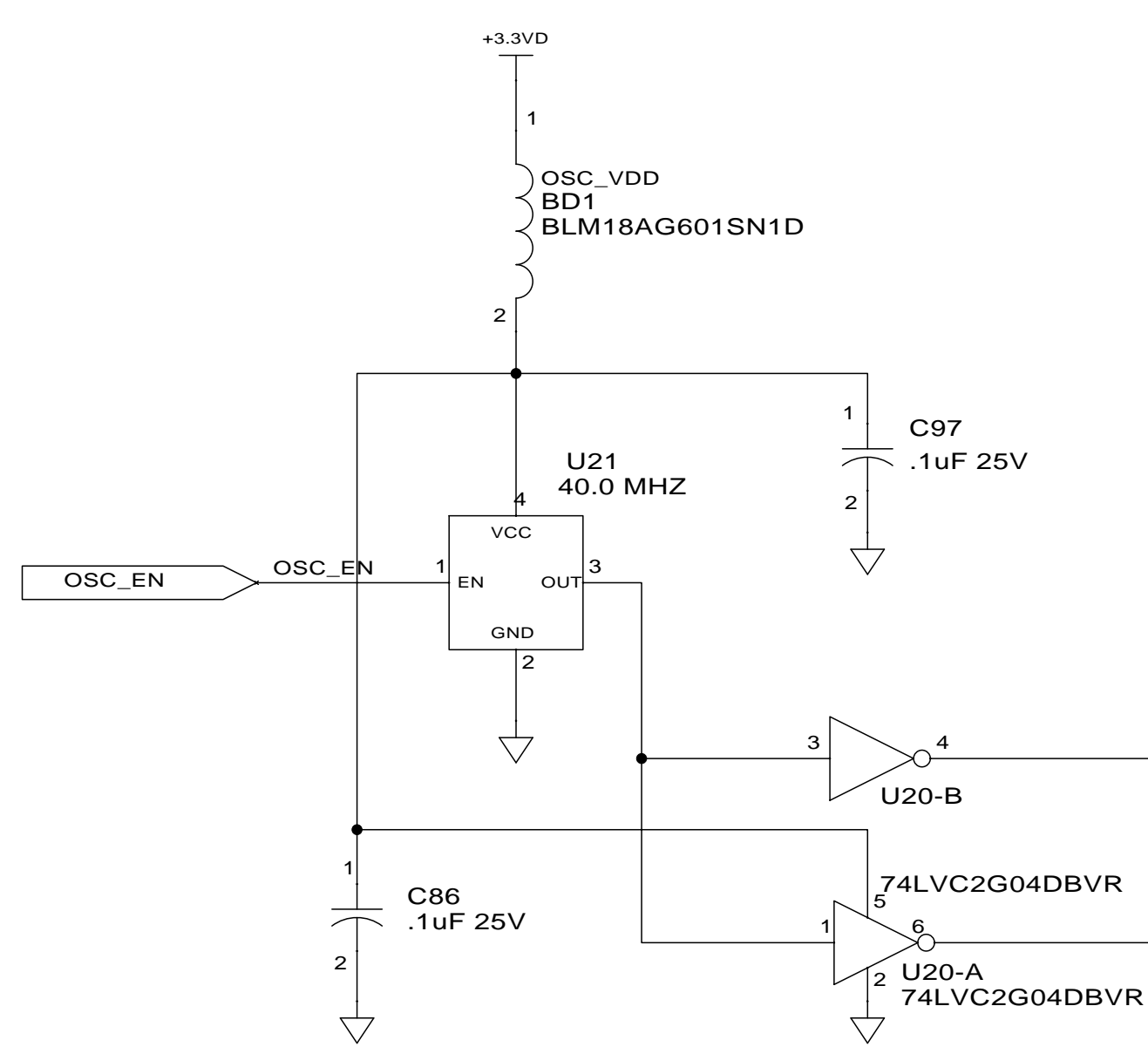
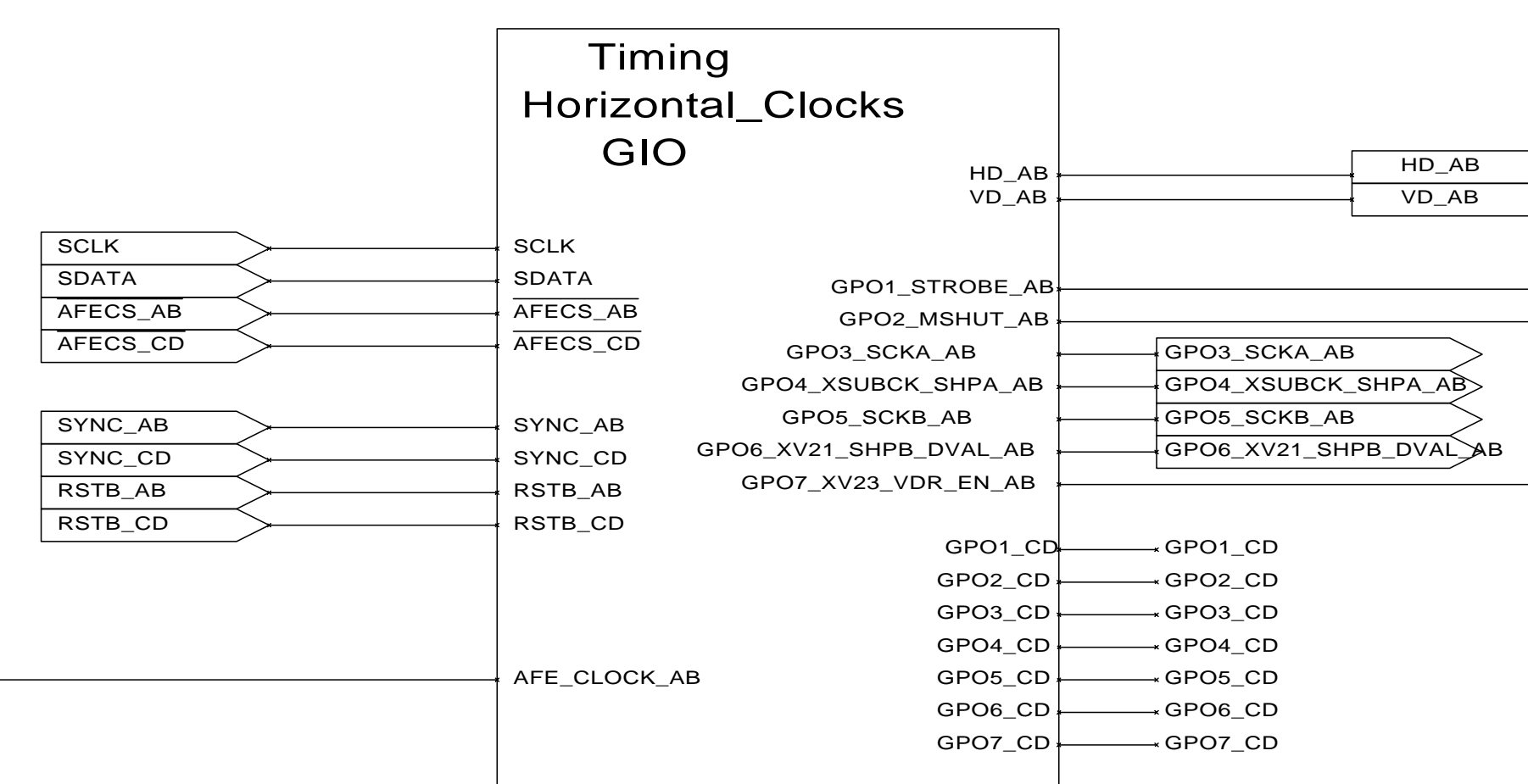
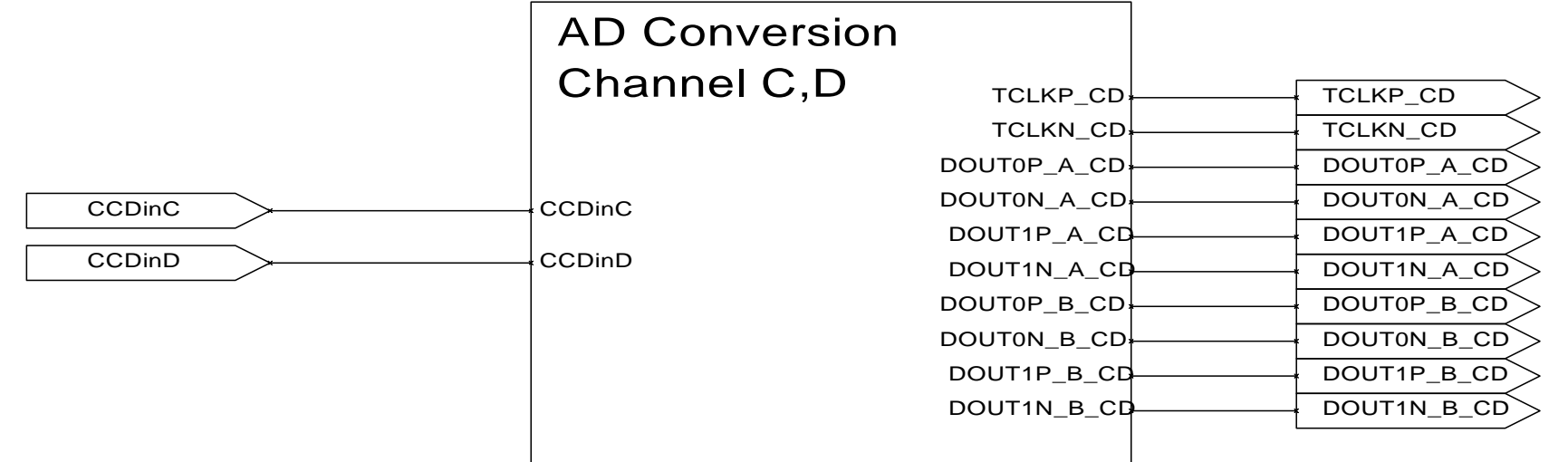
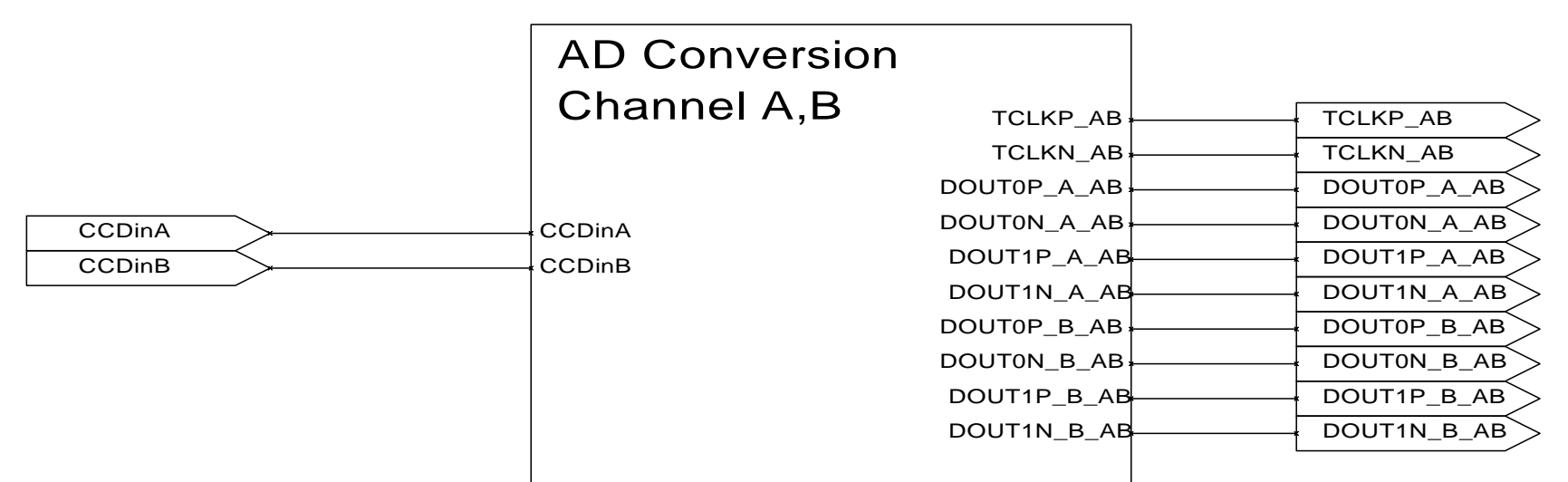
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

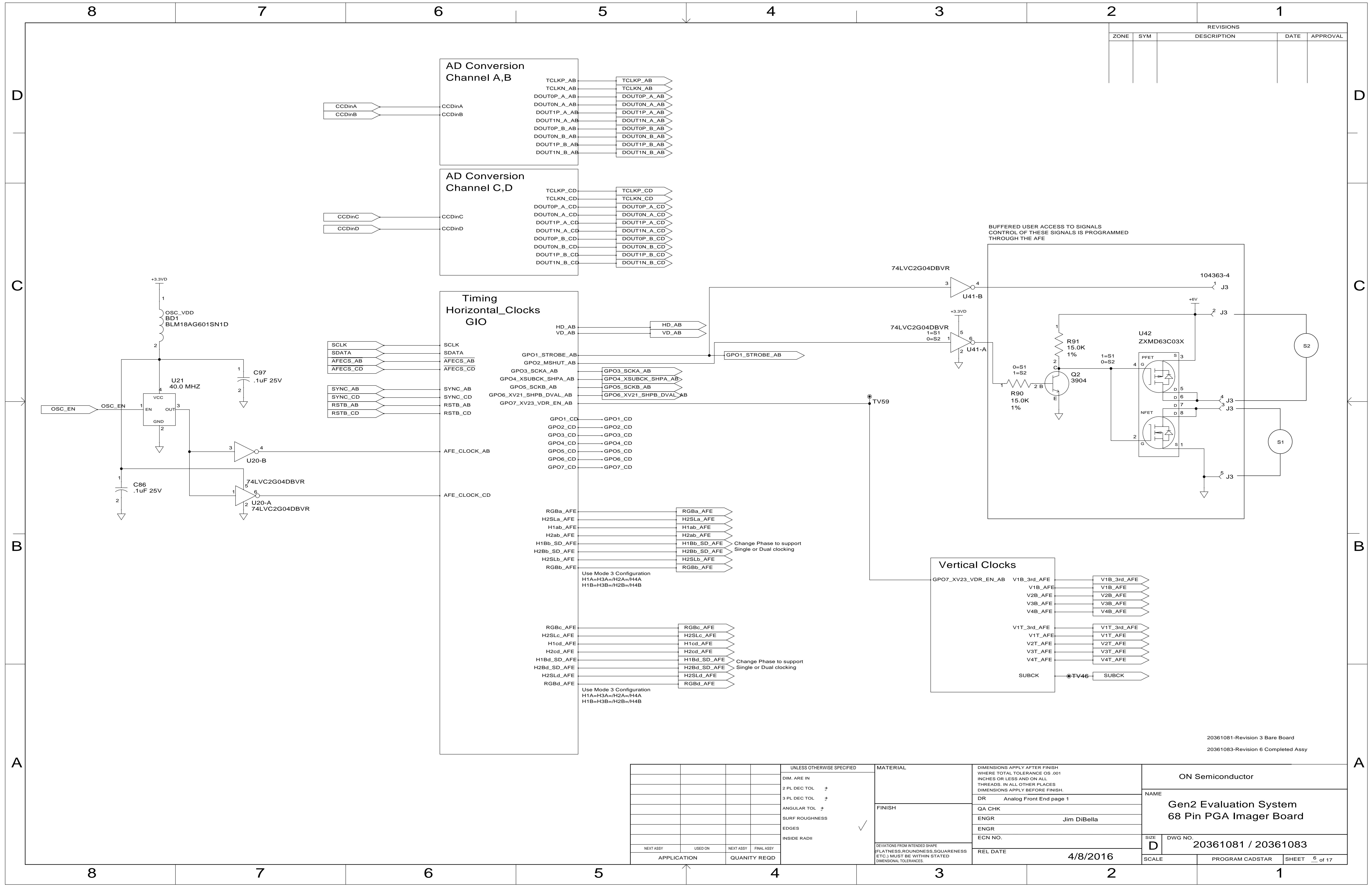
UNLESS OTHERWISE SPECIFIED		MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE 0.01 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor
DIM. ARE IN		FINISH	DR Board to Board Interconnect		
2 PL DEC TOL ±			✓	QA CHK	
3 PL DEC TOL ±		✓		ENGR Jim DiBella	
ANGULAR TOL ±			✓	ENGR	
SURF ROUGHNESS		✓		ECN NO.	
EDGES			✓	REL DATE	
INSIDE RADII		✓		4/8/2016	
NEXT ASSY	USED ON		NEXT ASSY	FNAL ASSY	SCALE
APPLICATION	QUANTITY REQD	REL DATE		PROGRAM CADSTAR SHEET 5 of 17	

