

CLOUD NETWORKING
REDWOOD
SWITCH BOARD
(BCM56960)

PCA NO. : 1395A2737101 (X01)
PCB NO. : 6050A2737101 (A01)
REV : 1.00
DATE : 2015/3/19

MODULE=---
FUNCTION=---

	8	7	6	5	4	3	2	1										
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FUNCTION=INDEX									SHEET 2 OF 124				MODEL,PROJECT,FUNCTION					
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				INVENTEC CONFIDENTIAL DO NOT COPY					PCB NUMBER 6050A2737101		REV XXX		SIZE B		DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01	
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D	61. QSFP28 CONNECTOR PORT 1										91. QSFP28 CONNECTOR PORT 31									
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	89. QSFP28 CONNECTOR PORT 29										119. P1V_ROV & P1V_SW									
	90. QSFP28 CONNECTOR PORT 30										120. P1V_ROV & P1V_SW									
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										ENG. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC,						
										SHEET 3 OF 124				MODEL,PROJECT,FUNCTION						
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												DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01						

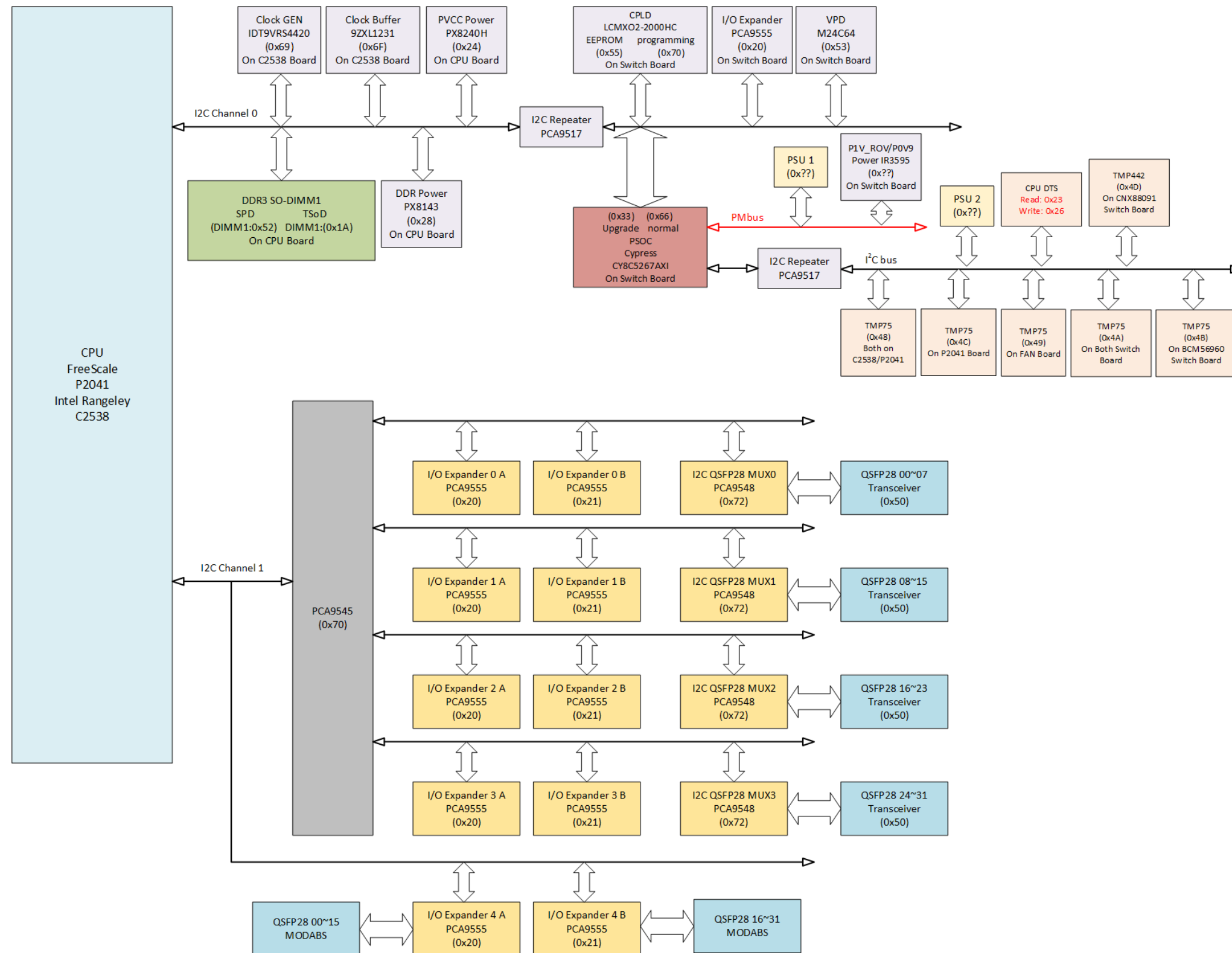
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D	121. P1V_ROV & P1V_SW															D											
	122. RESERVED																										
	123. RESERVED																										
	124. P12V																										
C																C											
B																B											
A																A											
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RESERVED															

[illegible][illegible][illegible][illegible]

I2C BLOCK DIAGRAM

All addresses are presented by 7bits

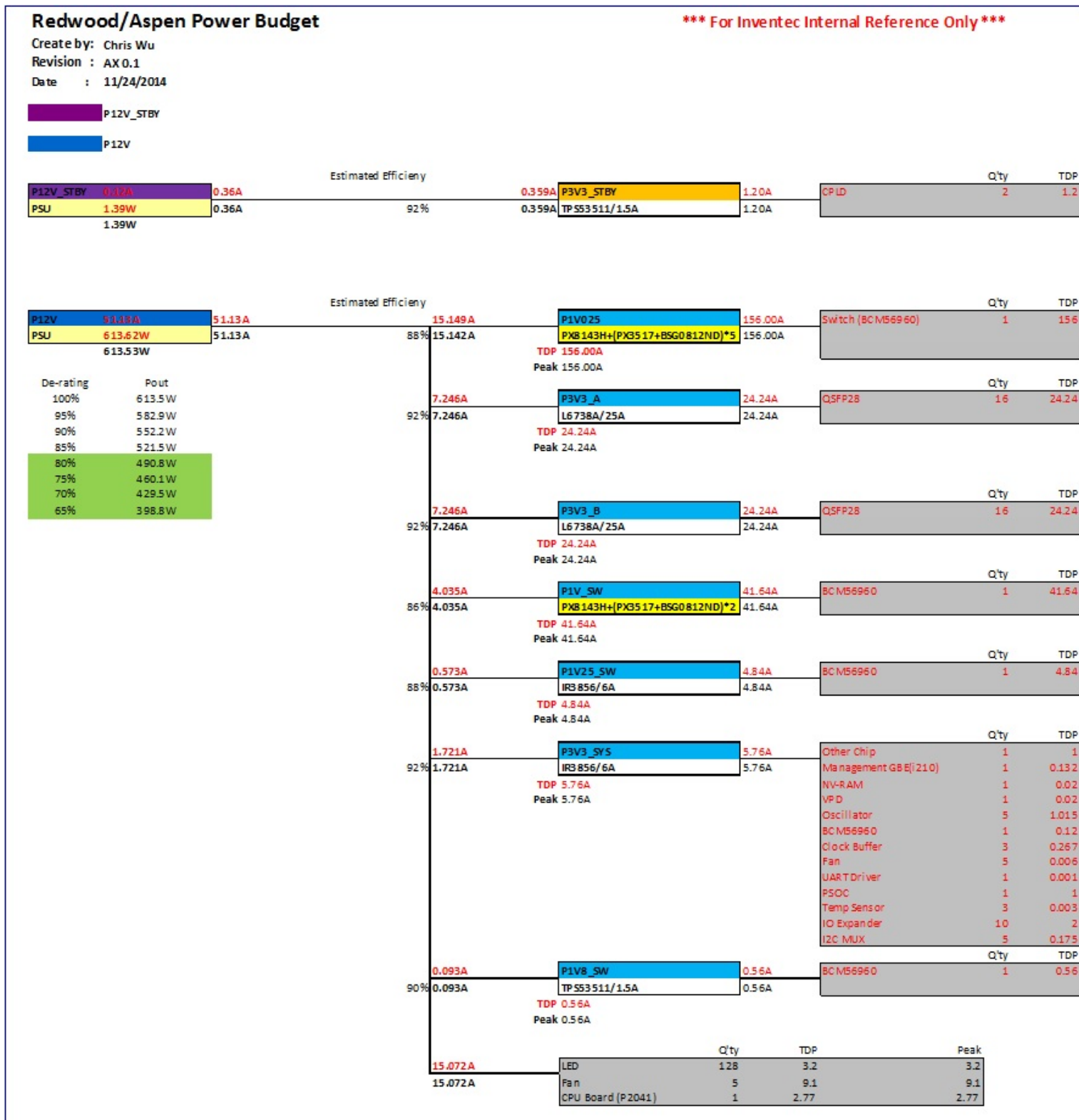


MODULE=HEADER
FUNCTION=BASEBOARD BLOCK DIAGRAM

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SHEET 7 OF 124						
Tue Mar 10 09:37:18 2015						
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01

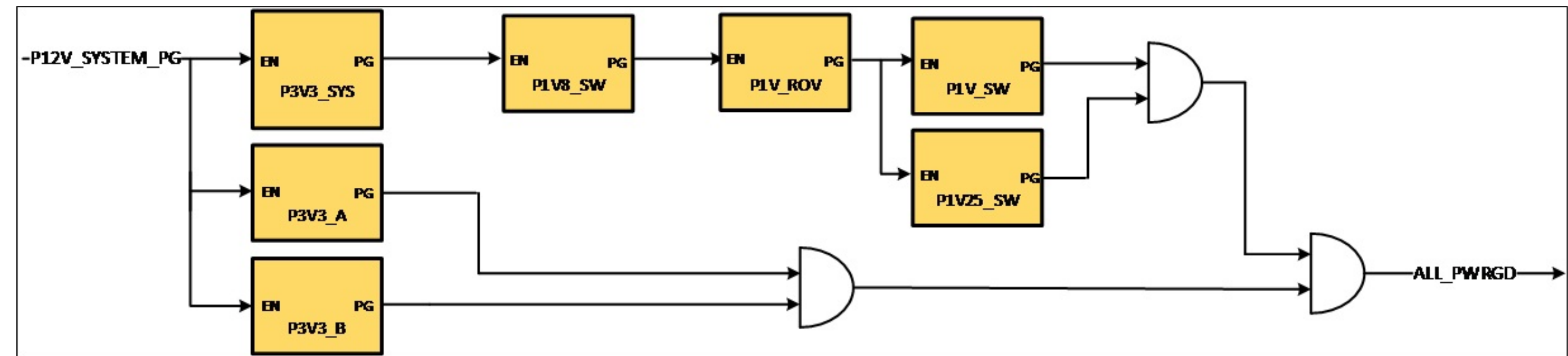
POWER DISTRIBUTION DIAGRAM (1/2)



POWER DISTRIBUTION DIAGRAM (2/2)

	Power Rail	VRD solution	Power up Sequence	Level	VRD type	Estiamted Eff (%)	Input Voltage (V)	Estaimated Input current (A)	Estaimated Input power (W)	Output (V)	Output current (A)	Output Power (W)	VRD power loss (W)	Schematic Page
	Switch Board (BCM)													
20	P3V3_STBY	TPS53511/1.5A		0	SW	92%	12.0	0.36	4.30	3.30	1.20	3.96	0.34	
21	P1V025	PX8143H+(PX3517+BSG0812ND)*5		0	SW	88%	12.0	15.14	181.70	1.03	156.00	159.90	21.80	
22	P3V3_A	L6738A/25A		0	SW	92%	12.0	7.25	86.95	3.30	24.24	79.99	6.96	
23	P3V3_B	L6738A/25A		0	SW	92%	12.0	7.25	86.95	3.30	24.24	79.99	6.96	
24	P1V_SW	PX8143H+(PX3517+BSG0812ND)*2		0	SW	86%	12.0	4.03	48.42	1.00	41.64	41.64	6.78	
25	P1V25_SW	IR3856/6A		0	SW	88%	12.0	0.57	6.88	1.25	4.84	6.05	0.83	
26	P3V3_SYS	IR3856/6A		0	SW	92%	12.0	1.72	20.66	3.30	5.76	19.00	1.65	
27	P1V8_SW	TPS53511/1.5A		0	SW	90%	12.0	0.09	1.12	1.80	0.56	1.01	0.11	

POWER SEQUENCE

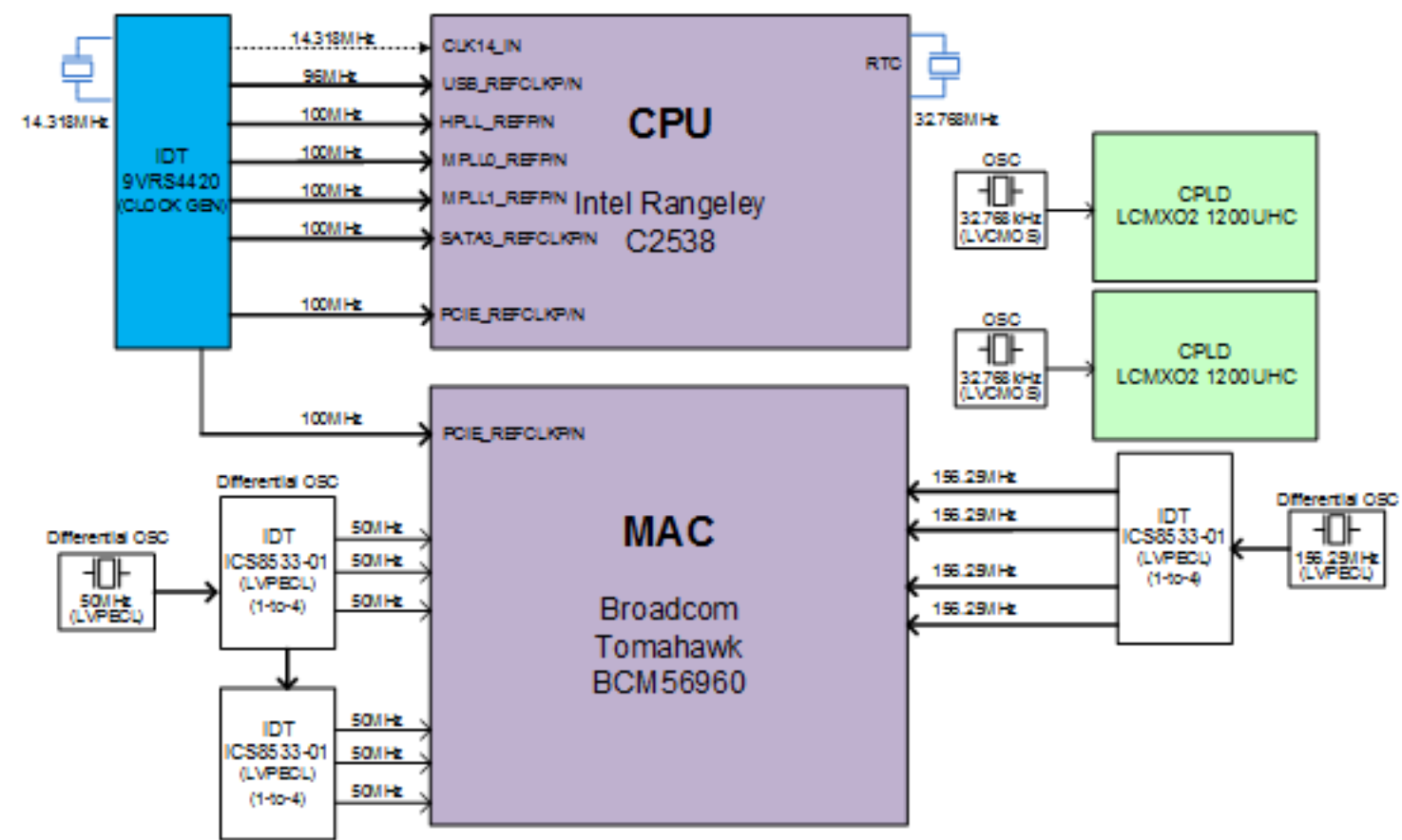


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FUNCTION=POWER SEQUENCE

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SHEET 10 OF 124						
Tue Mar 10 09:37:18 2015						
PCB NUMBER 6050A2737101		REV XXX		SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

CLOCK TOPOLOGY

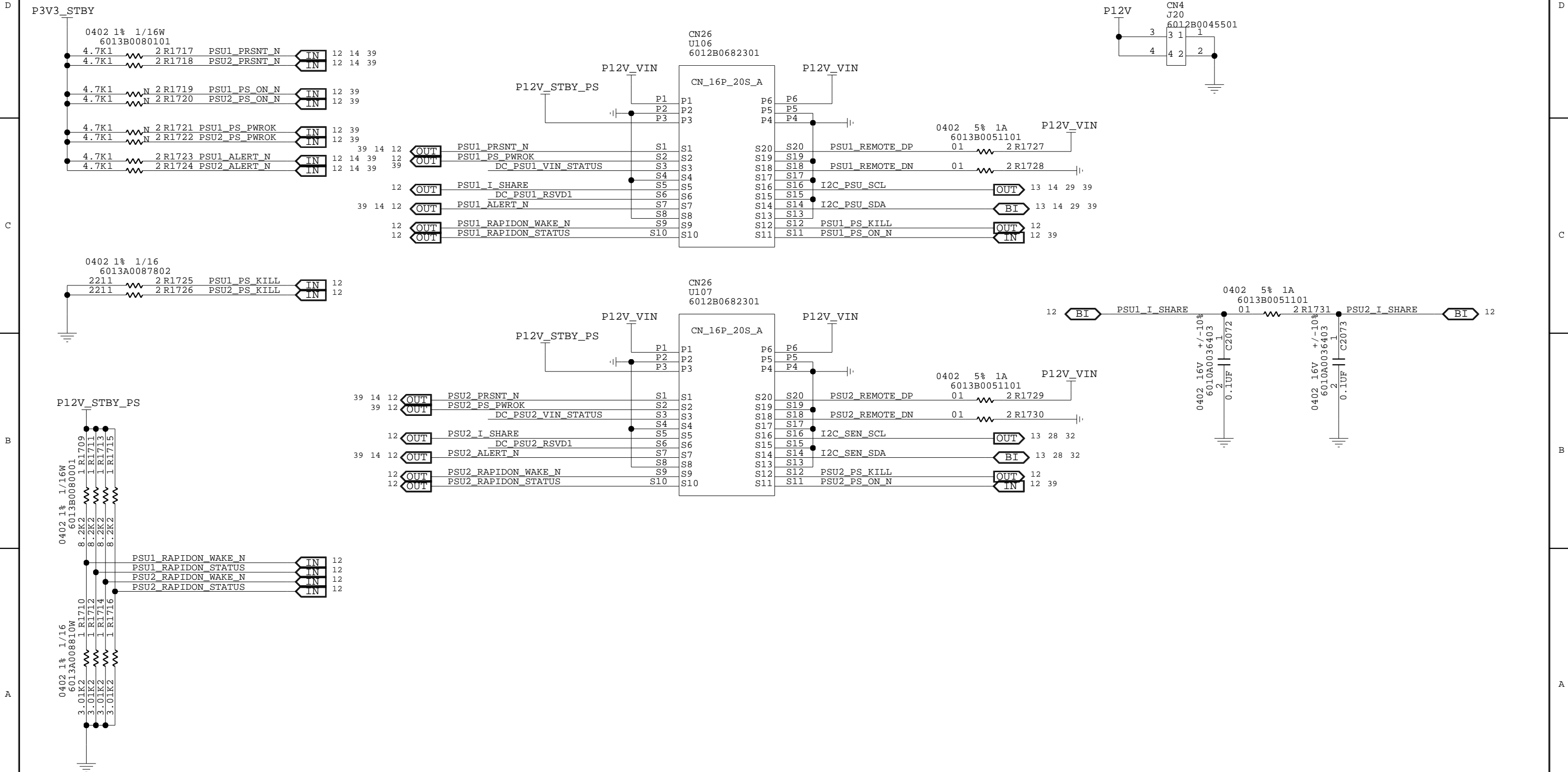


MODULE=HEADER
FUNCTION=RESET/POWER TOPOLOGY

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ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,			
SHEET 11	OF 124	MODEL, PROJECT, FUNCTION			
Tue Mar 10 09:37:18 2015					
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

PSU CONN

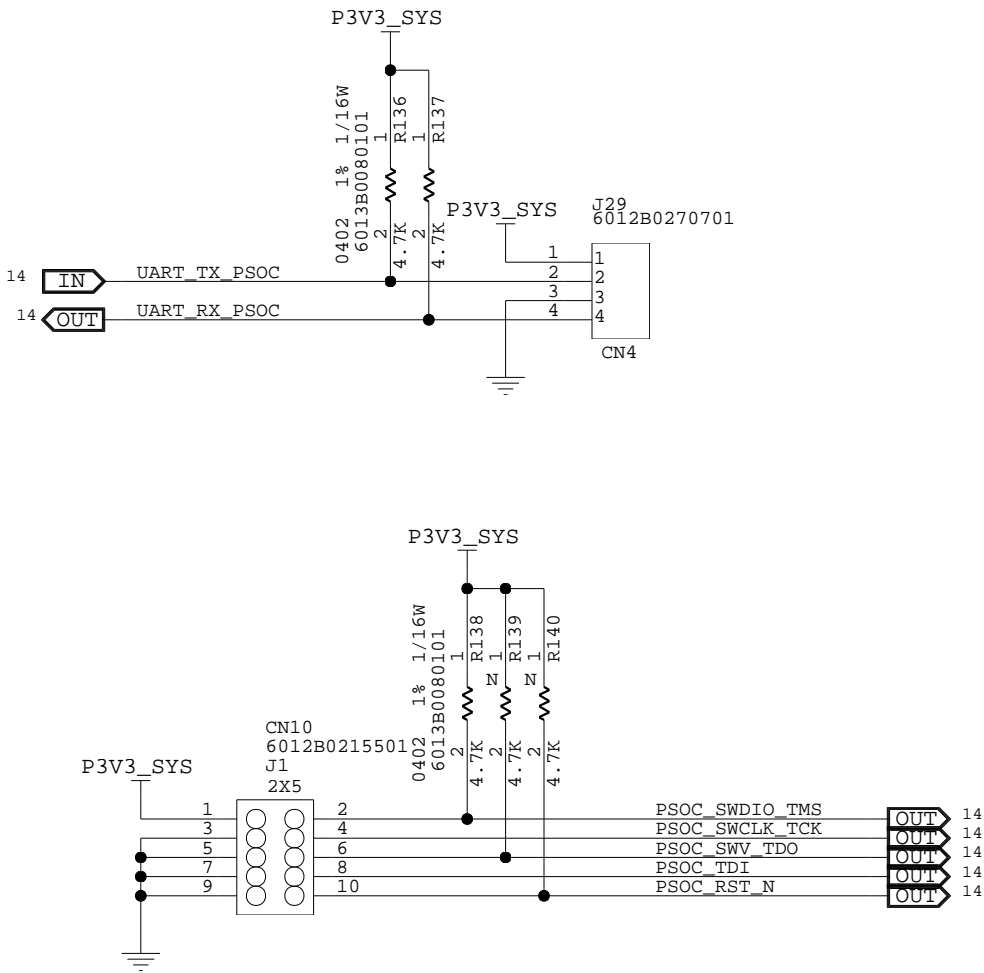


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PSOC PROG & UART HEADER (2 OF 2)



MODULE=PSOC
FUNCTION=

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ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC , MODEL , PROJECT , FUNCTION				
SHEET 15 OF 124						
Tue Mar 10 09:39:37 2015						