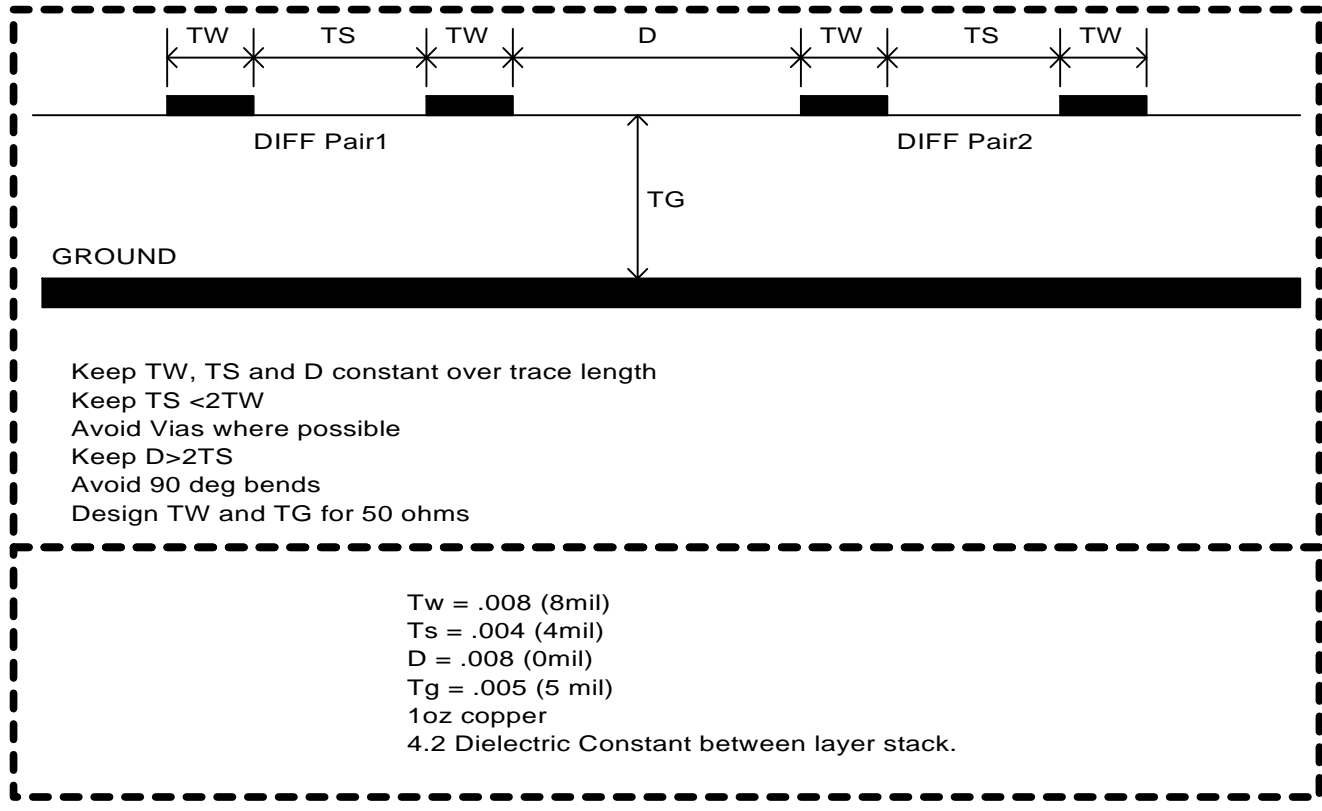
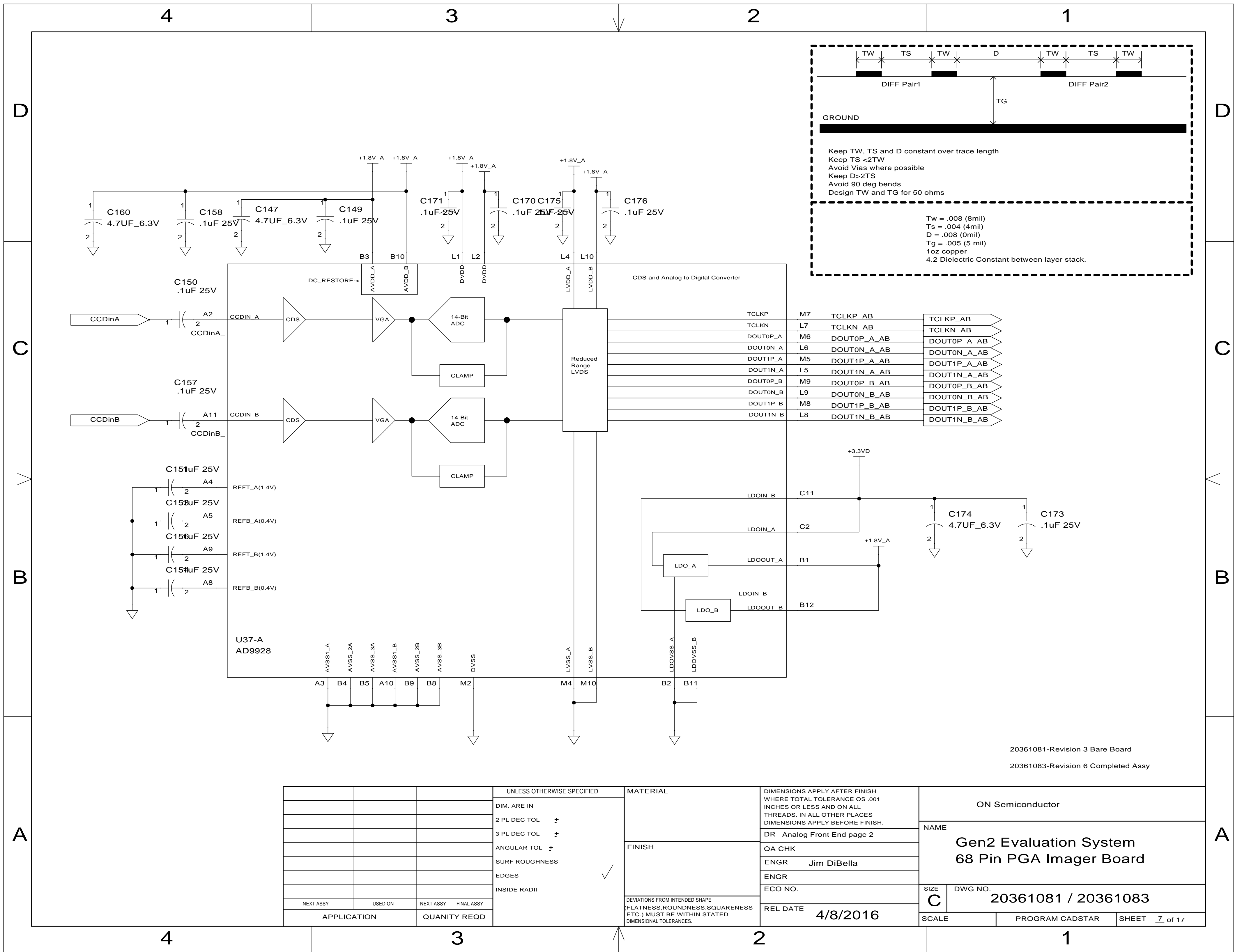
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

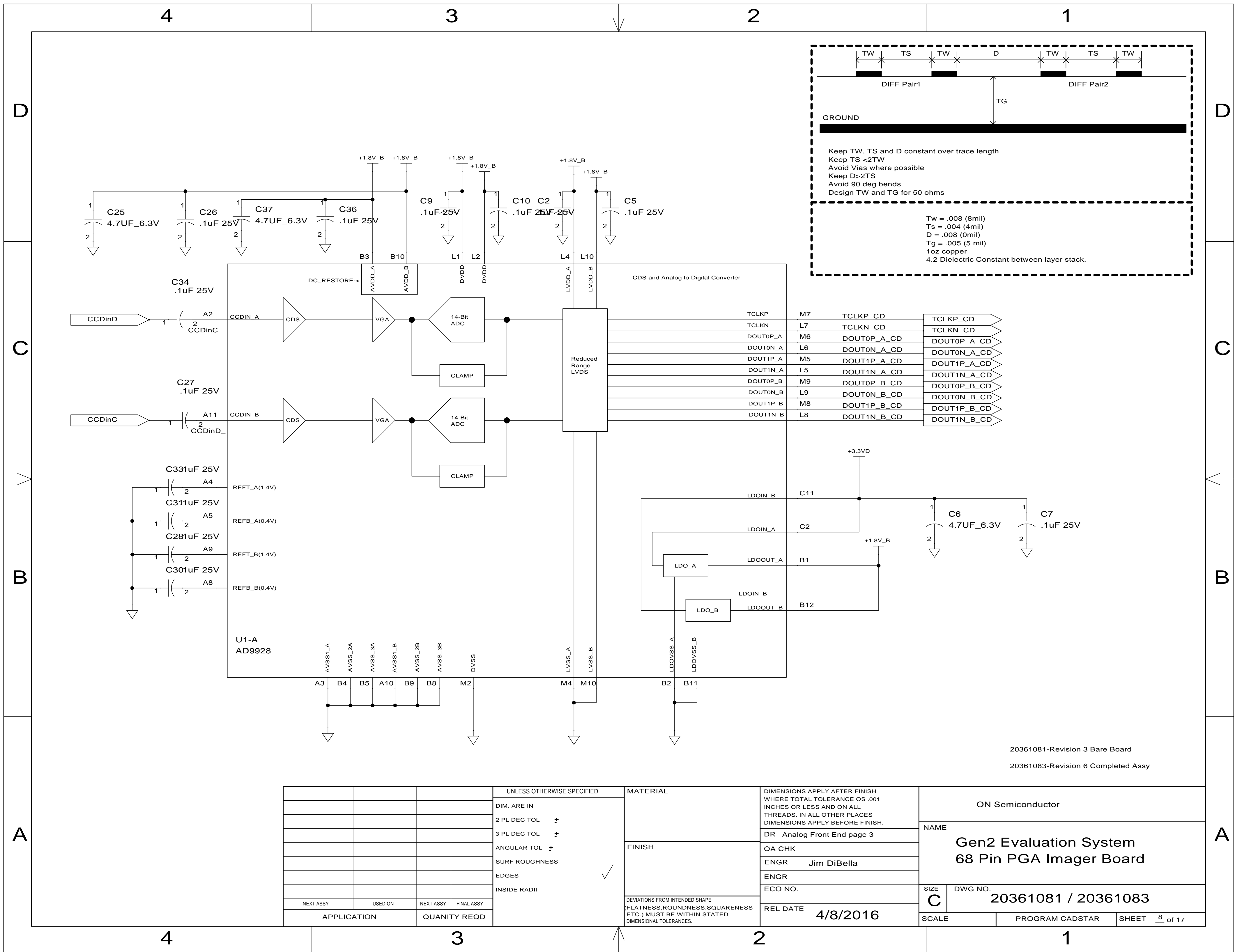
UNLESS OTHERWISE SPECIFIED		MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE IS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.	ON Semiconductor
DIM. ARE IN			DR Analog Front End page 1	NAME
2 PL DEC TOL	+		QA CHK	Gen2 Evaluation System
3 PL DEC TOL	+		ENGR	68 Pin PGA Imager Board
ANGULAR TOL	+		ENGR	
SURF ROUGHNESS			ENGR	
EDGES			ECN NO.	SIZE D DWG NO. 20361081 / 20361083
INSIDE RADII			REL DATE	SCALE
			4/8/2016	PROGRAM CADSTAR SHEET 6 of 17
NEXT ASSY	USED ON	NEXT ASSY	FNAL ASSY	
APPLICATION		QUANTITY REQD		





20361081-Revision 3 Bare Board
 20361083-Revision 6 Completed Assy

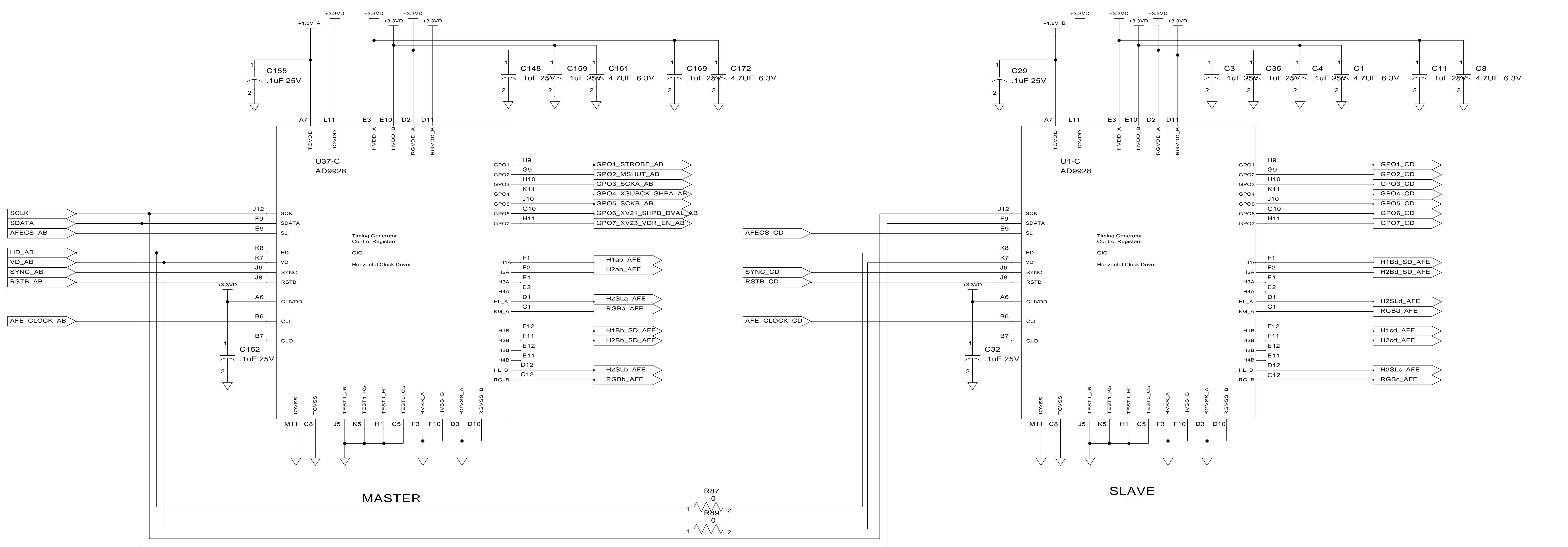
				UNLESS OTHERWISE SPECIFIED	MATERIAL	DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE 0S .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.	ON Semiconductor	
				DIM. ARE IN		DR Analog Front End page 2	NAME	
				2 PL DEC TOL ±		QA CHK	Gen2 Evaluation System	
				3 PL DEC TOL ±		ENGR Jim DiBella	68 Pin PGA Imager Board	
				ANGULAR TOL ±		ENGR	SIZE C DWG NO. 20361081 / 20361083	
				SURF ROUGHNESS		ECO NO.	SCALE PROGRAM CADSTAR SHEET 7 of 17	
				EDGES		REL DATE 4/8/2016		
				INSIDE RADII				
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY					
APPLICATION		QUANTITY REQD						



20361081-Revision 3 Bare Board
 20361083-Revision 6 Completed Assy

				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		DR Analog Front End page 3	NAME	
				2 PL DEC TOL ±		QA CHK	Gen2 Evaluation System	
				3 PL DEC TOL ±		ENGR Jim DiBella	68 Pin PGA Imager Board	
				ANGULAR TOL ±	FINISH	ENGR	SIZE C	DWG NO.
				SURF ROUGHNESS		ECO NO.	20361081 / 20361083	
				EDGES	DEVIATIONS FROM INTENDED SHAPE (FLATNESS, ROUNDNESS, SQUARENESS ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.	REL DATE	SCALE	PROGRAM CADSTAR
				INSIDE RADII		4/8/2016		SHEET 8 of 17
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY					
APPLICATION		QUANTITY REQD						