D



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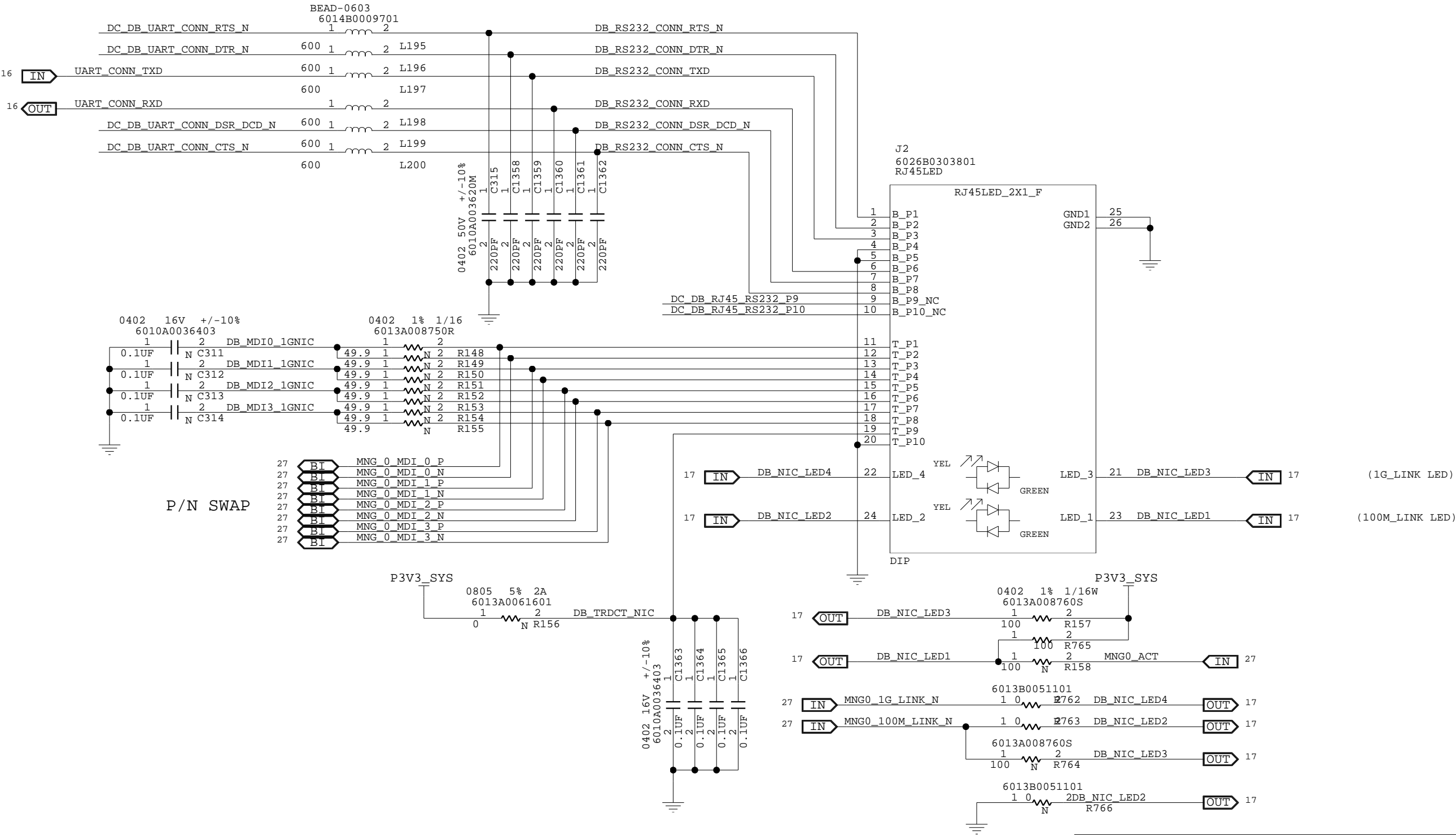
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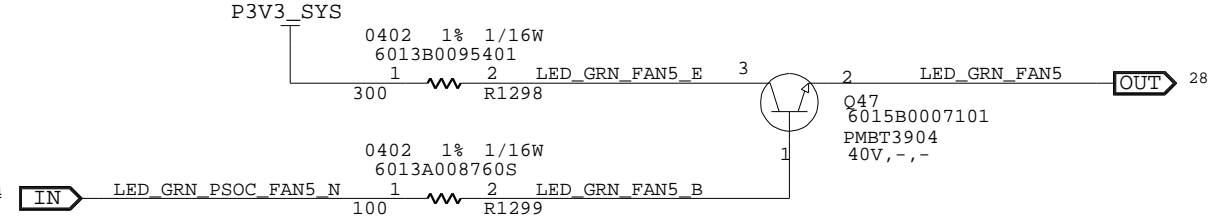
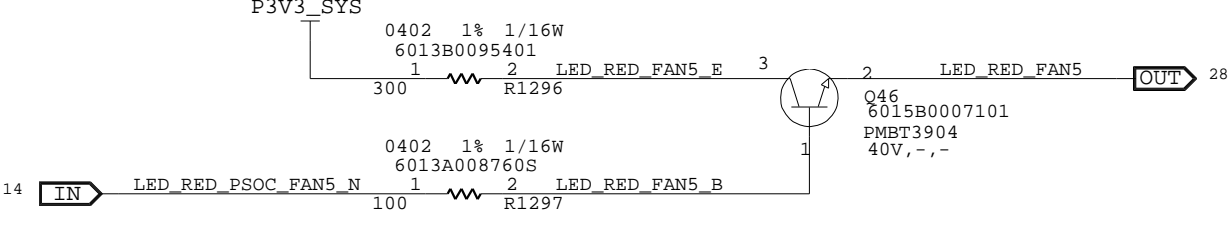
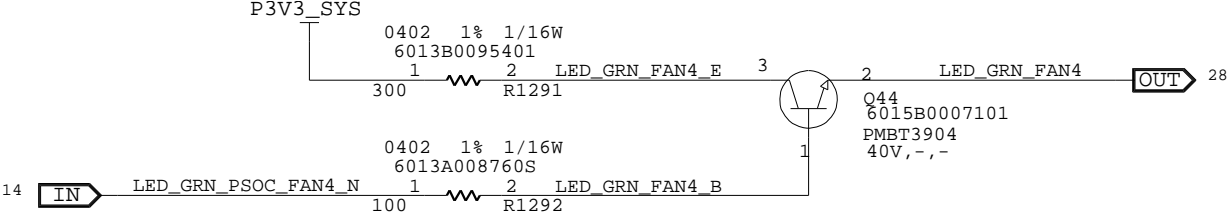
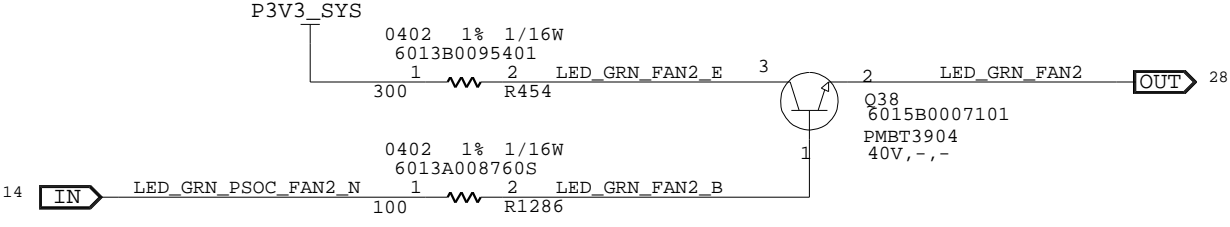
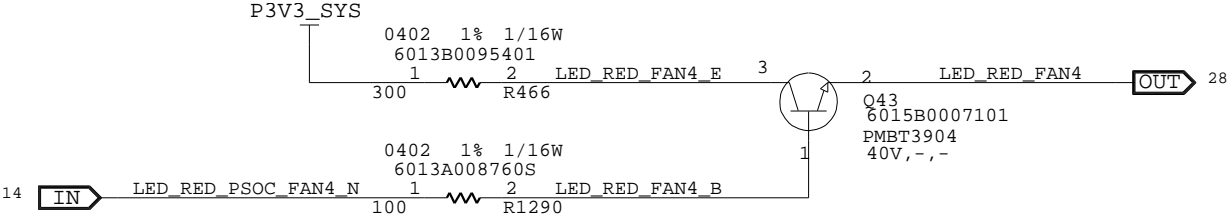
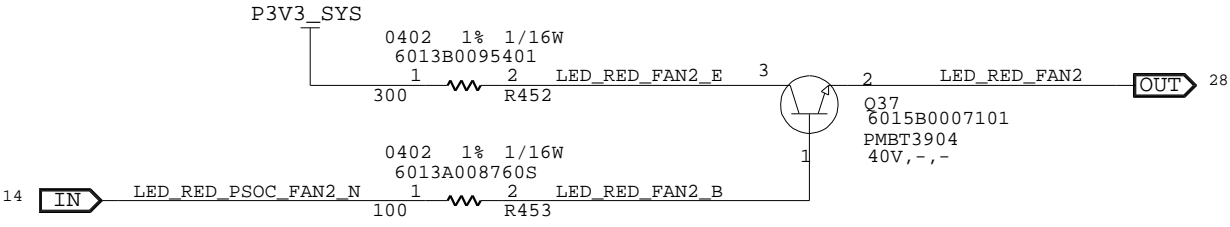
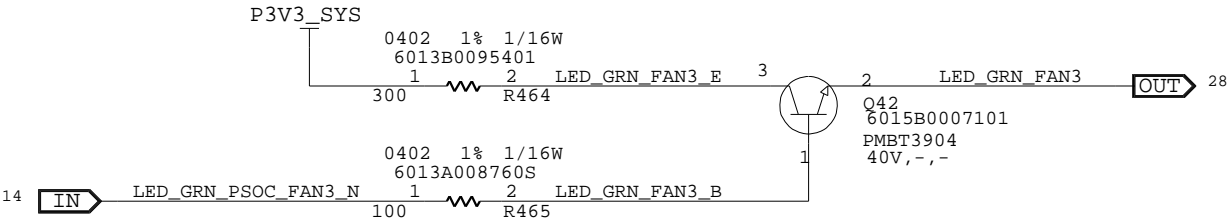
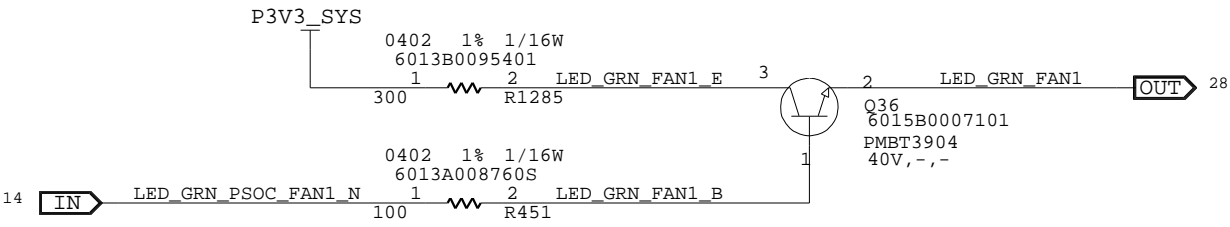
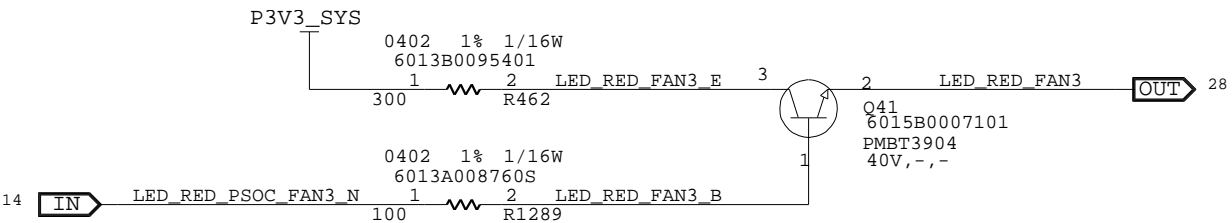
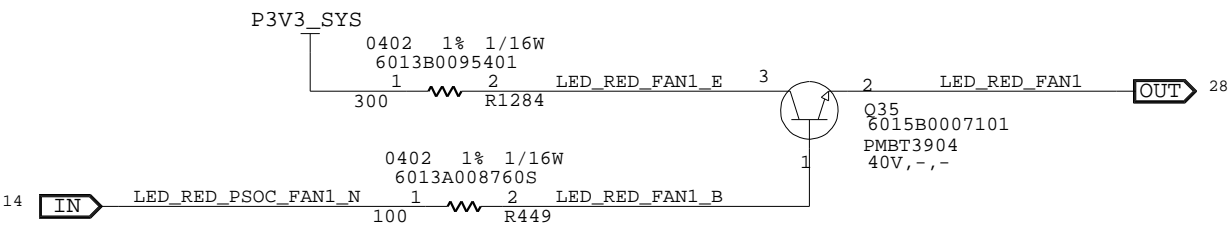
MGMT & CONSOLE PORT



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		SHEET 17 OF 124				
		Tue Mar 10 09:39:38 2015				
		PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

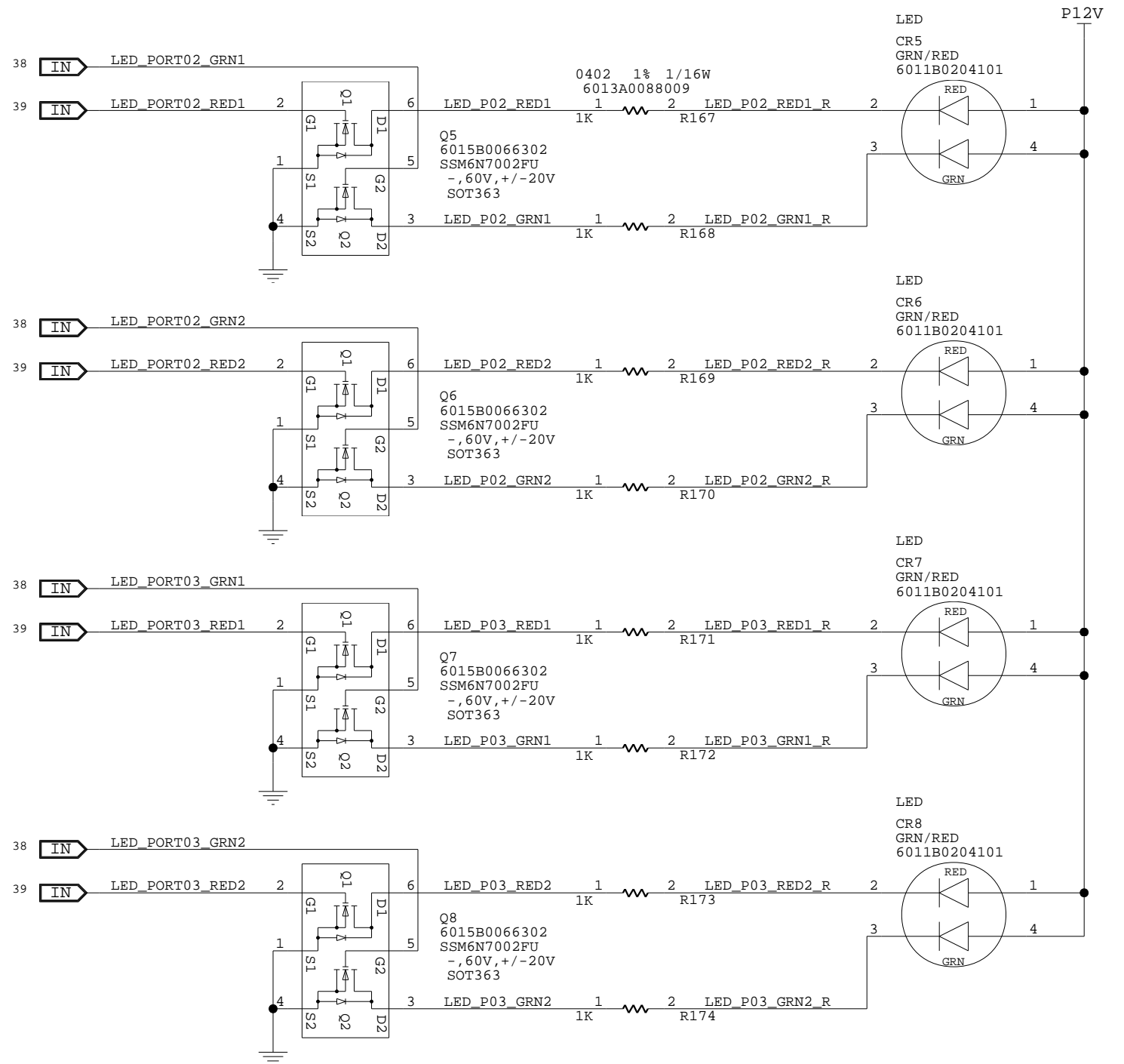
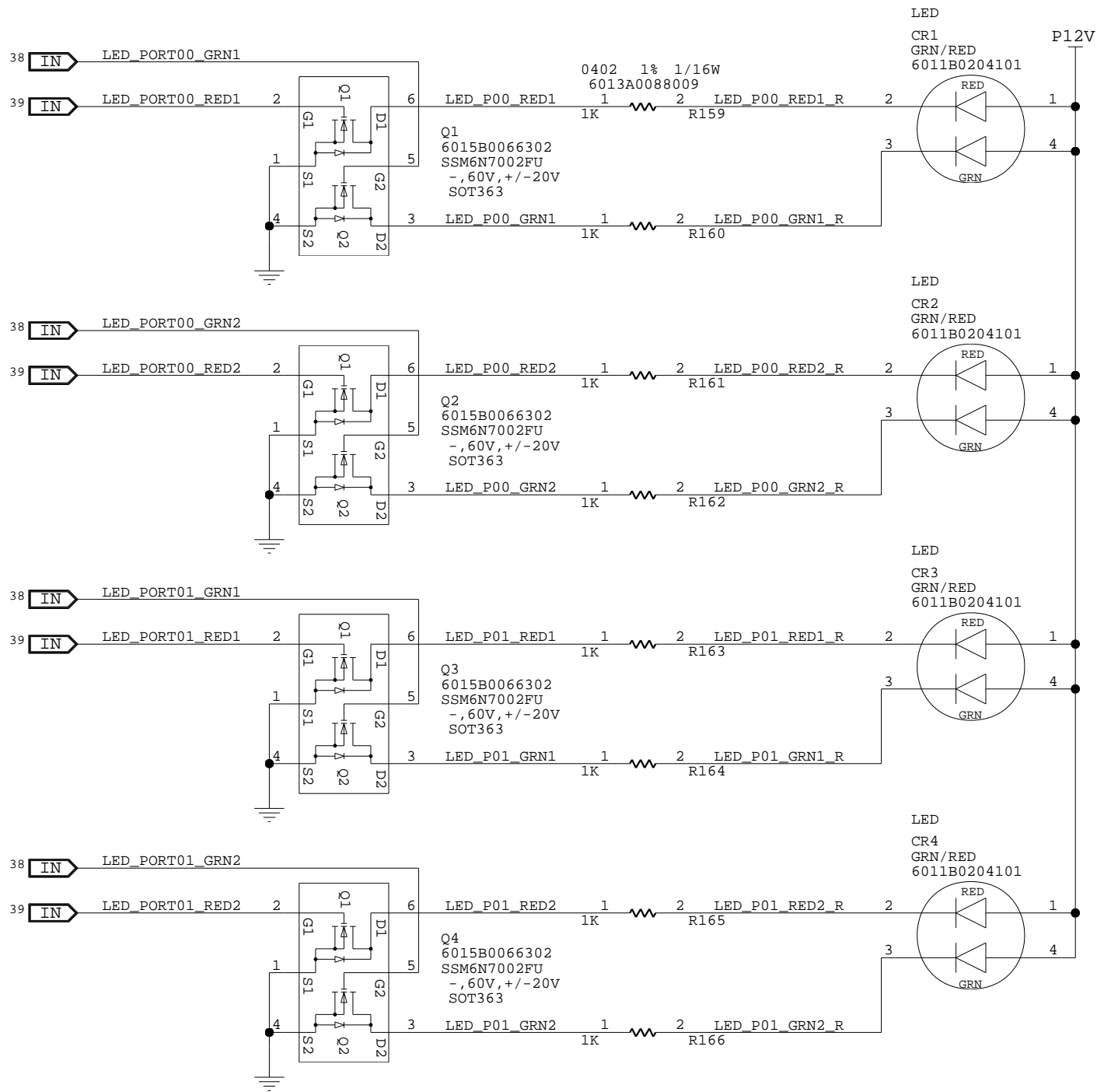
FAN CONNECTOR LED



MODULE=FAN
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INVENTEC CONFIDENTIAL DO NOT COPY	PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01
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QSFP28 LED (PORT 00~03)
AT BOTTOM SIDE