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

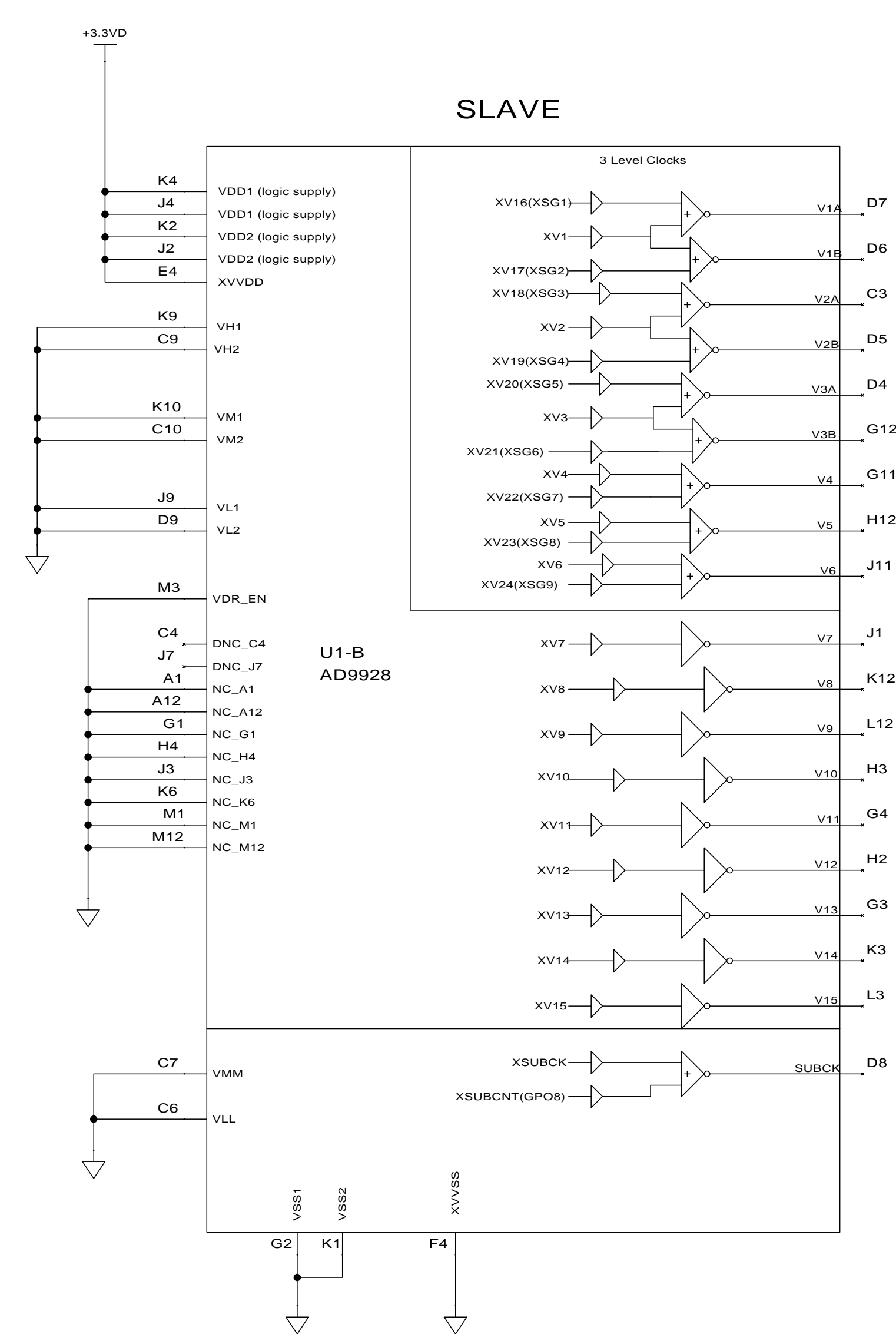
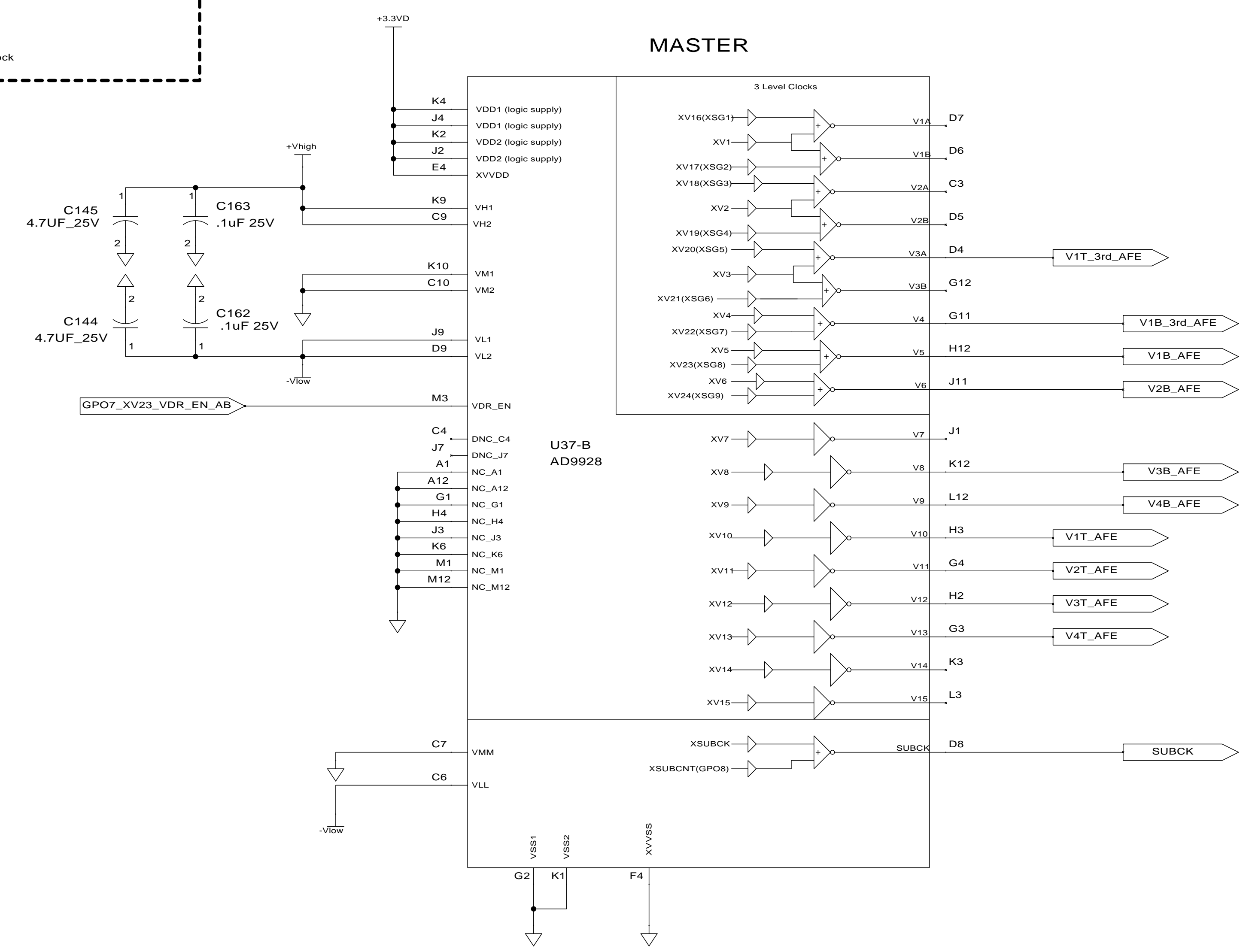


20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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 Analog Front End page 4		NAME	
2 PL DEC TOL ±		FLATNESS, ROUNDNESS, SQUARENESS ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.		QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±				ENGR Jim DiBella		68 Pin PGA Imager Board	
ANGULAR TOL ±				ENGR			
SURF ROUGHNESS				ECN NO.		SIZE D DWG NO. 20361081 / 20361083	
EDGES				REL DATE 4/8/2016		SCALE	
INSIDE RADII						PROGRAM CADSTAR SHEET 9 of 17	
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY				
APPLICATION	QUANTITY REQD						

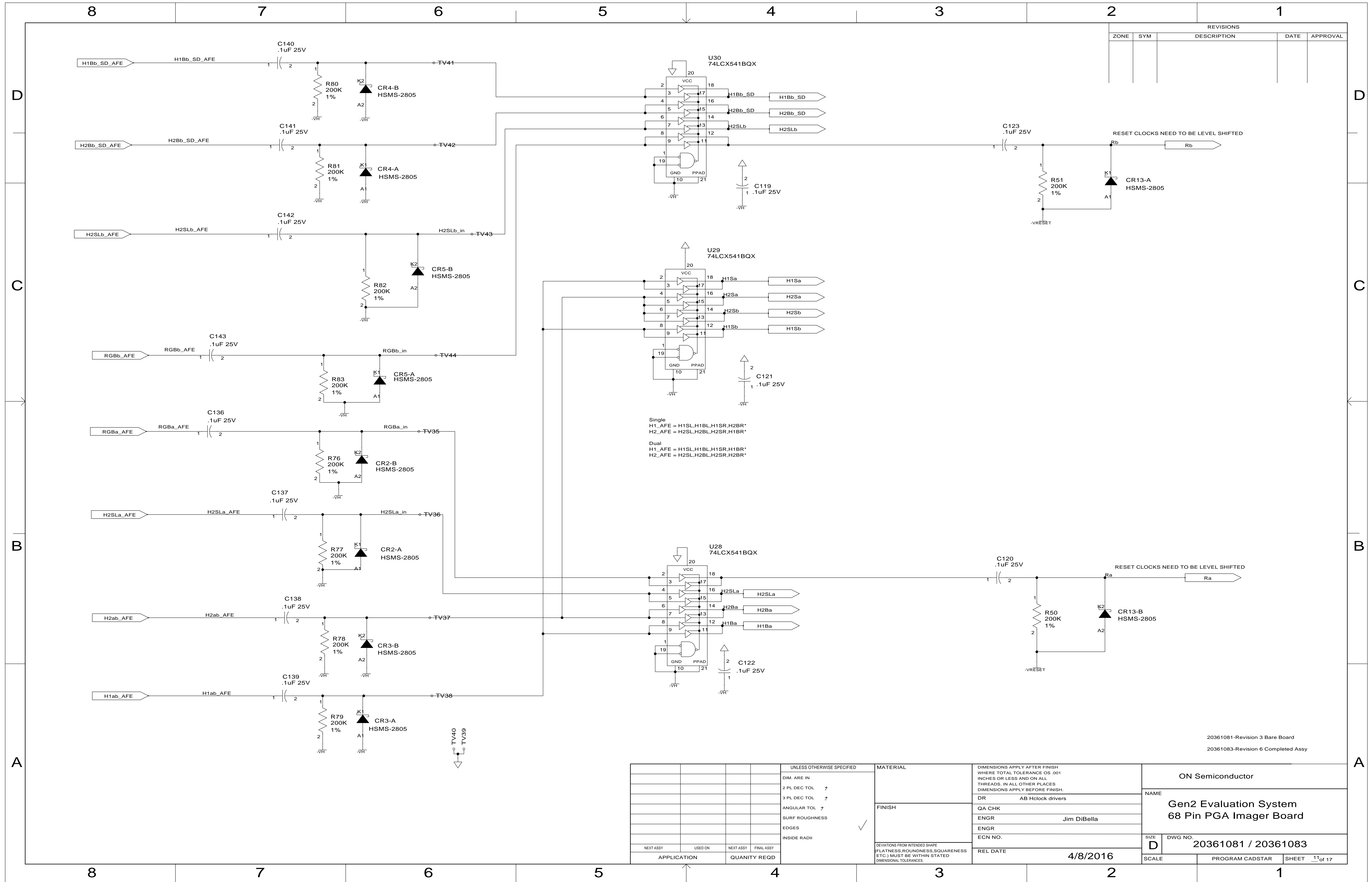
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

For 3V logic levels of V clock outputs
Set:
Vh to > 8VDC
Vm to +3.3
Vl to 0VDC
Use GIO for Sub Clock



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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 Analog Front End page 5		NAME	
2 PL DEC TOL ±			QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±		DEVIATIONS FROM INTENDED SHAPE (FLATNESS, ROUNDNESS, SQUARENESS, ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.	ENGR Jim DiBella		68 Pin PGA Imager Board	
ANGULAR TOL ±			ENGR		SIZE D	DWG NO. 20361081 / 20361083
SURF ROUGHNESS			ECN NO.		REL DATE 4/8/2016	SCALE
EDGES		REL DATE 4/8/2016		PROGRAM CADSTAR	SHEET 10 of 17	
INSIDE RADII		REL DATE 4/8/2016		PROGRAM CADSTAR		
NEXT ASSY	USED ON	NEXT ASSY	FNAL ASSY	SHEET 10 of 17		
APPLICATION	QUANTITY REQD		PROGRAM CADSTAR			

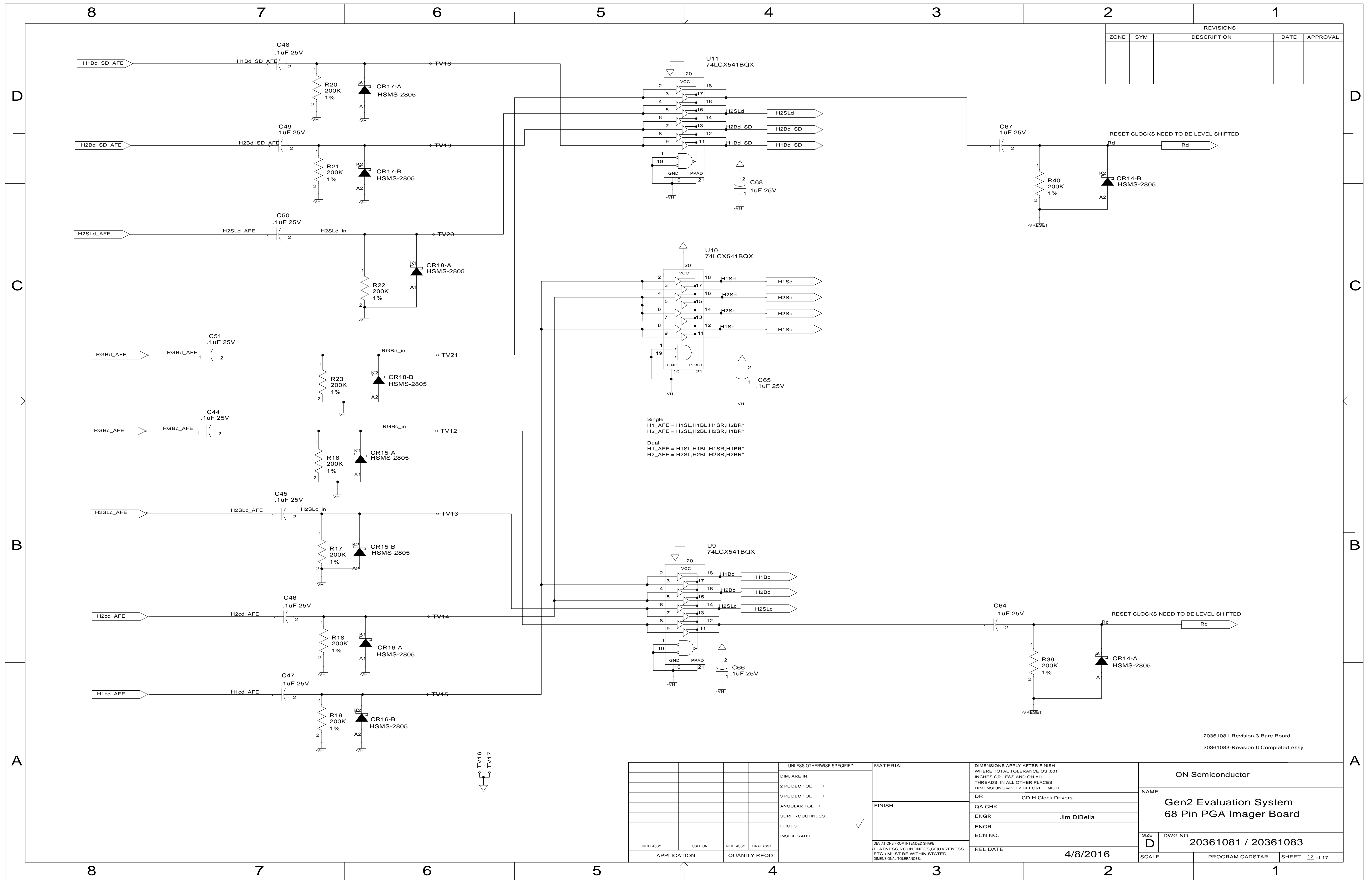


REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

Single
H1_AFE = H1SL,H1BL,H1SR,H2BR*
H2_AFE = H2SL,H2BL,H2SR,H1BR*
Dual
H1_AFE = H1SL,H1BL,H1SR,H1BR*
H2_AFE = H2SL,H2BL,H2SR,H2BR*