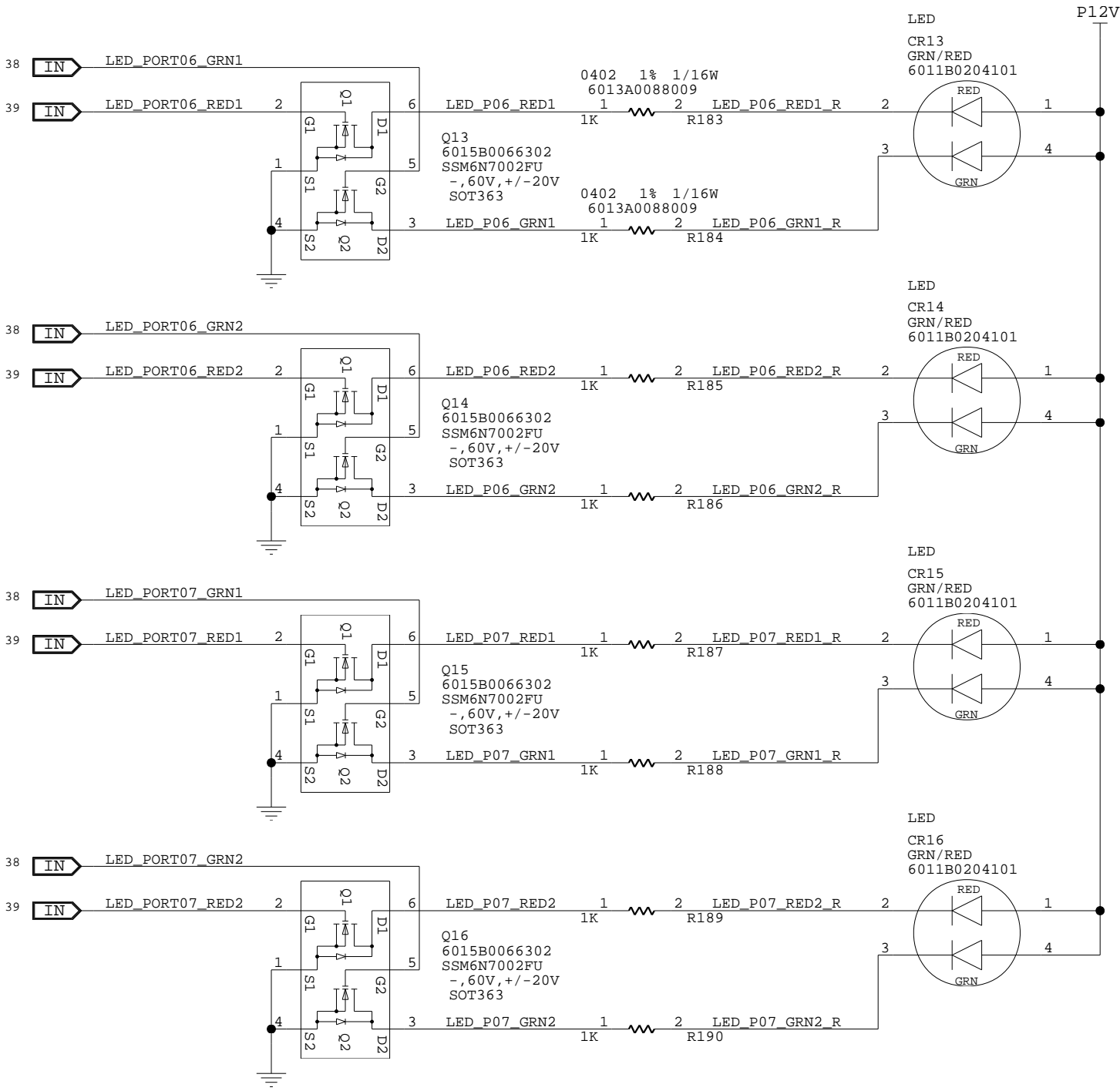
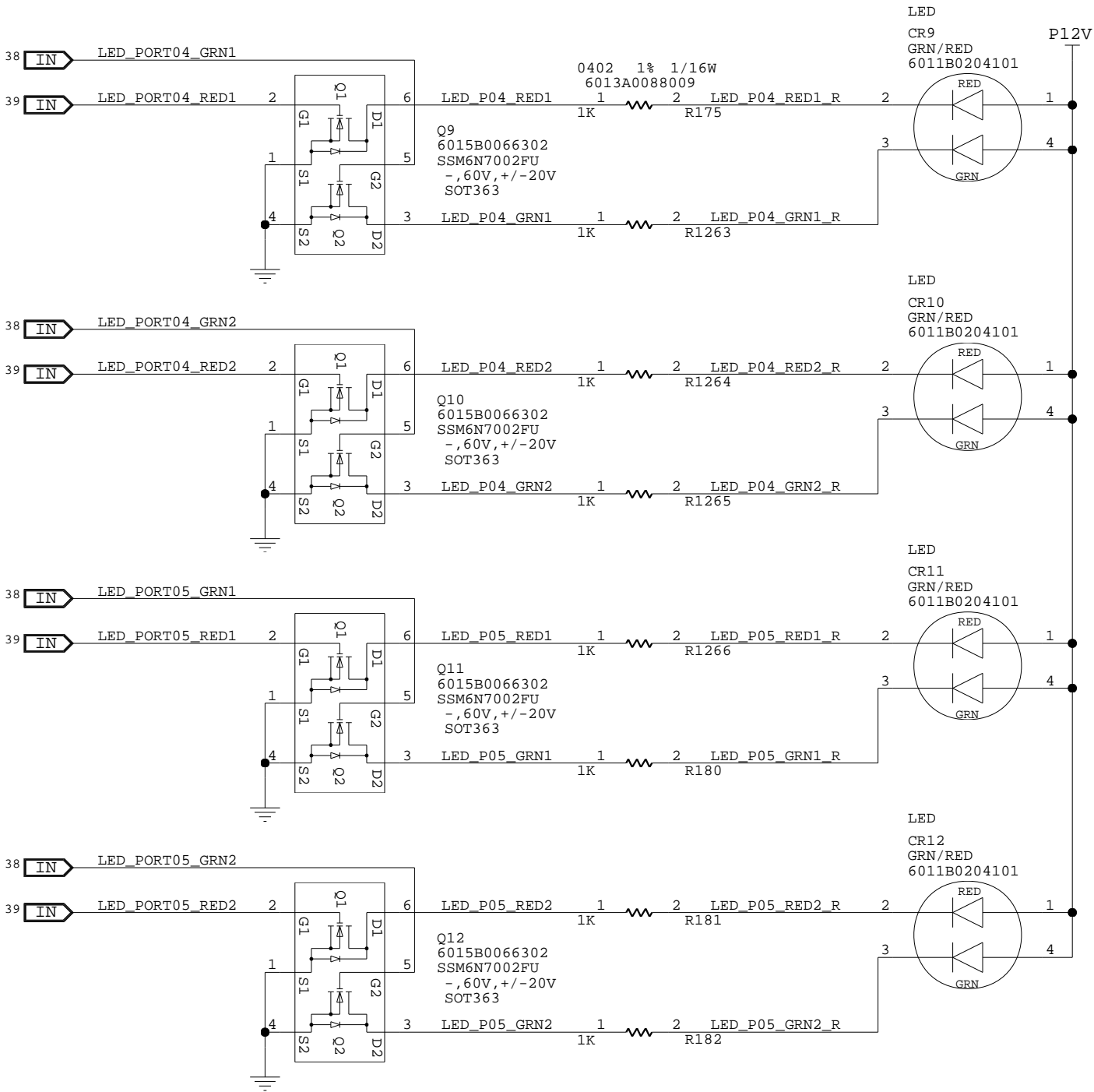
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SHEET 19 OF 124	Tue Mar 10 09:39:38 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

QSFP28 LED (PORT 04~07)

AT BOTTOM SIDE



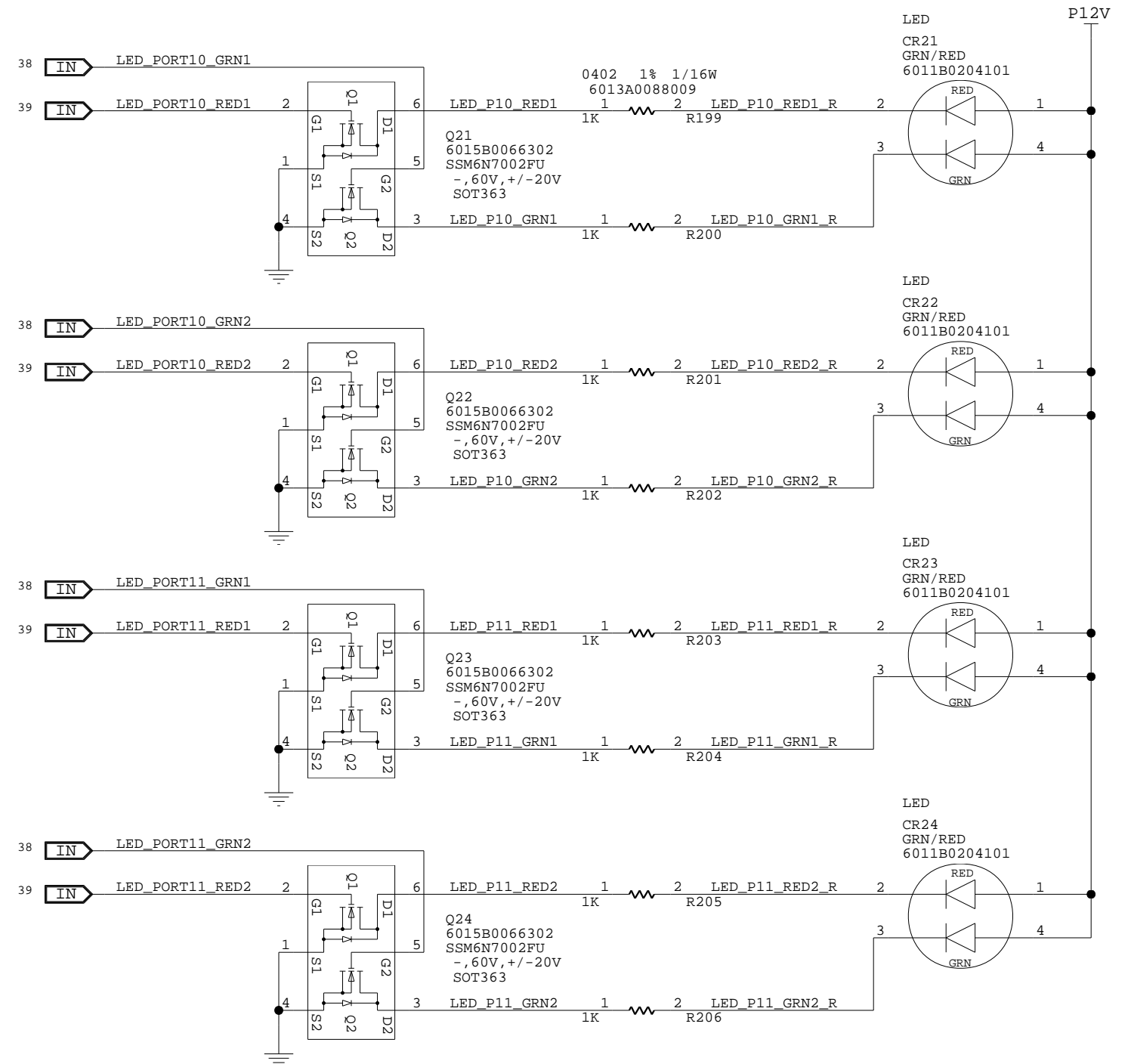
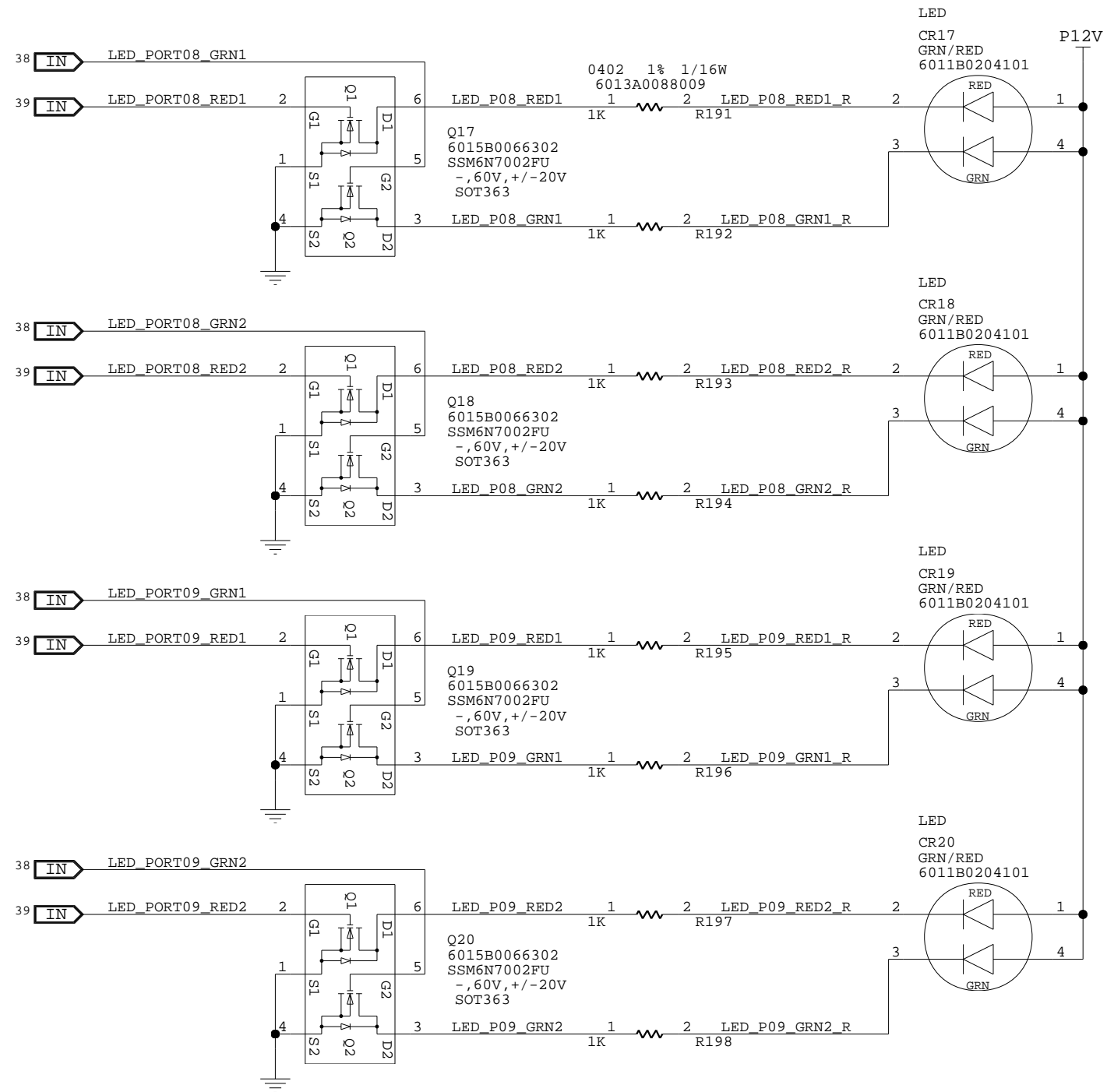
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ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 20 OF 124	Tue Mar 10 09:39:45 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

QSFP28 LED (PORT 08~11)

AT BOTTOM SIDE



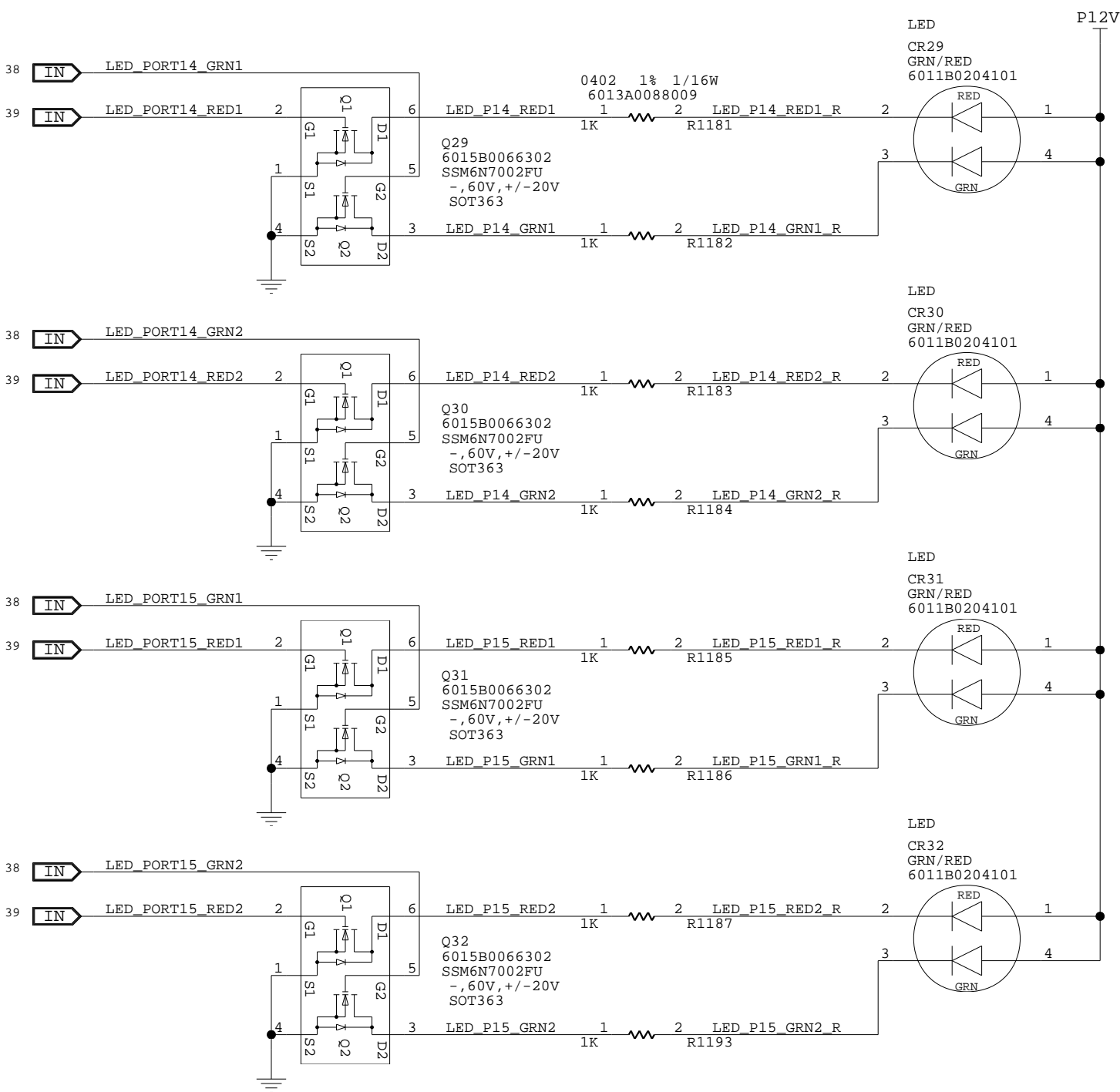
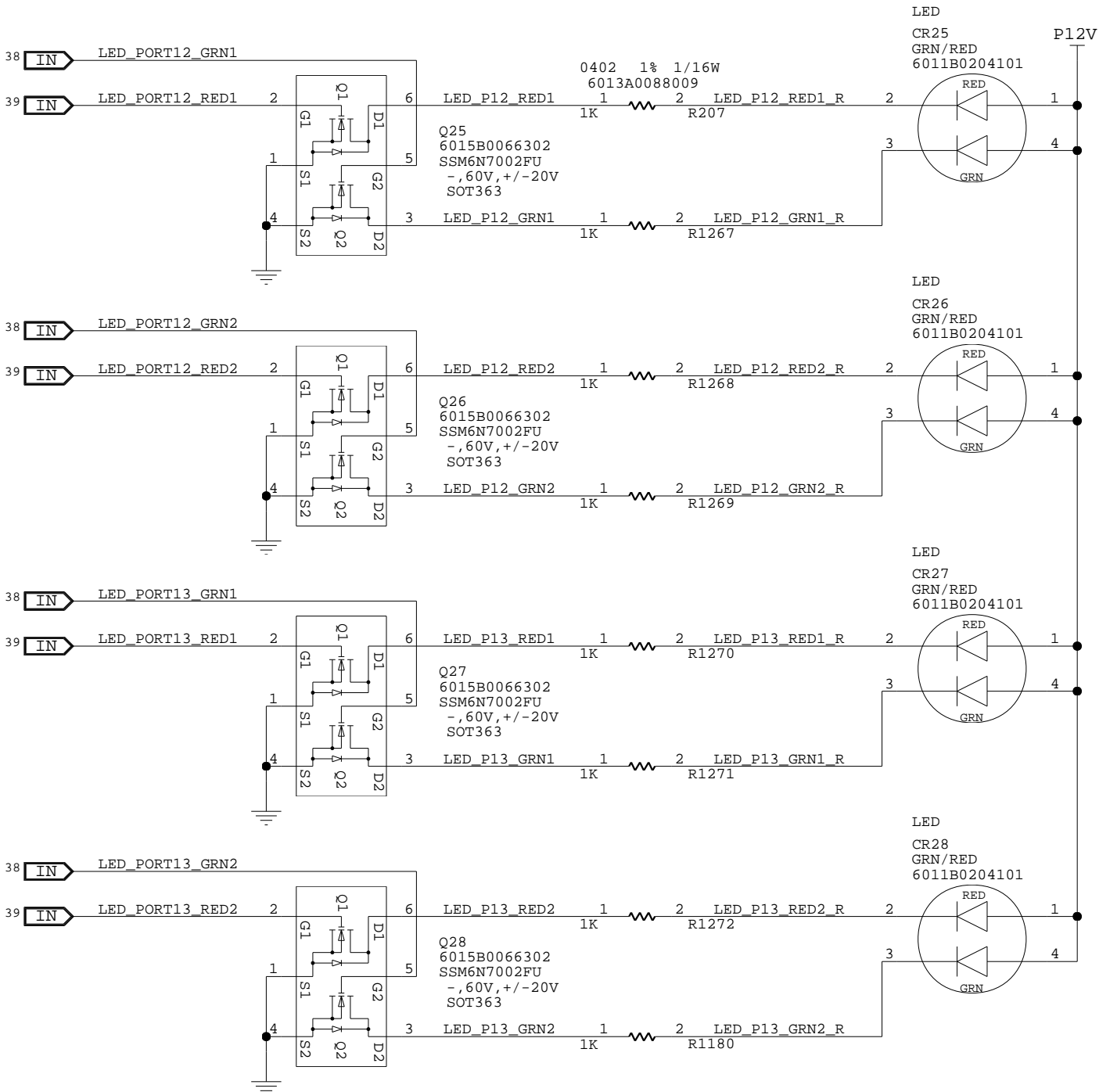
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Tue Mar 10 09:39:45 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

MODULE=QSFP28

FUNCTION=

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QSFP28 LED (PORT 12~15)
AT BOTTOM SIDE