20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

UNLESS OTHERWISE SPECIFIED				MATERIAL		DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE OS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor	
DIM. ARE IN				FINISH		DR AB Hclock drivers		NAME	
2 PL DEC TOL ±						QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±						ENGR		68 Pin PGA Imager Board	
ANGULAR TOL ±						ENGR			
SURF ROUGHNESS						ECN NO.		SIZE D DWG NO. 20361081 / 20361083	
EDGES						REL DATE		SCALE	
INSIDE RADII						4/8/2016		PROGRAM CADSTAR SHEET 11 of 17	
NEXT ASSY		USED ON		NEXT ASSY		FINAL ASSY			
APPLICATION		QUANTITY REQD							



REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

Single
H1_AFE = H1SL,H1BL,H1SR,H2BR*
H2_AFE = H2SL,H2BL,H2SR,H1BR*
Dual
H1_AFE = H1SL,H1BL,H1SR,H1BR*
H2_AFE = H2SL,H2BL,H2SR,H2BR*

20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

UNLESS OTHERWISE SPECIFIED				MATERIAL		DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE OS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor	
DIM. ARE IN				FINISH		DR CD H Clock Drivers		NAME	
2 PL DEC TOL ±						QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±						ENGR		68 Pin PGA Imager Board	
ANGULAR TOL ±						ENGR			
SURF ROUGHNESS						ECN NO.		SIZE D DWG NO. 20361081 / 20361083	
EDGES						REL DATE		SCALE	
INSIDE RADII						4/8/2016		PROGRAM CADSTAR SHEET 12 of 17	
NEXT ASSY		USED ON		NEXT ASSY		FNAL ASSY			
APPLICATION		QUANTITY REQD							

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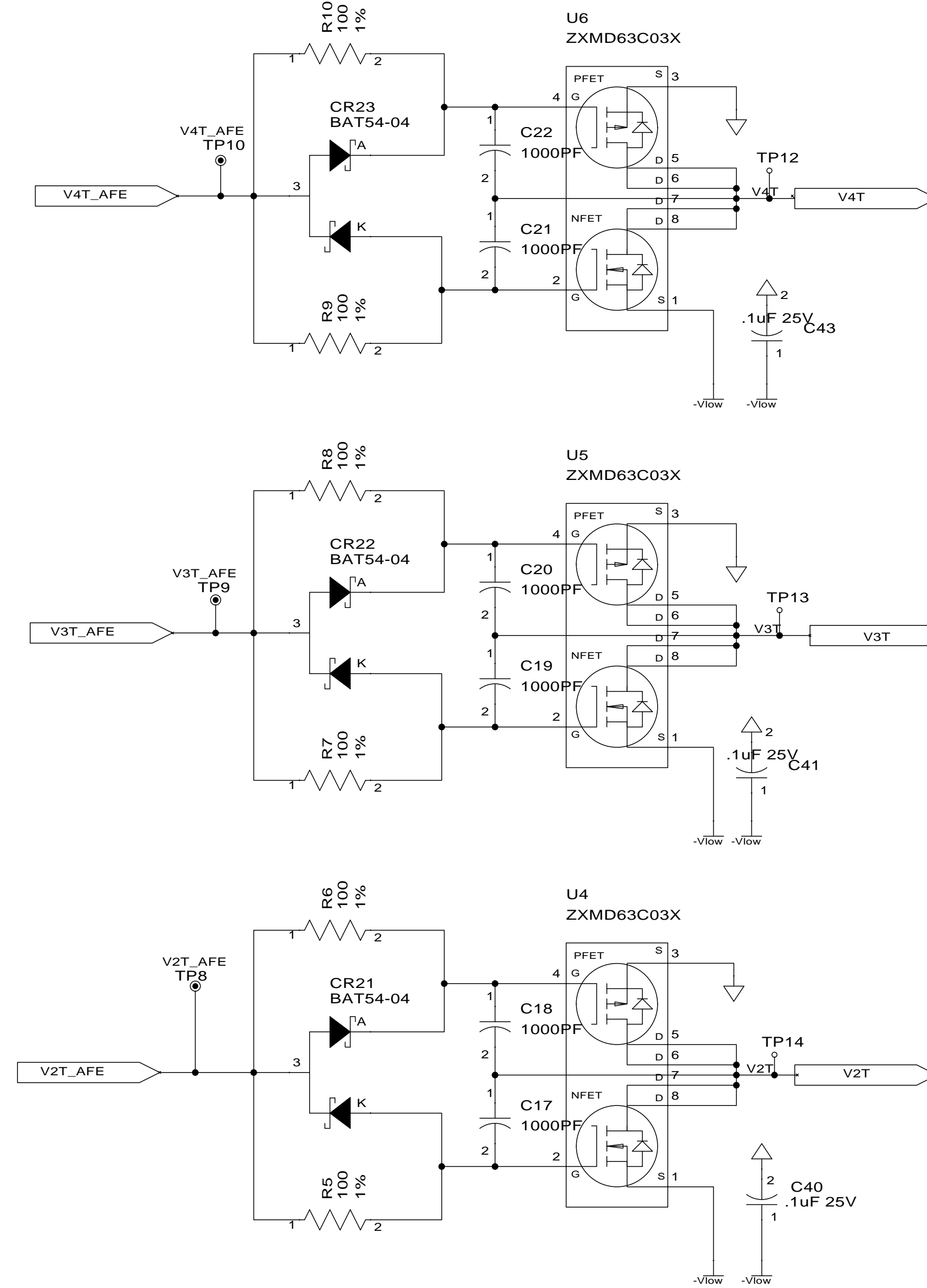
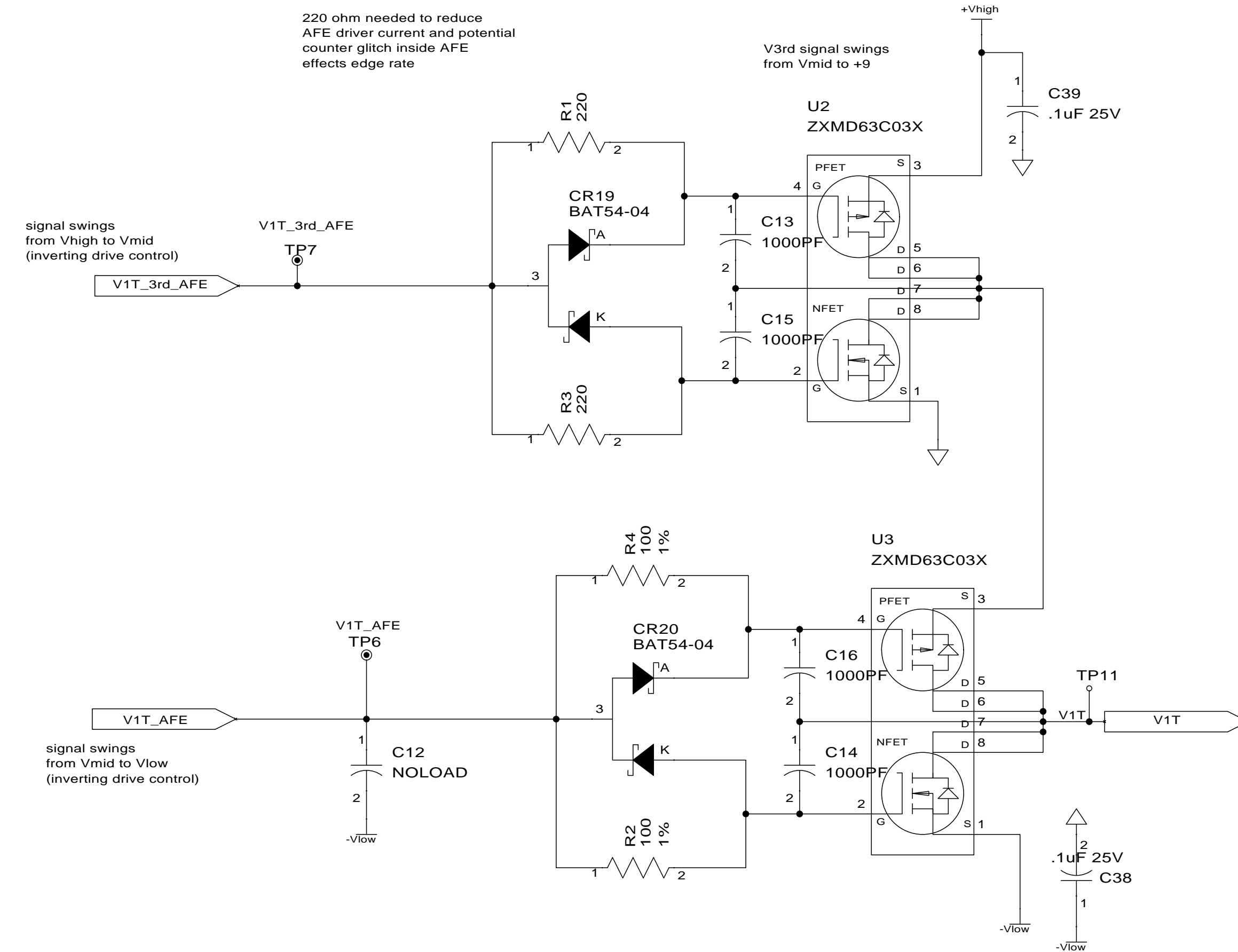
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REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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 Top V Clock Drivers		NAME	
2 PL DEC TOL ±						QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±						ENGR		68 Pin PGA Imager Board	
ANGULAR TOL ±						ENGR			
SURF ROUGHNESS						ECN NO.		SIZE D DWG NO. 20361081 / 20361083	
EDGES						REL DATE		SCALE	
INSIDE RADII						4/8/2016		PROGRAM CADSTAR SHEET 13 of 17	
NEXT ASSY		USED ON		NEXT ASSY		FNAL ASSY			
APPLICATION		QUANTITY REQD							