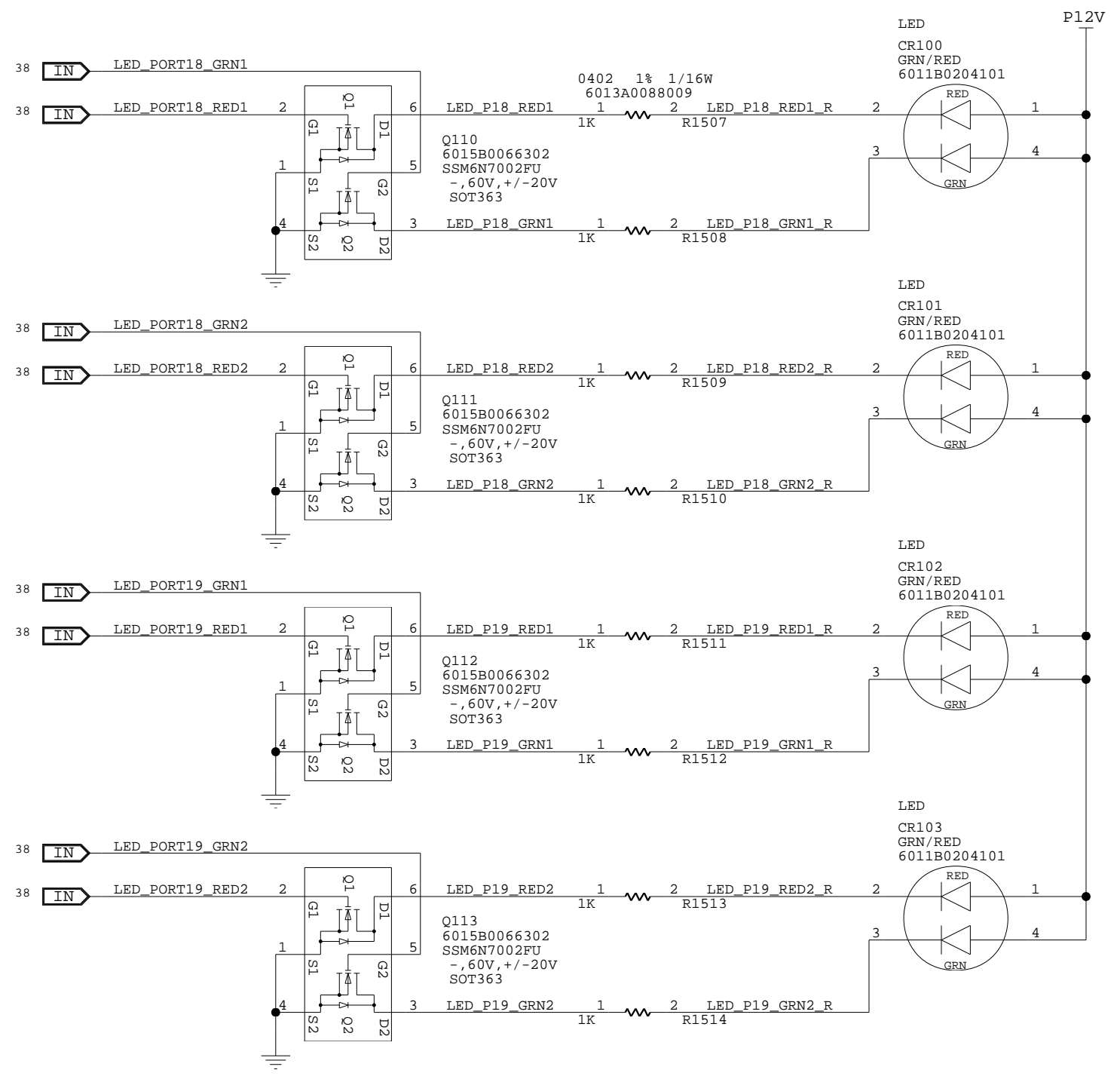
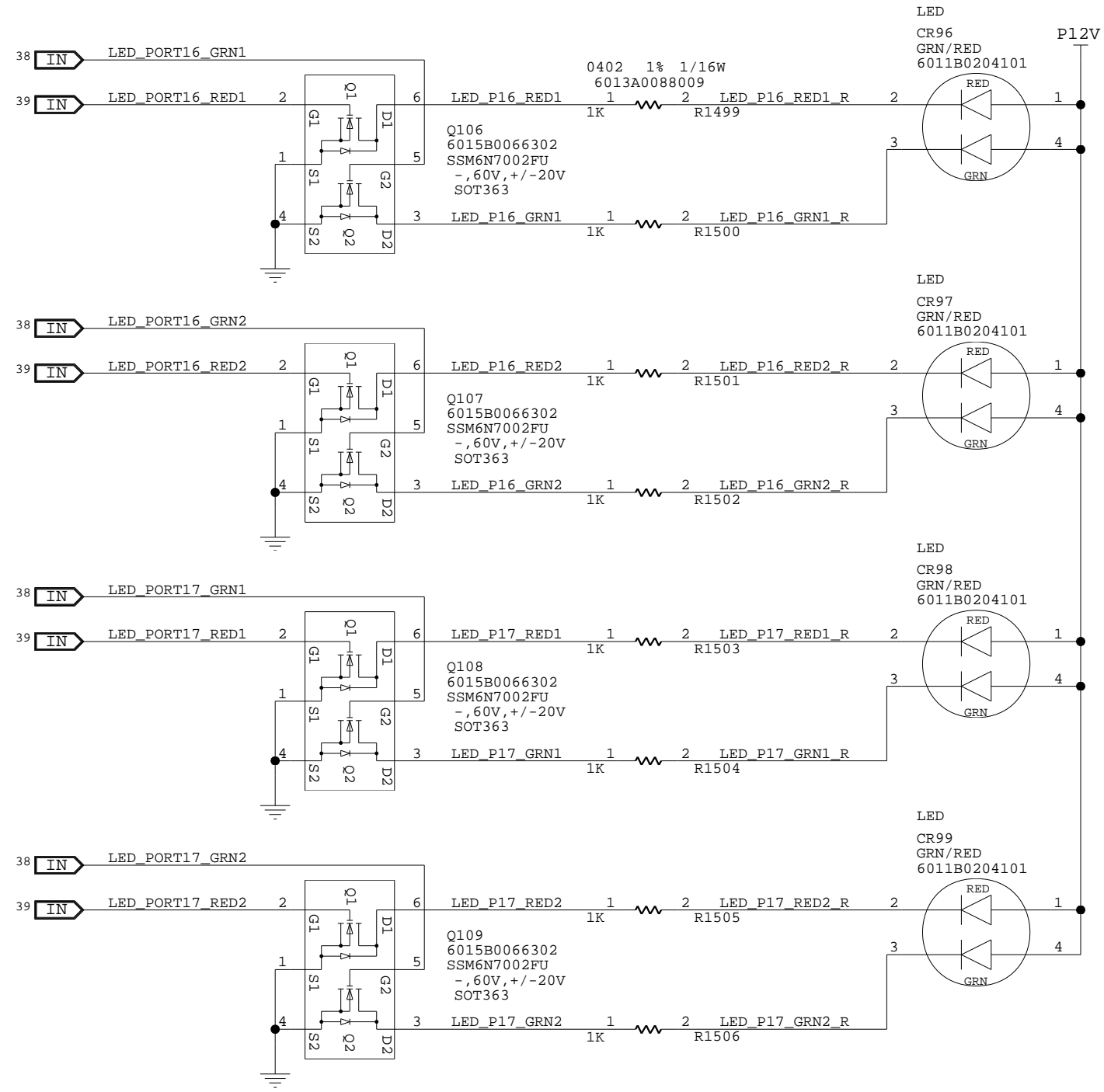


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ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
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PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 LED (PORT 16~19)
AT BOTTOM SIDE



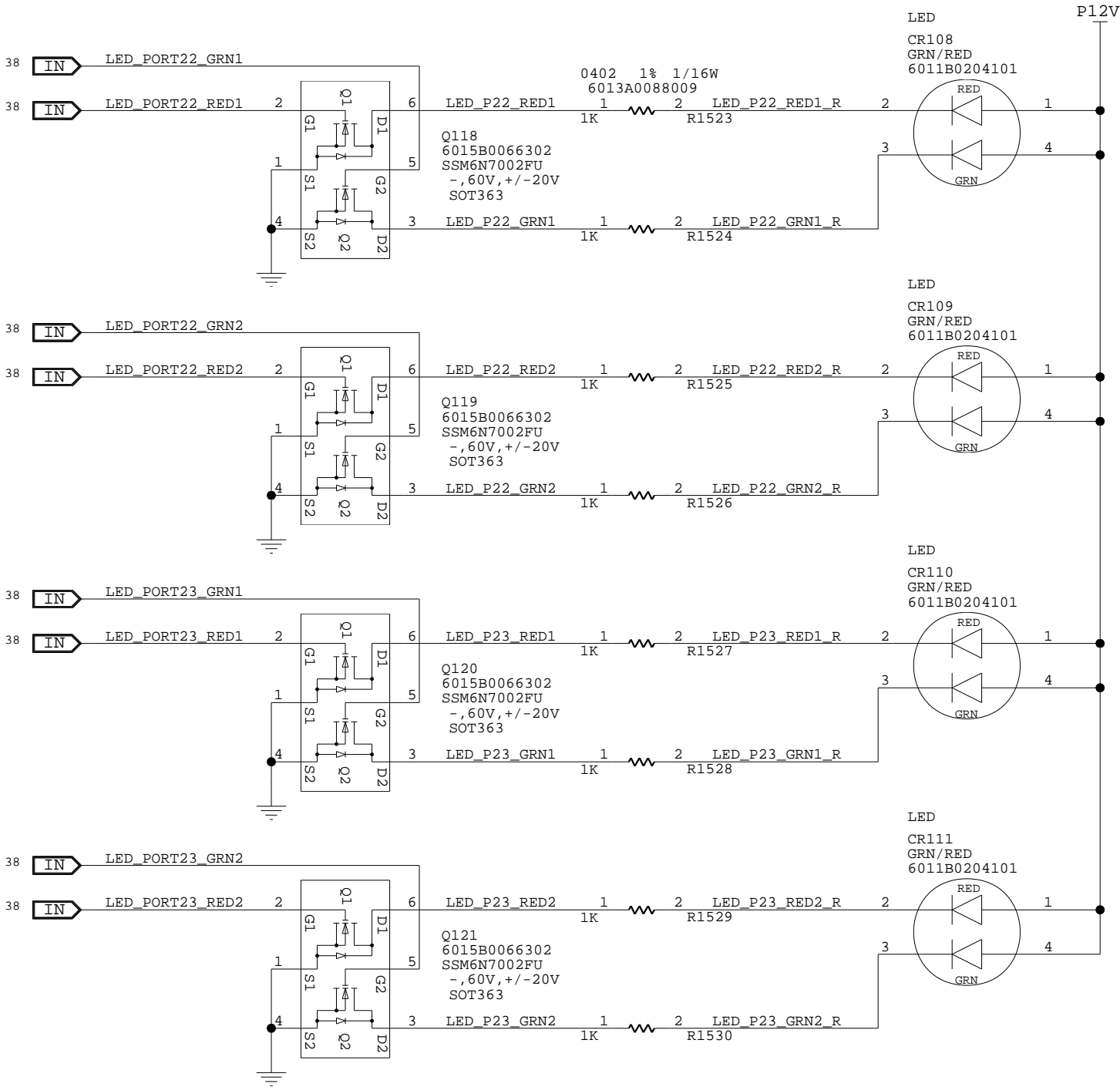
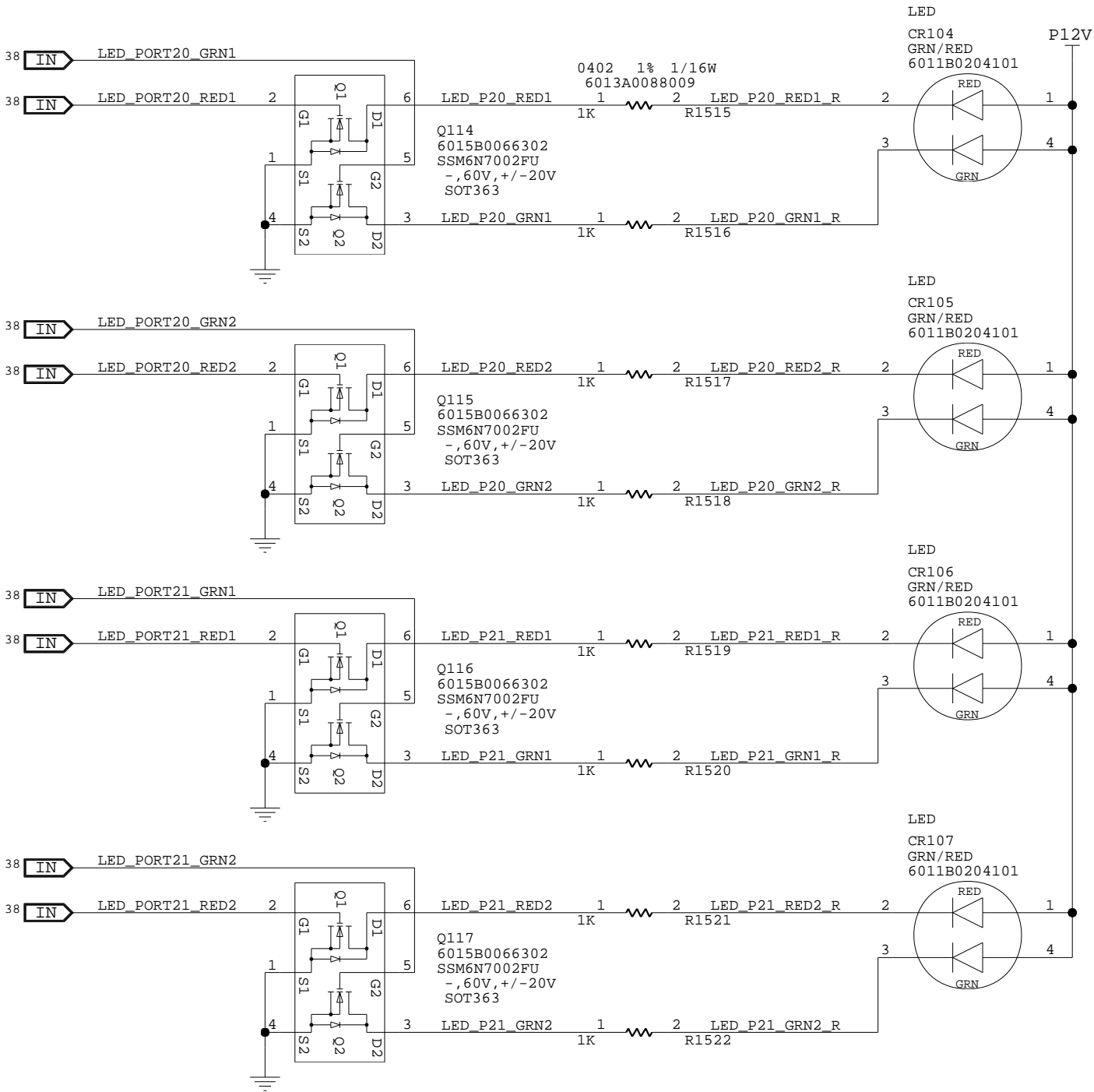
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PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 LED (PORT 20~23)