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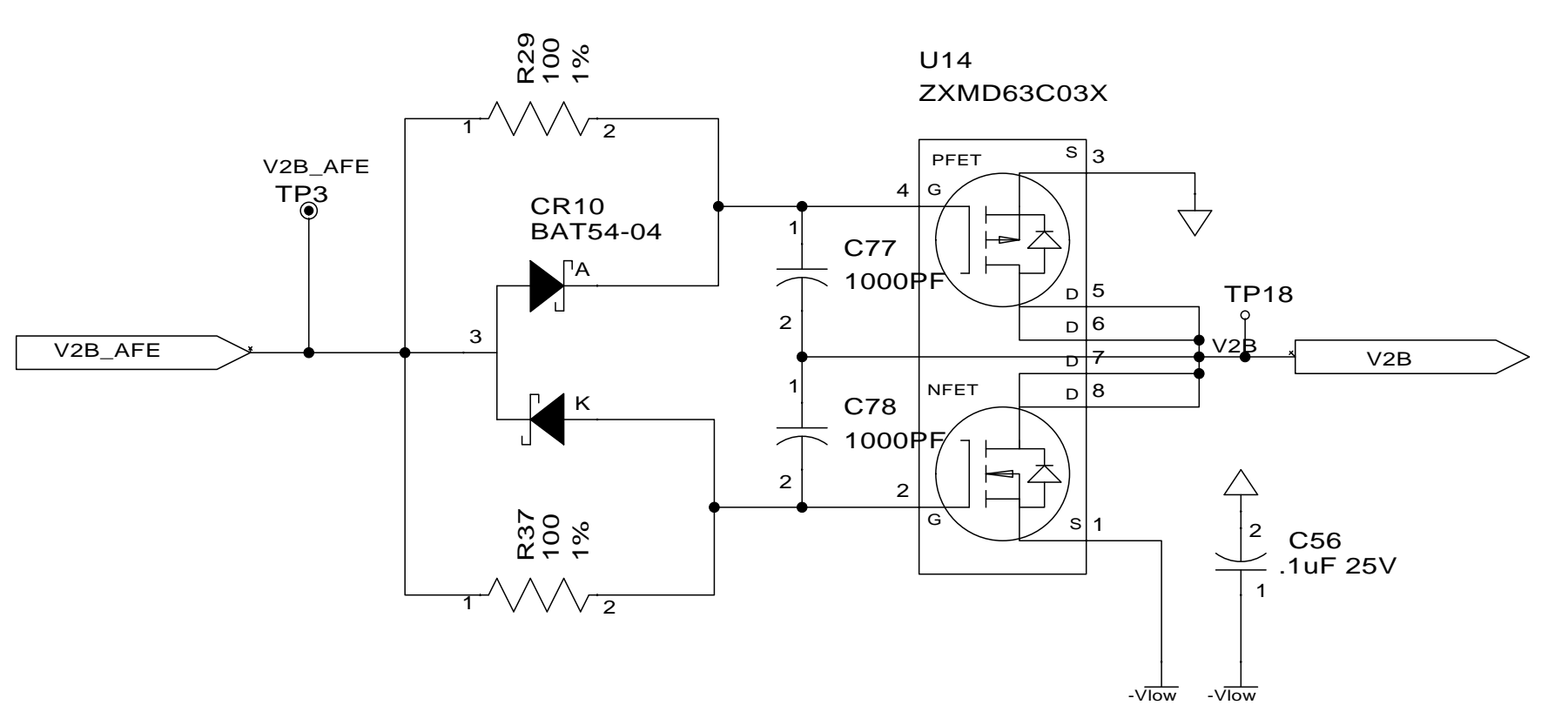
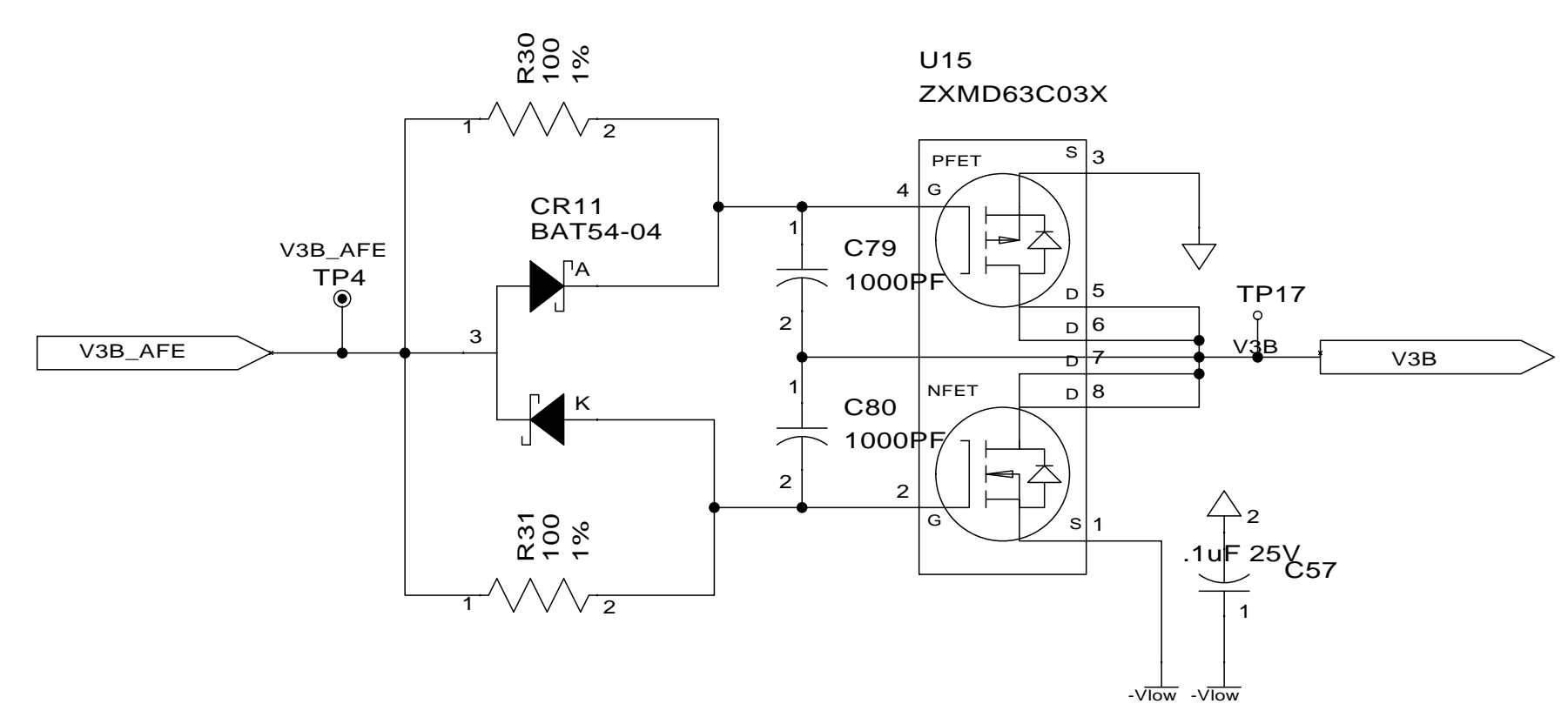
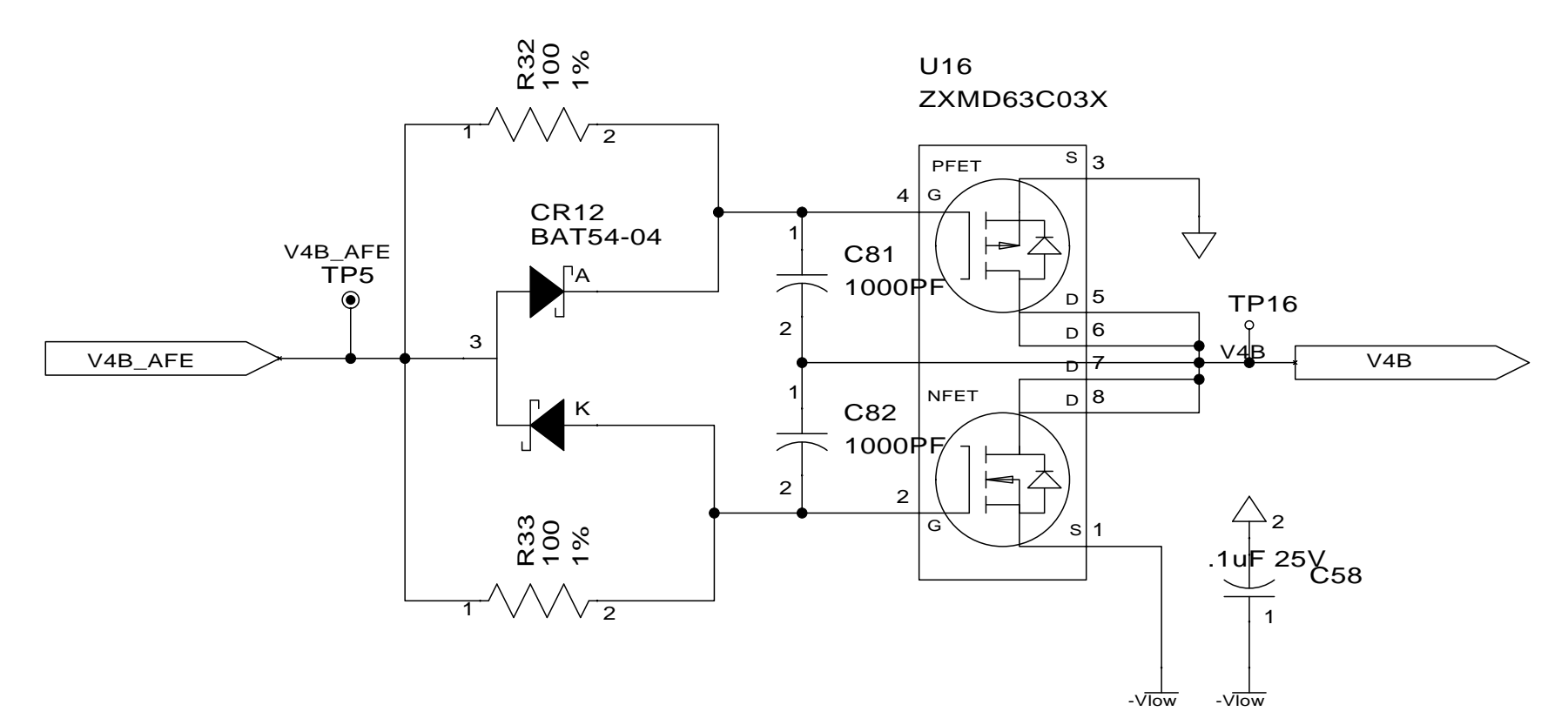
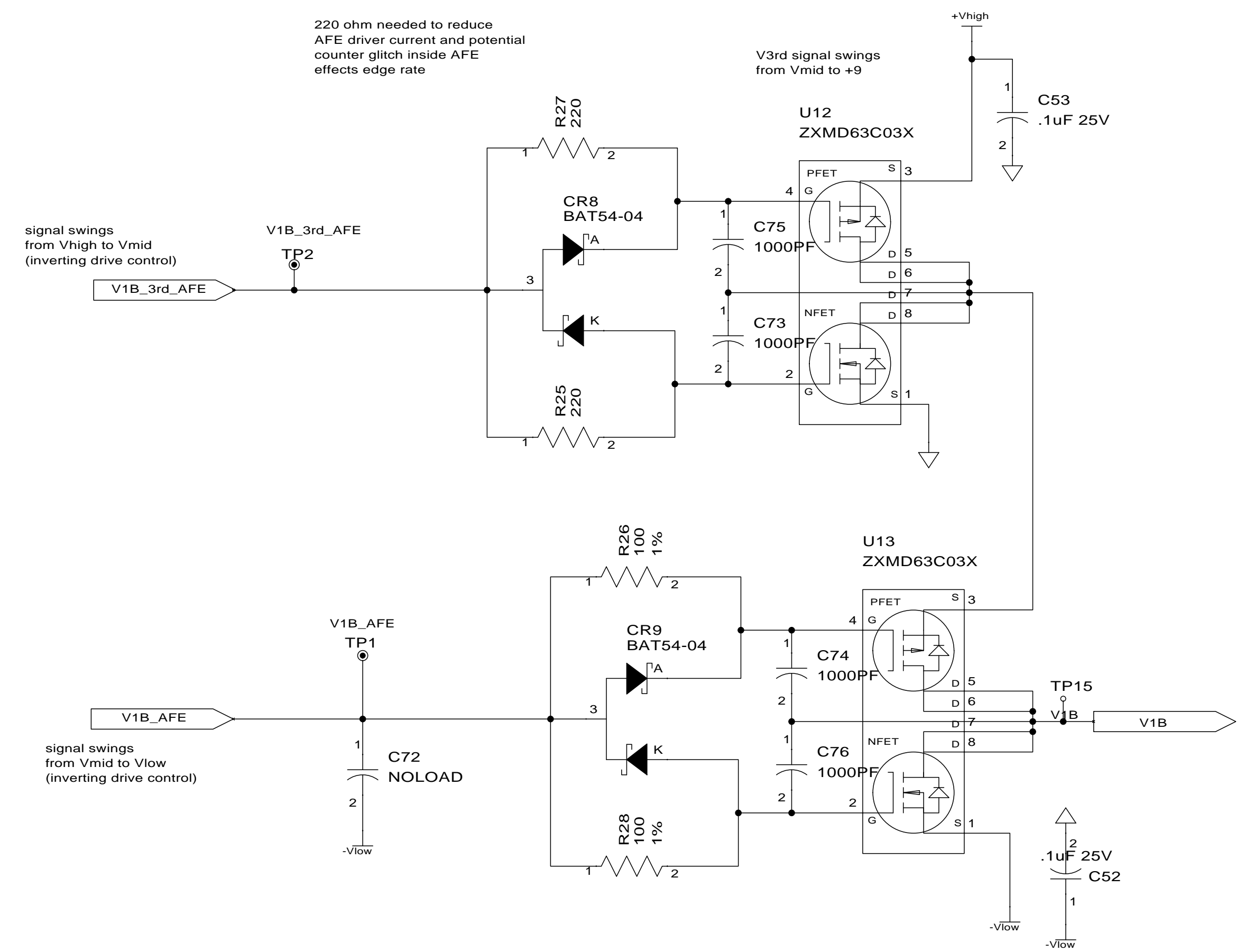
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REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

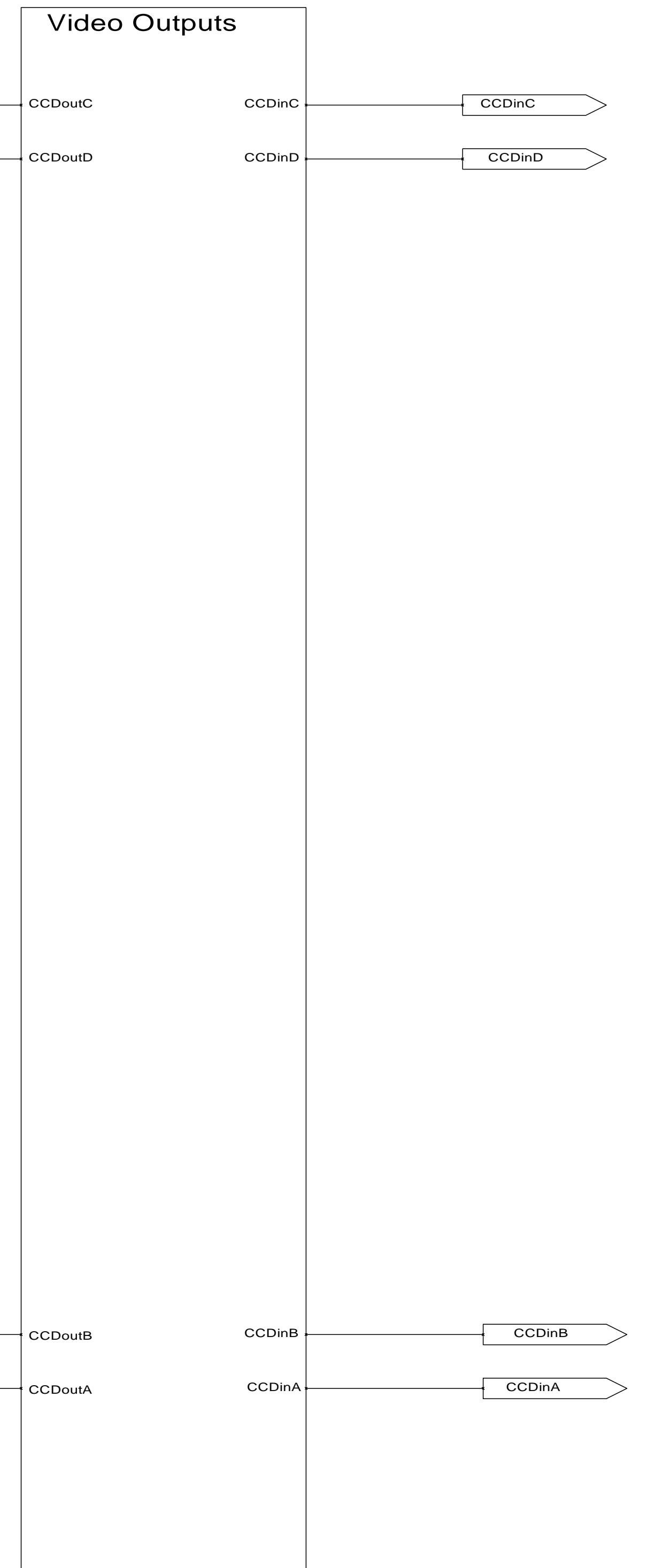
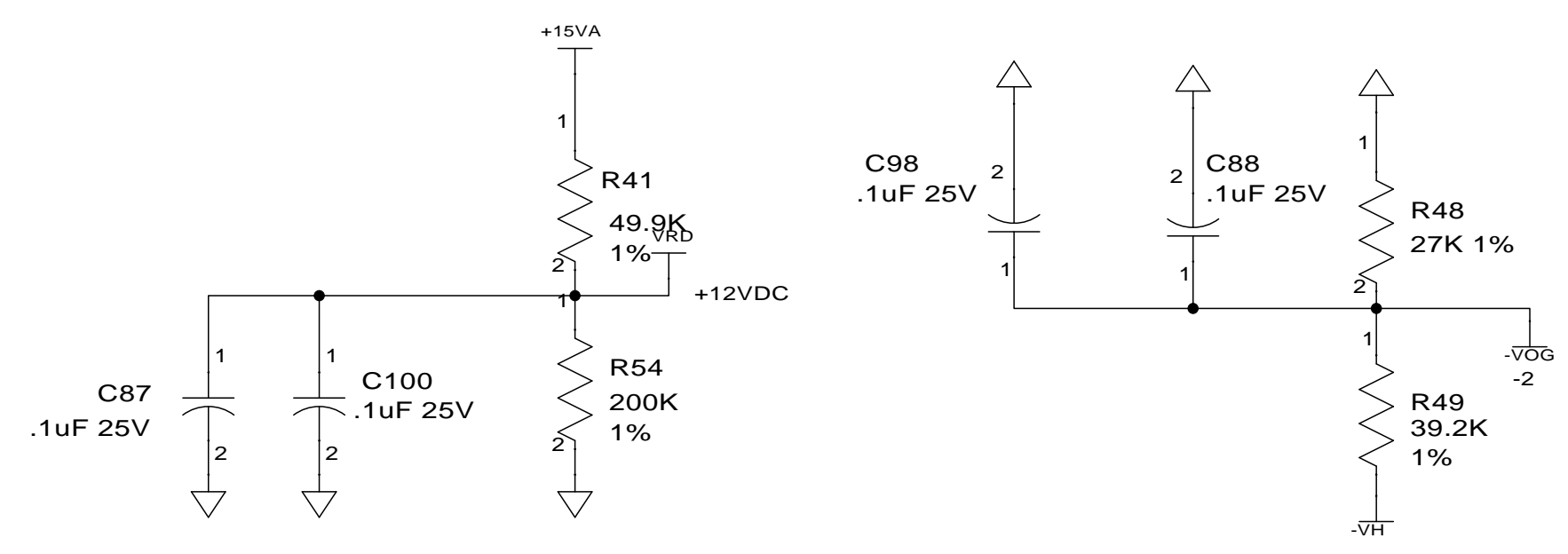
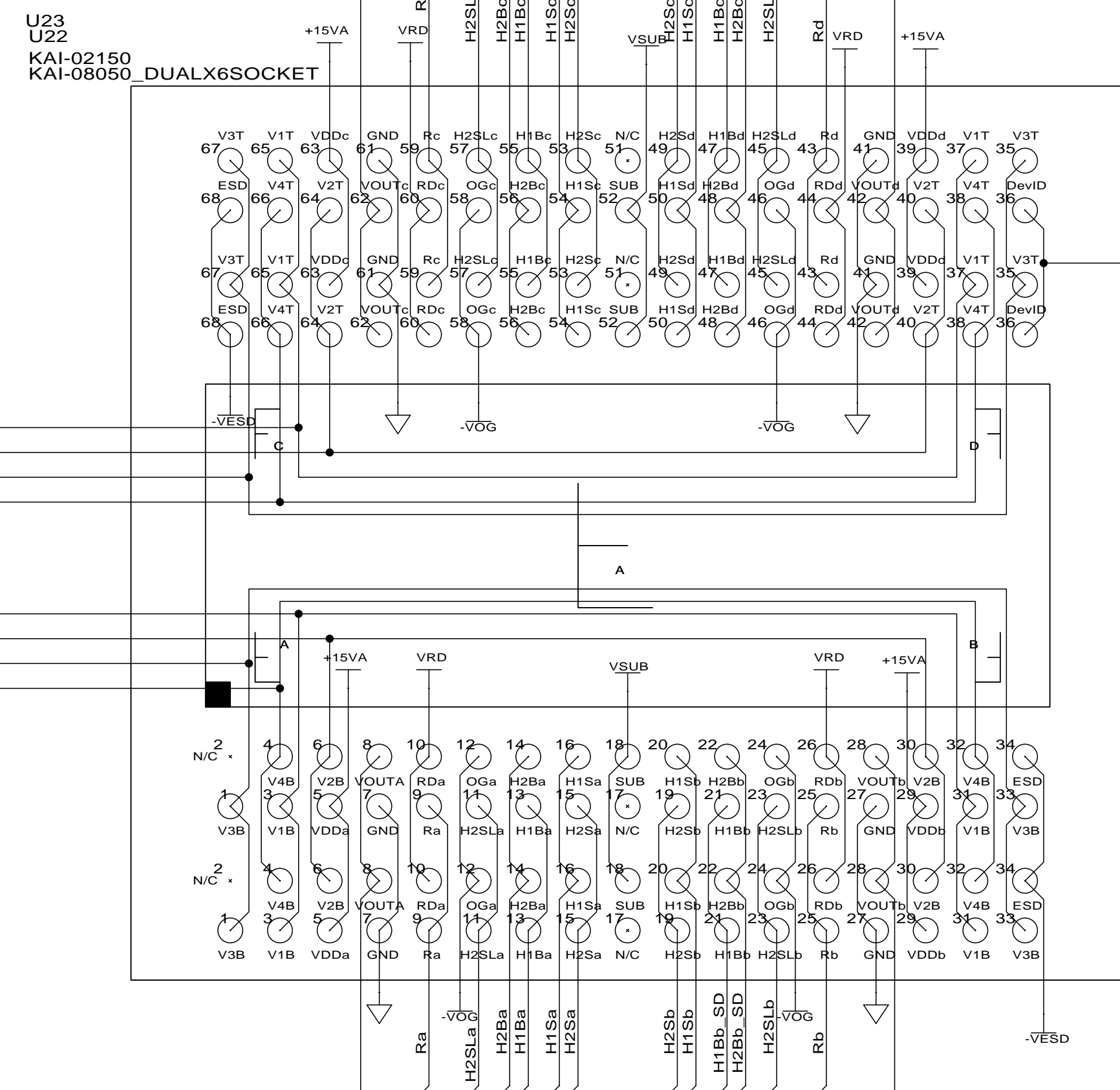
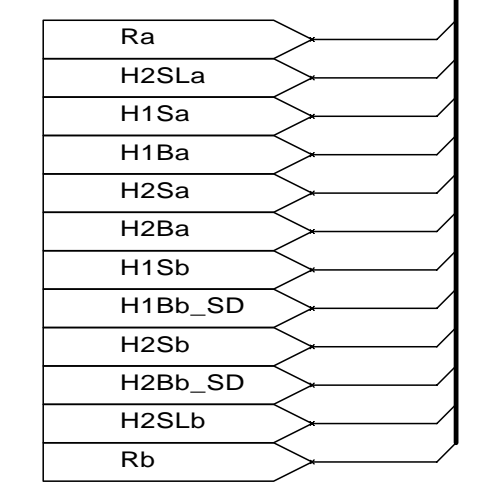
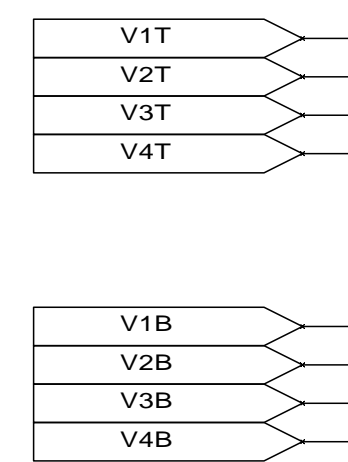
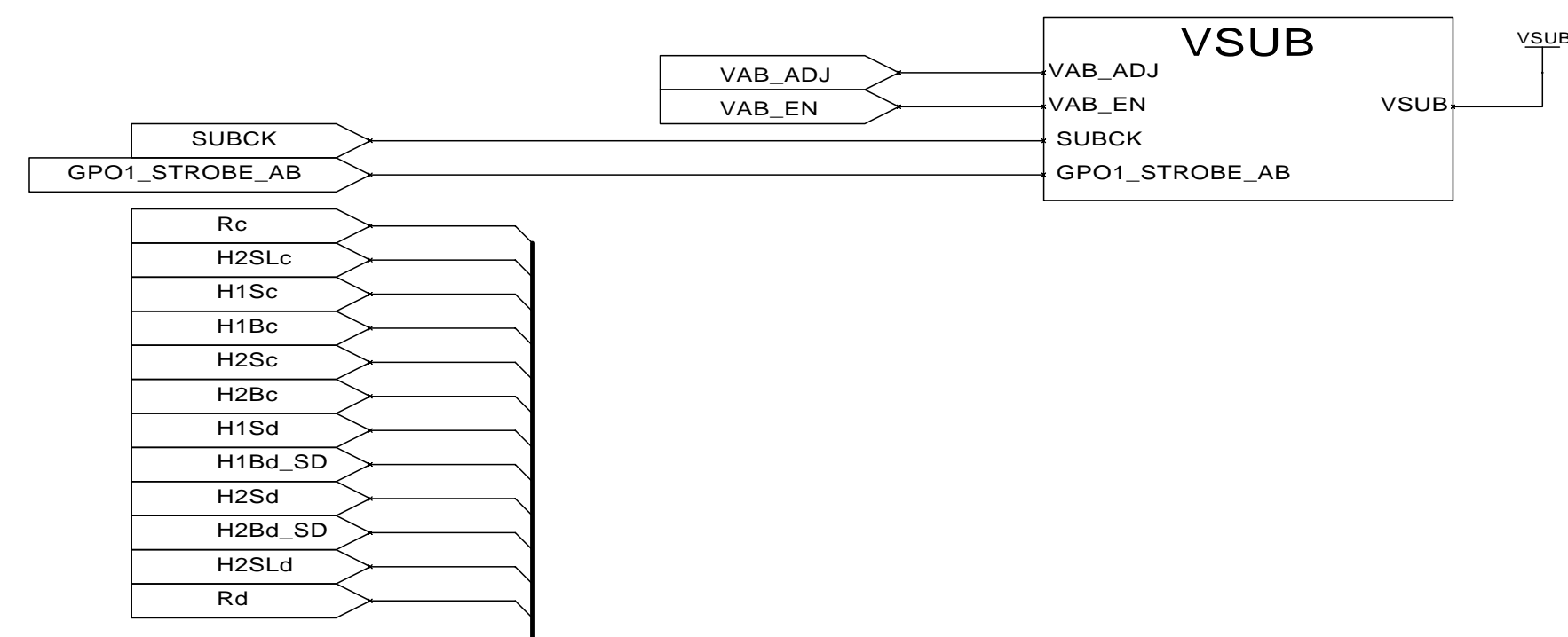


20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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 Bottom V Clock Drivers		NAME	
2 PL DEC TOL ±						QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±						ENGR Jim DiBella		68 Pin PGA Imager Board	
ANGULAR TOL ±						ENGR			
SURF ROUGHNESS						ECN NO.		SIZE D DWG NO. 20361081 / 20361083	
EDGES						REL DATE 4/8/2016		SCALE	
INSIDE RADII						PROGRAM CADSTAR		SHEET 14 of 17	
NEXT ASSY		USED ON		NEXT ASSY		FINAL ASSY			
APPLICATION		QUANTITY REQD							

8 7 6 5 4 3 2 1

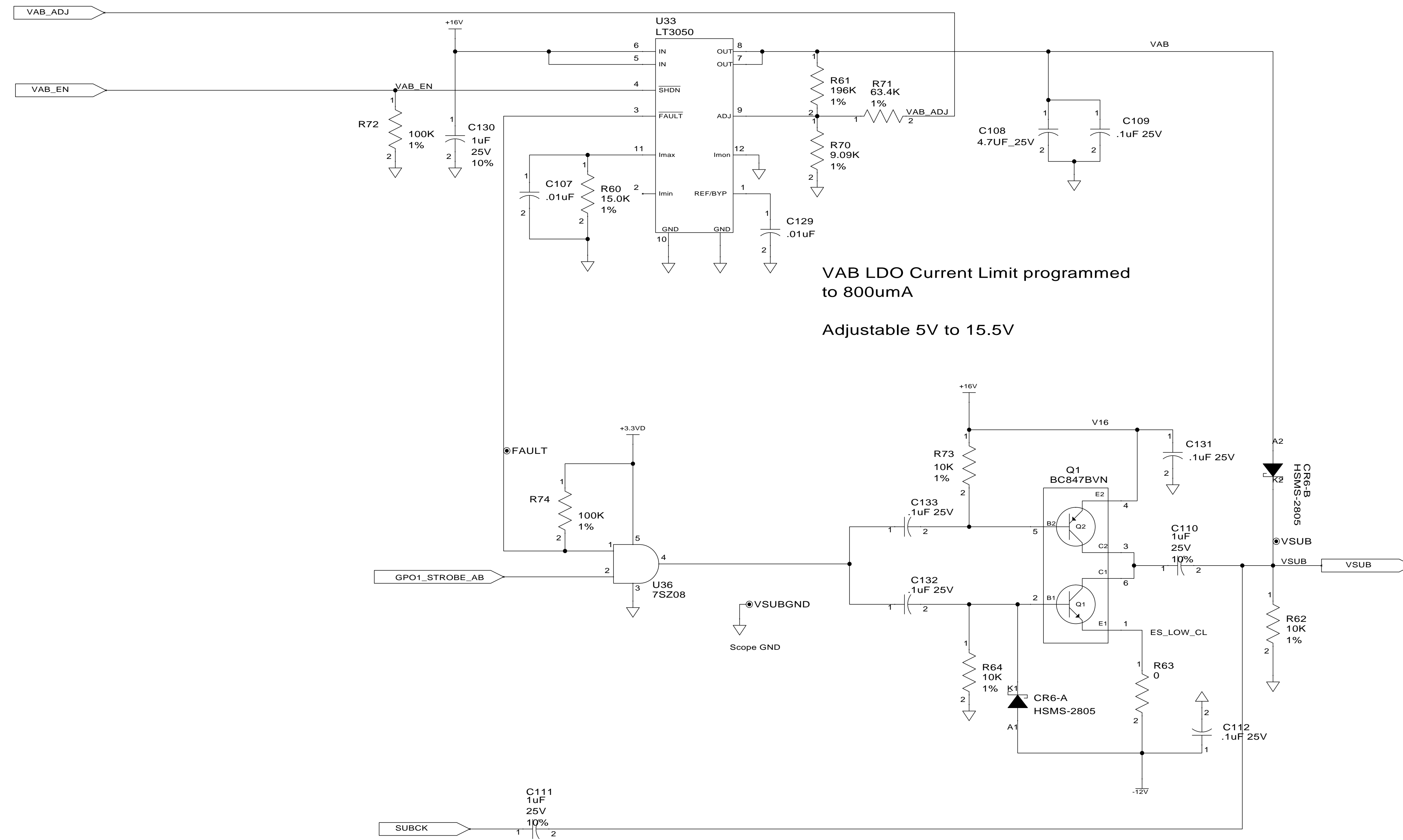
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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	+		DR Imager Interface QA CHK ENGR Jim DiBella ENGR ECN NO. REL DATE 4/8/2016	Gen2 Evaluation System	
3 PL DEC TOL	+	68 Pin PGA Imager Board			
ANGULAR TOL	+	Imager PCB Interface			
SURF ROUGHNESS		SIZE D		DWG NO. 20361081 / 20361083	
EDGES	✓	SCALE		PROGRAM CADSTAR	SHEET 15 of 17
INSIDE RADII		REL DATE	4/8/2016		
NEXT ASSY	USED ON	NEXT ASSY	FNAL ASSY		
APPLICATION		QUANTITY REQD			

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL
C4		Assy 20361083-Revision 5 to 6 Change R61 from 200K to 196K Change R71 from 71.5K to 63.4K	April 2016	



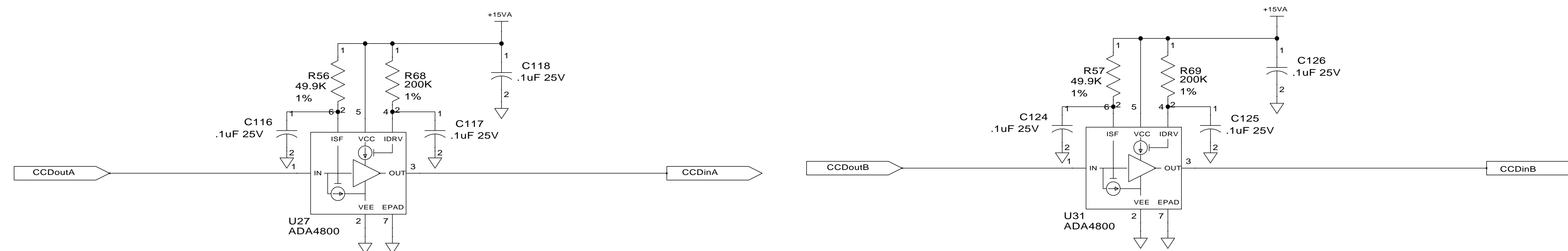
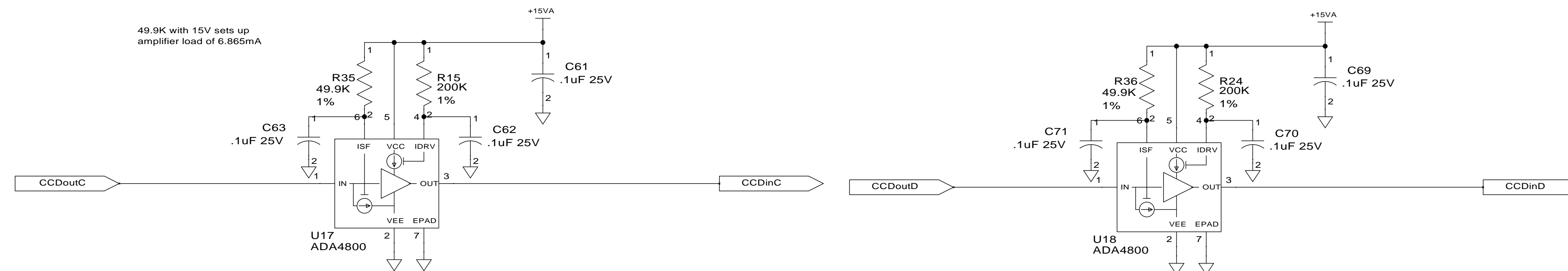
VAB LDO Current Limit programmed to 800µA
Adjustable 5V to 15.5V

Option to use TTL control for ES or To directly Drive CCD ES from AFE
Populate the corresponding coupling cap for the desired source of the ES

20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

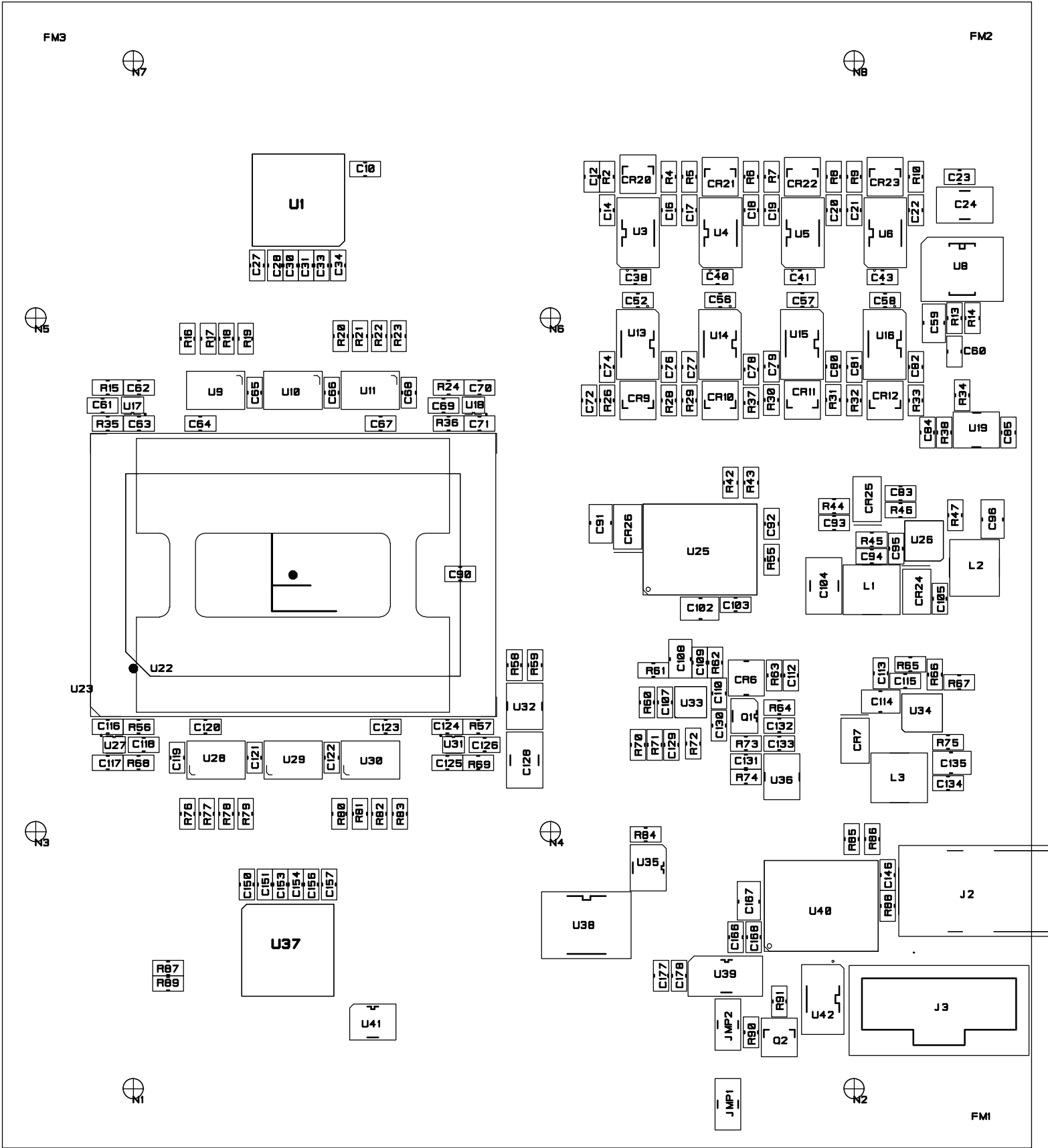
UNLESS OTHERWISE SPECIFIED		MATERIAL		DIMENSIONS APPLY AFTER FINISH WHERE TOTAL TOLERANCE IS .001 INCHES OR LESS AND ON ALL THREADS. IN ALL OTHER PLACES DIMENSIONS APPLY BEFORE FINISH.		ON Semiconductor	
DIM. ARE IN		FINISH		DR VSUB and Electronic Shutter		NAME	
2 PL DEC TOL ±		FLATNESS, ROUNDNESS, SQUARENESS ETC.) MUST BE WITHIN STATED DIMENSIONAL TOLERANCES.		QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±				ENGR		68 Pin PGA Imager Board	
ANGULAR TOL ±				ENGR		SIZE D DWG NO. 20361081 / 20361083	
SURF ROUGHNESS				ECN NO.		SCALE	
EDGES				REL DATE 4/8/2016		PROGRAM CADSTAR SHEET 16 of 17	
INSIDE RADII							
NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY				
APPLICATION	QUANTITY REQD						

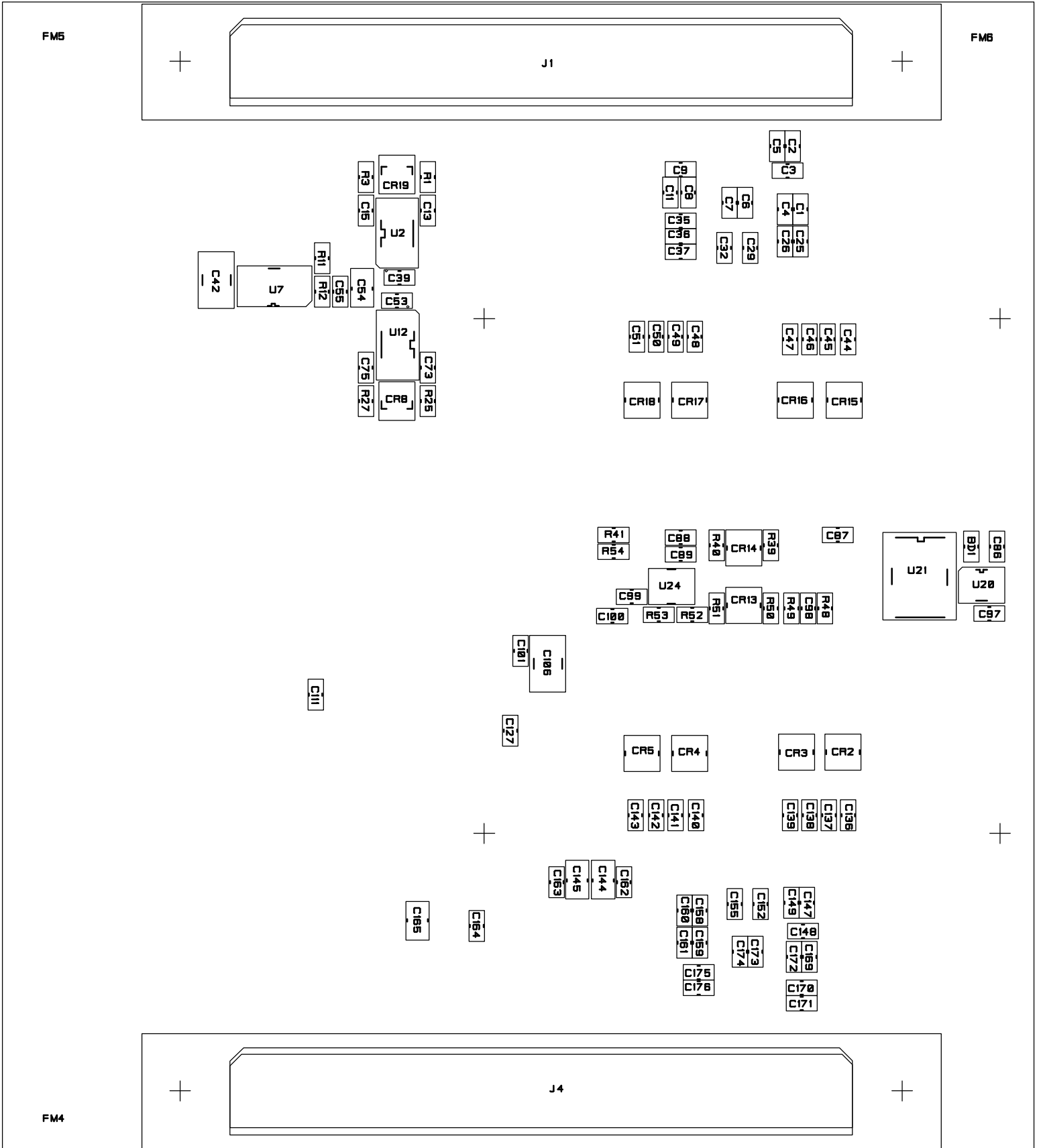
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL



20361081-Revision 3 Bare Board
20361083-Revision 6 Completed Assy

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 Video Output Buffers		NAME	
2 PL DEC TOL ±						QA CHK		Gen2 Evaluation System	
3 PL DEC TOL ±						ENGR Jim DiBella		68 Pin PGA Imager Board	
ANGULAR TOL ±						ENGR			
SURF ROUGHNESS						ECN NO.		SIZE D DWG NO. 20361081 / 20361083	
EDGES						REL DATE 4/8/2016		SCALE	
INSIDE RADII						PROGRAM CADSTAR		SHEET 17 of 17	
NEXT ASSY		USED ON		NEXT ASSY		FINAL ASSY			
APPLICATION		QUANTITY REQD							





Gen2 Eval 68 pin Imager
 Bare board 20361081 REV4
 Assembly 20361083 REV6

Parts List in CSV Format

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DO NOT POPULATE	Wednesday Digikey#	March 28 DESCRIPTION	MFG	PART_NUMBER	PART_NAME	PCB_REF_NAME	REFDES	PriceCT	PriceTR	Side
	LT3050EDDB#PBF-ND	100mA LDO with current limit and fault detect	LINEAR TECH	LT3050EDDB#PBF	U33	DFN3mmx2mm-12	LT3050	3.85	1.88	Top
DO NOT POPULATE		1206 SMT JUMPER		NONE	JMP1		1206 JUMP_1206_SMT			Top
		1206 SMT JUMPER		NONE	JMP2		1206 JUMP_1206_SMT			Top
	LT3479EDE#PBF-ND	3A DC/DC Converter	LINEAR TECH	LT3479EDE	U34	DFN4mmx3mm-14	LT3479EDE	3.23	3.18	Top
	LT3479EDE#PBF-ND	3A DC/DC Converter	LINEAR TECH	LT3479EDE	U26	DFN4mmx3mm-14	LT3479EDE	3.23	3.18	Top
	A33932-ND	5 POS SHROUDED MTE HDR ASS	AMP	104363-4	J3		104363-4	1.04	0.46	Top
	LT1175CS8#BFP-ND	ADJ REGULATOR LOW DROPOUT NEG	LINEAR	LT1175CS8#PBF	U8	SOIC-8_150	LT1175CS8	5.38	2.96	Top
	LT1761ES5-SD#CT-ND	ADJ REGULATOR LOW DROPOUT STDBY	LINEAR	LT1761-SD#TRM	U32	SOT23-5	LT1761ES5-SD	2.38	1.06	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C55		603 C.01UF_0603	0.02	0.005	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C60		603 C.01UF_0603	0.02	0.005	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C90		603 C.01UF_0603	0.02	0.005	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C177		603 C.01UF_0603	0.02	0.005	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C99		603 C.01UF_0603	0.02	0.005	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C115		603 C.01UF_0603	0.02	0.005	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C134		603 C.01UF_0603	0.02	0.005	Top
DO NOT POPULATE	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C129		603 C.01UF_0603	0.02	0.005	Top
	399-1091-1-ND	CAP .01UF 50WVDC 10%	KEMET	C0603C103K5RAC	C107		603 C.01UF_0603	0.02	0.005	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C86		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C97		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C151		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C153		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C156		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C154		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C149		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C170		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C171		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C175		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C176		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C158		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C173		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C150		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C157		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C152		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C32		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C3		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C35		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C4		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C11		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C159		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C148		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C169		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C155		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C29		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C163		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C162		603 C.1UF_0603_25V	0.39	0.09	Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C100		603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C87		603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C88		603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C98		603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C101		603 C.1UF_0603_25V			Top

	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C143	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C136	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C139	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C138	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C140	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C119	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C141	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C122	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C38	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C39	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C43	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C41	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C40	603 C.1UF_0603_25V			Top
	478-3726-1-ND	CAP .1UF 25WVDC @20%	MURATA	GRM39Y5V104Z025AD	C164	603 C.1UF_0603_25V			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C75	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C73	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C74	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C76	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C77	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C78	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C79	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C80	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C81	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C82	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C13	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C15	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C16	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C14	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C18	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C17	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C20	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C19	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C22	603 C1000PF_0603			Top
		CAP 1000PF 50VDC 10%	AVX	06035C102KAT4A	C21	603 C1000PF_0603			Top
		CAP 100PF 50WVDC 5%	KEMET	C0603C101J5GAC	C83	603 C100PF_0603			Top
	PCC2243CT-ND	CAP 10UF 25WVDC 20% X5R	Panasonic	ECJ-4YB1E106M	C106	1210 C10UF_1210_25V_20	1.26	0.56	Top
	PCC2243CT-ND	CAP 10UF 25WVDC 20% X5R	Panasonic	ECJ-4YB1E106M	C128	1210 C10UF_1210_25V_20	1.26	0.56	Top
	PCC2243CT-ND	CAP 10UF 25WVDC 20% X5R	Panasonic	ECJ-4YB1E106M	C104	1210 C10UF_1210_25V_20	1.26	0.56	Top
	511-1044-1-ND	CAP 2200PF 50WVDC 10%	KEMET	C0603C222K5RAC	C113	603 C2200PF_0603_50V_10%	0.07	0.01	Top
	511-1044-1-ND	CAP 2200PF 50WVDC 10%	KEMET	C0603C222K5RAC	C94	603 C2200PF_0603_50V_10%			Top
DO NOT POPULATE		CAP NOLOAD	MURATA	NOLOAD	C72	603 CNOLOAD_0603			Top
DO NOT POPULATE		CAP NOLOAD	MURATA	NOLOAD	C12	603 CNOLOAD_0603			Top
	490-3347-1-ND	CAP 10UF 16WVDC 80%	Murata	GDM21BF51C106ZE15L	C91	805 C10UF_0805_16V_80	0.34	0.05	Top
	490-3347-1-ND	CAP 10UF 16WVDC 80%	Murata	GDM21BF51C106ZE15L	C135	805 C10UF_0805_16V_80	0.34	0.05	Top
	490-3347-1-ND	CAP 10UF 16WVDC 80%	Murata	GDM21BF51C106ZE15L	C165	805 C10UF_0805_16V_80	0.34	0.05	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C127	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C178	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C166	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C84	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C89	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C105	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C130	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C110	603 C1UF_0603_25V_10	0.13	0.03	Top
	PCC2422CT-ND	CAP 1UF 25V 10%	Panasonic	ECJ-1VB1E105K	C111	603 C1UF_0603_25V_10	0.13	0.03	Top
DO NOT POPULATE	PCC1851TR-ND	CAP 2.2UF 16WVDC 20% Y5V	Panasonic	ECJ-2YF1C225Z	C54	805 C2.2UF_0805_16V	0.38	0.15	Top
	PCC1851TR-ND	CAP 2.2UF 16WVDC 20% Y5V	Panasonic	ECJ-2YF1C225Z	C59	805 C2.2UF_0805_16V	0.38	0.15	Top
	PCC1851TR-ND	CAP 2.2UF 16WVDC 20% Y5V	Panasonic	ECJ-2YF1C225Z	C102	805 C2.2UF_0805_16V	0.38	0.15	Top
	PCC1851TR-ND	CAP 2.2UF 16WVDC 20% Y5V	Panasonic	ECJ-2YF1C225Z	C96	805 C2.2UF_0805_16V	0.38	0.15	Top
	587-1373-1-ND	CAP 4.7UF 25WVDC 20%	TAIYO YUDEN	TMK325BJ475KN-T	C24	1210 C4.7UF_1210_25V20	0.66	0.22	Top
	587-1373-1-ND	CAP 4.7UF 25WVDC 20%	TAIYO YUDEN	TMK325BJ475KN-T	C42	1210 C4.7UF_1210_25V20	0.66	0.22	Top
	ADA4800	CCD BUFFER AMPLIFIER	Analog Devices	ADA4800	U31	ADA4800	0.54	0.31	Top

ADA4800	CCD BUFFER AMPLIFIER	Analog Devices	ADA4800	U18	LFCS_P_6	ADA4800	0.54	0.31	Top
ADA4800	CCD BUFFER AMPLIFIER	Analog Devices	ADA4800	U17	LFCS_P_6	ADA4800	0.54	0.31	Top
ADA4800	CCD BUFFER AMPLIFIER	Analog Devices	ADA4800	U27	LFCS_P_6	ADA4800	0.54	0.31	Top
AD9928	CCD DUAL Signal Processor with HV Timing Generator	Analog Devices	AD9928	U37	CSPBGA128_65mm_9x9	AD9928	15.46	5.93	Top
AD9928	CCD DUAL Signal Processor with HV Timing Generator	Analog Devices	AD9928	U1	CSPBGA128_65mm_9x9	AD9928	15.46	5.93	Top
PCC2321CT-ND	CERCAP 4.7UF 25WVDC 20% X5R	Panasonic	PCC2321CT-ND	C145		805 C4.7UF_0805_25V20	0.49	0.1	Top
PCC2321CT-ND	CERCAP 4.7UF 25WVDC 20% X5R	Panasonic	PCC2321CT-ND	C144		805 C4.7UF_0805_25V20	0.49	0.1	Top
PCC2321CT-ND	CERCAP 4.7UF 25WVDC 20% X5R	Panasonic	PCC2321CT-ND	C114		805 C4.7UF_0805_25V20	0.49	0.1	Top
PCC2321CT-ND	CERCAP 4.7UF 25WVDC 20% X5R	Panasonic	PCC2321CT-ND	C167		805 C4.7UF_0805_25V20	0.49	0.1	Top
PCC2321CT-ND	CERCAP 4.7UF 25WVDC 20% X5R	Panasonic	PCC2321CT-ND	C108		805 C4.7UF_0805_25V20	0.49	0.1	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C160		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C147		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C174		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C8		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C1		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C161		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C172		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C37		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C25		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
PCC2396CT-ND	CERCAP 4.7UF 6.3WVDC 10%	Panasonic	ECJ-1V80J475K	C6		603 C4.7UF_0603_6V3_10	0.19	0.04	Top
ASP-122952-01	CONNECTOR 5mm BOARD TO BOARD Mezzanine	SAMTEC	ASP-122952-01	J1	ASP122952	ASP-122952-01	8.04	4.52	Top
ASP-122952-01	CONNECTOR 5mm BOARD TO BOARD Mezzanine	SAMTEC	ASP-122952-01	J4	ASP122952	ASP-122952-01	8.04	4.52	Top
CTX280LVCT-ND	CRYSTAL OSCILLATOR 40MHz 50ppm	CTS	CB3LV-3C-40MHZ	U21	F4100	CB3-3C-40.0000	3.75	1.17	Top
	DIODE DUAL	HP	HSMS-2805-T31	CR16	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR14	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR17	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR18	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR15	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR6	SOT143	HSMS2805	0	0	Top
	DIODE DUAL	HP	HSMS-2805-T31	CR2	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR5	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR4	SOT143	HSMS2805			Top
	DIODE DUAL	HP	HSMS-2805-T31	CR3	SOT143	HSMS2805	0	0	Top
	DIODE DUAL	HP	HSMS-2805-T31	CR13	SOT143	HSMS2805	0	0	Top
296-13261-1-ND	Dual TINY INVERTER	TI	SN74LVC2G04DBVR	U20	SOT23-6	SN74LVC2G04	0.43	0.12	Top
296-13261-1-ND	Dual TINY INVERTER	TI	SN74LVC2G04DBVR	U41	SOT23-6	SN74LVC2G04	0.43	0.12	Top
490-1014-1-ND	EMI FILTER	MURATA ERIE	BLM18AG601SN1D	BD1		603 BLM18AG601SN1D	0.06	0.03	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U42	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U12	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U13	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U14	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U15	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U16	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U2	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U3	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U4	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U5	MO-187	ZXMD63C03X	0	0	Top
	IC N/P-CHANNEL FAST SWITCH FET	ZETEX	ZXMD63C03X	U6	MO-187	ZXMD63C03X	0	0	Top
LTC1665CGN-ND	IC 10 BIT DAC 8CH	LINEAR	LTC1665CGN	U38	SSOP-16_150	LTC1665C	6.38	3.2	Top
ADC0815021CIMFCT-ND	IC 8 BIT ADC	A/D	ADC0815021	U35	SOT23-6	ADC081	2.28	0.94	Top
587-2409-1-ND	INDUCTOR 10uH 1.3A	Taiyo	NRS5020T100MMGJ	L3	NRS5020	NRS5020T100MMGJ	0.072	0.16	Top
587-2409-1-ND	INDUCTOR 10uH 1.3A	Taiyo	NRS5020T100MMGJ	L2	NRS5020	NRS5020T100MMGJ	0.072	0.16	Top
587-2409-1-ND	INDUCTOR 10uH 1.3A	Taiyo	NRS5020T100MMGJ	L1	NRS5020	NRS5020T100MMGJ	0.072	0.16	Top
DO NOT POPULATE	CP-002APJCT-ND	CUI	PJ-002A	J2	PJ-002A-SMT	PJ-002A-SMT	0.7	0.25	Top
	74LCX541BQX-ND	On-Semi	74LCX541BQX	U11	DQFN_20	74LCX541BQX	0.78	0.35	Top
	74LCX541BQX-ND	On-Semi	74LCX541BQX	U10	DQFN_20	74LCX541BQX	0.78	0.35	Top
	74LCX541BQX-ND	On-Semi	74LCX541BQX	U9	DQFN_20	74LCX541BQX	0.78	0.35	Top
	74LCX541BQX-ND	On-Semi	74LCX541BQX	U30	DQFN_20	74LCX541BQX	0.78	0.35	Top
	74LCX541BQX-ND	On-Semi	74LCX541BQX	U28	DQFN_20	74LCX541BQX	0.78	0.35	Top
	74LCX541BQX-ND	On-Semi	74LCX541BQX	U29	DQFN_20	74LCX541BQX	0.78	0.35	Top
	Quad Output Interline CCD IS230D-97134-75M-R29-L14-A	ANDON	IS230D-97134-75M-R29-L14	U23	KAI-08050W	KAI-08050	\$35	\$25	Top

LT1521CMS8-3.3-ND	REG LDO 3.3V 300mA	LINEAR	LT1521CMS8-3.3	U39	MSOP-8	LT1521-3.3	2.38	1.01	Top
**LT1965EMS8E#PBF-ND	REGULATOR LOW DROPOUT NEG	LINEAR	LT1965EMS8E#PBF	U7	MSOP-8-PWRPAD	LT1965EMS8E	3.25	1.43	Top
LT1964ES5-SD#TRMPBFACT-ND	REGULATOR LOW DROPOUT NEG with SHUTDOWN	LINEAR	LT1964ES5-SD	U19	SOT23-5	LT1964ES5-SD	3.25	1.43	Top
LT1964ES5-SD#TRMPBFACT-ND	REGULATOR LOW DROPOUT NEG with SHUTDOWN	LINEAR	LT1964ES5-SD	U24	SOT23-5	LT1964ES5-SD	3.25	1.43	Top
541-0.0GCT-ND	RESISTOR 0	DALE	CRCW06030000Z0EA	R89		603 R0_0603	0.07	0.02	Top
541-0.0GCT-ND	RESISTOR 0	DALE	CRCW06030000Z0EA	R87		603 R0_0603	0.07	0.02	Top
541-0.0GCT-ND	RESISTOR 0	DALE	CRCW06030000Z0EA	R63		603 R0_0603	0.07	0.02	Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R26		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R28		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R29		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R37		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R30		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R31		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R32		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R33		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R4		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R2		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R6		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R5		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R8		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R7		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R10		603 R1000_0603			Top
	RESISTOR 100 1/16W 1%	DALE	CRCW06031000FT	R9		603 R1000_0603			Top
	RESISTOR 100K 1/16W 1%	DALE	CRCW06031003FT	R74		603 R1003_0603			Top
	RESISTOR 100K 1/16W 1%	DALE	CRCW06031003FT	R72		603 R1003_0603			Top
P10.0KLCT-ND	RESISTOR 10K 1/16W 1%	DALE	CRCW060310K0FKEA	R65		603 R1002_0603	0.047	0.009	Top
P10.0KLCT-ND	RESISTOR 10K 1/16W 1%	DALE	CRCW060310K0FKEA	R46		603 R1002_0603			Top
P10.0KLCT-ND	RESISTOR 10K 1/16W 1%	DALE	CRCW060310K0FKEA	R45		603 R1002_0603			Top
P10.0KLCT-ND	RESISTOR 10K 1/16W 1%	DALE	CRCW060310K0FKEA	R73		603 R1002_0603	0.047	0.009	Top
P10.0KLCT-ND	RESISTOR 10K 1/16W 1%	DALE	CRCW060310K0FKEA	R64		603 R1002_0603	0.047	0.009	Top
P10.0KLCT-ND	RESISTOR 10K 1/16W 1%	DALE	CRCW060310K0FKEA	R62		603 R1002_0603	0.047	0.009	Top
P10.0KLCT-ND	RESISTOR 10K 1/16W 1%	DALE	CRCW060310K0FKEA	R84		603 R1002_0603	0.047	0.009	Top
P15KGCT-ND	RESISTOR 15.0K 1/16W 1	Panasonic	ERJ-3GEYJ153V	R90		603 R1502_0603	0.07	0.014	Top
P15KGCT-ND	RESISTOR 15.0K 1/16W 1	Panasonic	ERJ-3GEYJ153V	R91		603 R1502_0603	0.07	0.014	Top
P15KGCT-ND	RESISTOR 15.0K 1/16W 1	Panasonic	ERJ-3GEYJ153V	R55		603 R1502_0603	0.07	0.014	Top
P15KGCT-ND	RESISTOR 15.0K 1/16W 1	Panasonic	ERJ-3GEYJ153V	R75		603 R1502_0603	0.07	0.014	Top
P15KGCT-ND	RESISTOR 15.0K 1/16W 1	Panasonic	ERJ-3GEYJ153V	R88		603 R1502_0603	0.07	0.014	Top
P15KGCT-ND	RESISTOR 15.0K 1/16W 1	Panasonic	ERJ-3GEYJ153V	R47		603 R1502_0603	0.07	0.014	Top
P15KGCT-ND	RESISTOR 15.0K 1/16W 1	Panasonic	ERJ-3GEYJ153V	R60		603 R1502_0603	0.07	0.014	Top
P15KGCT-ND	RESISTOR 16.5K 1/16W 1%	DALE	CRCW06031652FT	R67		603 R1652_0603	0.07	0.014	Top
541-162KHCT-ND	RESISTOR 162K 1/16W 1%	DALE	CRCW0603162KFKEA	R14		603 R1623_0603	0.08	0.02	Top
	RESISTOR 17.4K 1/16W 1%	DALE	CRCW06031742FT	R59		603 R1742_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R54		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R13		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R38		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R58		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R12		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R52		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R40		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R22		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R17		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R19		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R20		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R18		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R21		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R23		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R16		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R39		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R66		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R15		603 R2003_0603	0	0	Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R24		603 R2003_0603	0	0	Top

	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R68		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R69		603 R2003_0603	0	0 Top
311-196KHRTR-ND	RESISTOR 196K 1/16W 1%	Yageo	RC0603FR-07196KL	R61		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R80		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R51		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R82		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R77		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R50		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R79		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R78		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R81		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R83		603 R2003_0603	0	0 Top
	RESISTOR 200K 1/16W 1%	DALE	CRCW06032003FT	R76		603 R2003_0603	0	0 Top
541-220GCT-ND	RESISTOR 220 1/16W 5%	Vishay/DALE	CRCW0603220RJNEA	R27		603 R220_0603	0.08	0.01 Top
541-220GCT-ND	RESISTOR 220 1/16W 5%	Vishay/DALE	CRCW0603220RJNEA	R25		603 R220_0603	0.08	0.01 Top
541-220GCT-ND	RESISTOR 220 1/16W 5%	Vishay/DALE	CRCW0603220RJNEA	R3		603 R220_0603	0.08	0.01 Top
541-220GCT-ND	RESISTOR 220 1/16W 5%	Vishay/DALE	CRCW0603220RJNEA	R1		603 R220_0603	0.08	0.01 Top
541-23.2KHCT-ND	RESISTOR 23.2K 1/16W 1%	Vishay/DALE	CRCW060323K2FKEA	R11		603 R2322_0603	0.08	0.02 Top
	RESISTOR 24.9K 1/16W 1%	DALE	CRCW06032492FT	R85		603 R2492_0603		Top
P27KGCT-ND	RESISTOR 27K ohm 1/16W 1%	ROHM	ERJ-3GEYJ273V	R48		603 R2702_0603	0.07	0.01 Top
P27KGCT-ND	RESISTOR 27K ohm 1/16W 1%	ROHM	ERJ-3GEYJ273V	R42		603 R2702_0603	0.07	0.01 Top
541-422KHCT-ND	RESISTOR 309K 1/16W 1%	Vishay/DALE	CRCW0603309KFKEA	R53		603 R3093_0603	0.08	0 Top
	RESISTOR 31.6K ohm 1/16W 1%	Vishay/DALE	CRCW060331K6FKEA	R34		603 R3162_0603	0.047	0.009 Top
	RESISTOR 39.2K 1/10W 1%	DALE	CRCW06033922FT	R49		603 R3922_0603		Top
541-49.9KHCT-ND	RESISTOR 49.9K 1/16W 1%	Vishay/DALE	CRCW060349K9FKEA	R41		603 R4992_0603	0.08	0.02 Top
541-49.9KHCT-ND	RESISTOR 49.9K 1/16W 1%	Vishay/DALE	CRCW060349K9FKEA	R35		603 R4992_0603	0.08	0.02 Top
541-49.9KHCT-ND	RESISTOR 49.9K 1/16W 1%	Vishay/DALE	CRCW060349K9FKEA	R36		603 R4992_0603	0.08	0.02 Top
541-49.9KHCT-ND	RESISTOR 49.9K 1/16W 1%	Vishay/DALE	CRCW060349K9FKEA	R57		603 R4992_0603	0.08	0.02 Top
541-49.9KHCT-ND	RESISTOR 49.9K 1/16W 1%	Vishay/DALE	CRCW060349K9FKEA	R56		603 R4992_0603	0.08	0.02 Top
311-63.4KHRTR-ND	RESISTOR 63.4K 1/16W 1%	Yageo	RC0603FR-0763K4L	R71		603 R7152_0603		Top
	RESISTOR 75.0K 1/16W 1%	DALE	CRCW06037502FT	R86		603 R7502_0603		Top
	RESISTOR 9.09K 1/16W 1%	DALE	CRCW06039091FT	R70		603 R9091_0603	0	0 Top
	RESISTOR 93.1K 1/16W 1%	Vishay/DALE	CRCW060393K1FKEA	R43		603 R9312_0603	0	0 Top
P97.6KLCT-ND	RESISTOR 95.3K 1/16W 1%	DALE	CRCW06039532FT	R44		603 R9532_0603	0.047	0.009 Top
MBRM120ET3GOSCT-ND	SCHOTTKY BARRIER RECTIFIER 1A 20V	ON Semi	MBRM120E	CR26	CASE457	MBRM120E	0.38	0.13 Top
MBRM120ET3GOSCT-ND	SCHOTTKY BARRIER RECTIFIER 1A 20V	ON Semi	MBRM120E	CR7	CASE457	MBRM120E	0.38	0.13 Top
MBRM120ET3GOSCT-ND	SCHOTTKY BARRIER RECTIFIER 1A 20V	ON Semi	MBRM120E	CR24	CASE457	MBRM120E	0.38	0.13 Top
MBRM120ET3GOSCT-ND	SCHOTTKY BARRIER RECTIFIER 1A 20V	ON Semi	MBRM120E	CR25	CASE457	MBRM120E	0.38	0.13 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR9	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR10	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR11	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR12	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR8	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR19	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR20	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR21	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR22	SOT23	BAT54-04	0.58	0.07 Top
BAT54-04E6327INCT-ND	SCHOTTKY DUAL SERIES	Diodes Inc/Zetex	BAT54-04	CR23	SOT23	BAT54-04	0.58	0.07 Top
LTM8022EV#PFB-ND	Step Down uModule Regulator	LINEAR	LTM8022	U25	LTM8022	LTM8022	15	10 Top
LTM8022EV#PFB-ND	Step Down uModule Regulator	LINEAR	LTM8022	U40	LTM8022	LTM8022	15	10 Top
NC7SZ08M5XCT-ND	TINY AND GATE	FAIRCHILD	NC7SZ08M5X	U36	SOT23-5	NC7SZ08	0.33	0.07 Top
BC847BVNDICT-ND	TRANSISTOR DUAL DIGITAL PNP/NPN	Diodes Inc	BC847BVN	Q1	SOT563	BC847BVN	0.48	0.15 Top
MMBT3904LT1XT1NCT-ND	TRANSISTOR G.P. NPN	Infineon	MMBT3904LT1	Q2	SOT23	MMBT3904LT1	0.13	0.017 Top