AT BOTTOM SIDE



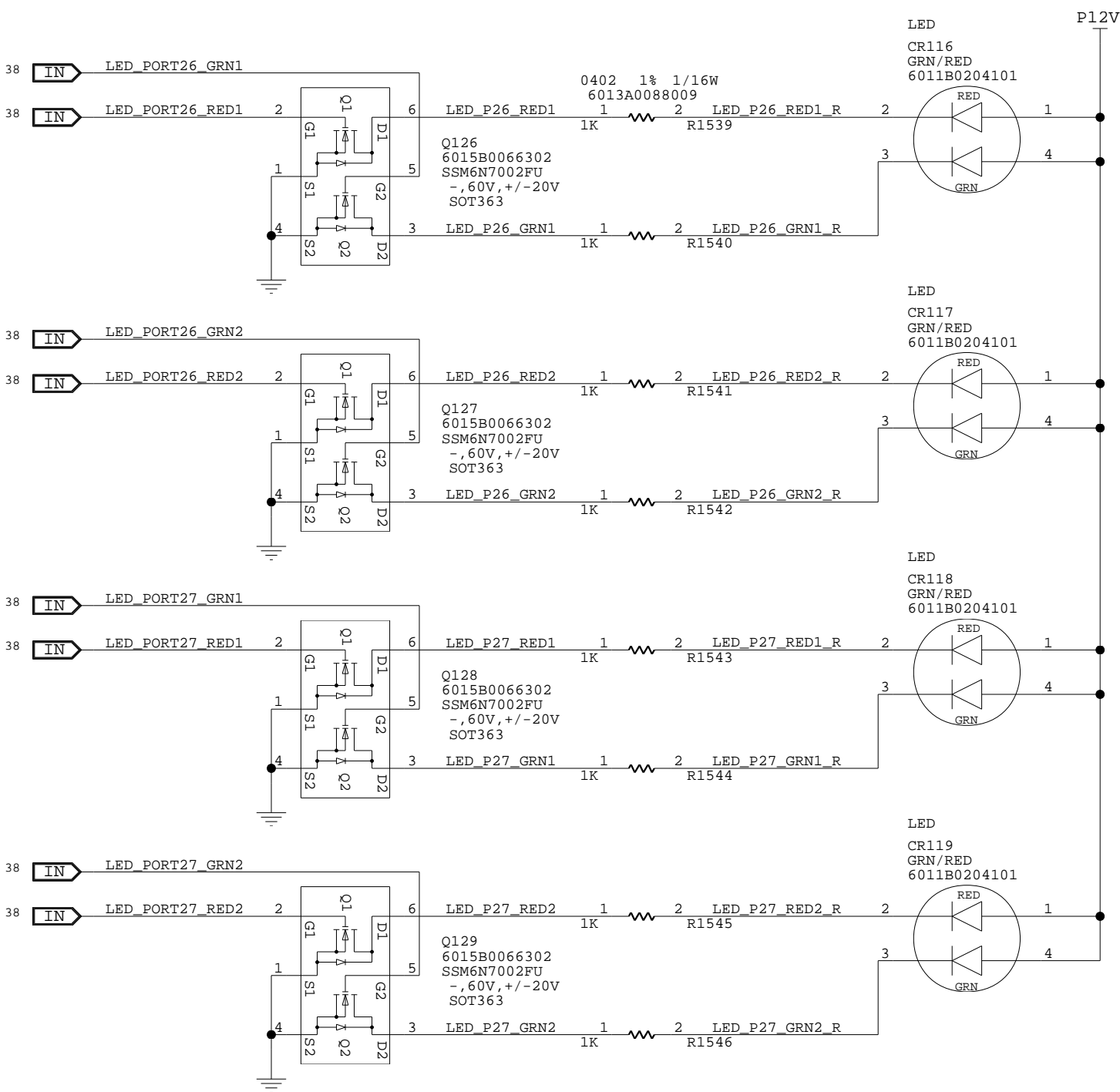
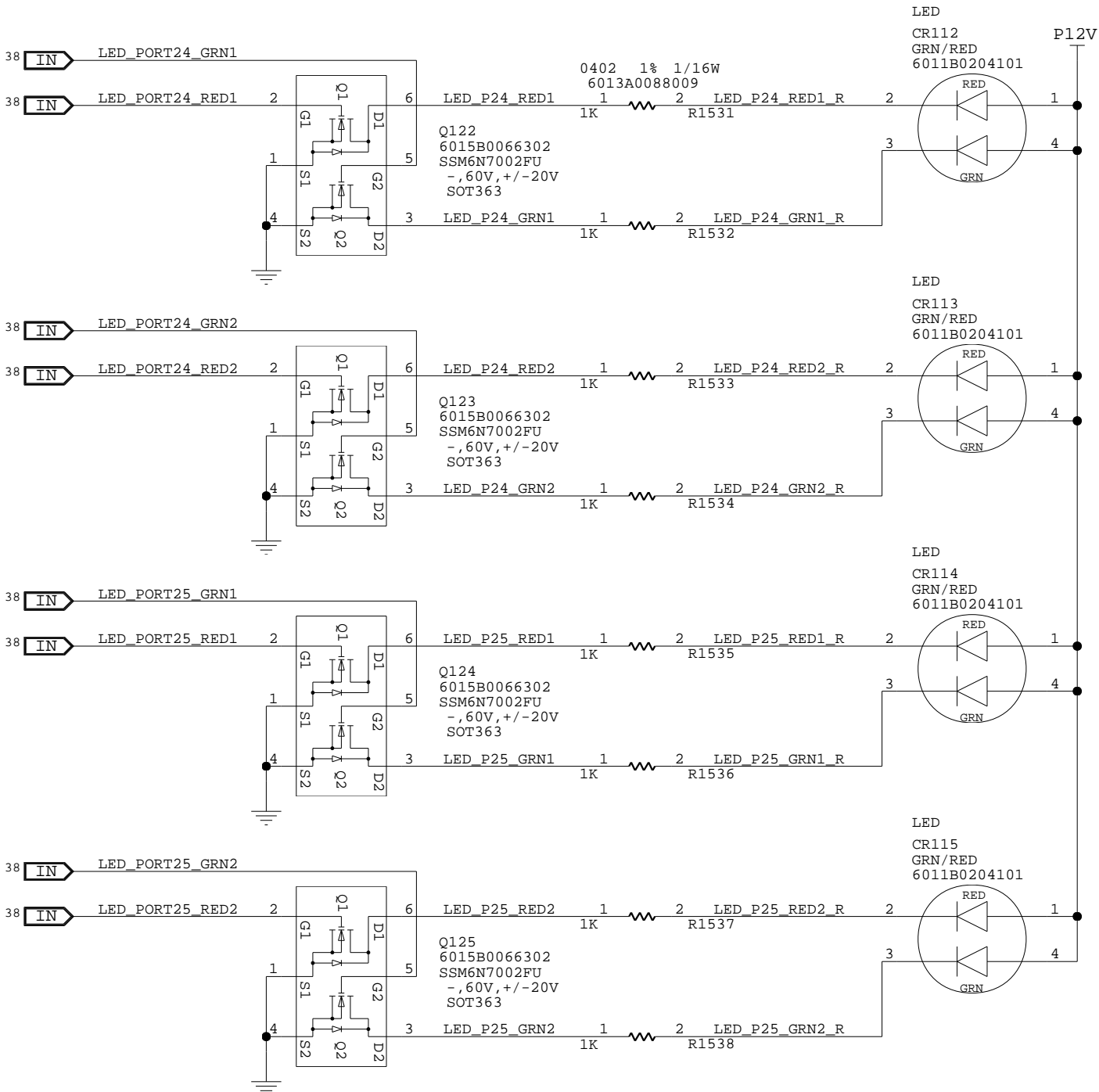
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ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 24 OF 124	Tue Mar 10 09:39:46 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

QSFP28 LED (PORT 24~27)

AT BOTTOM SIDE

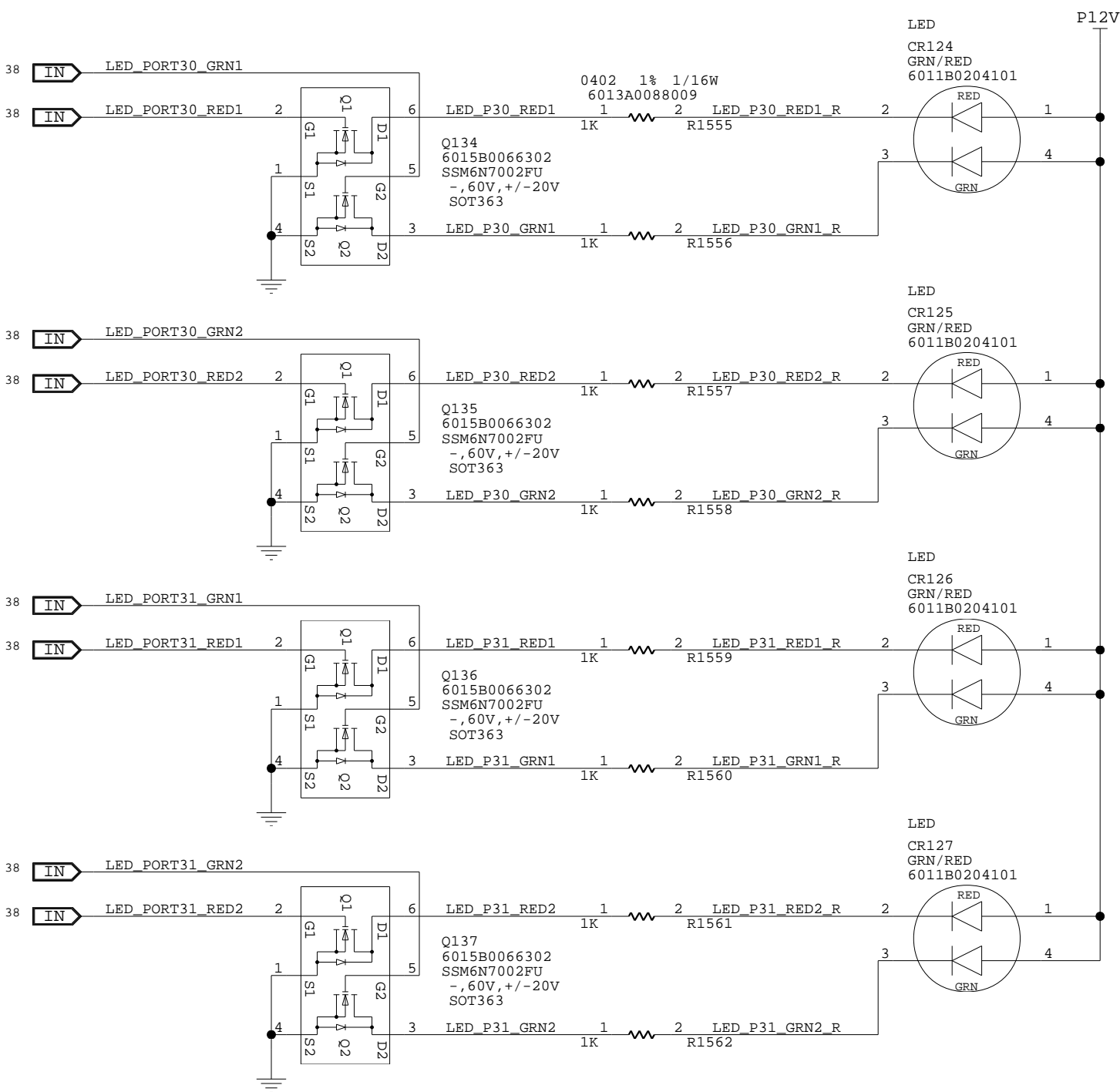
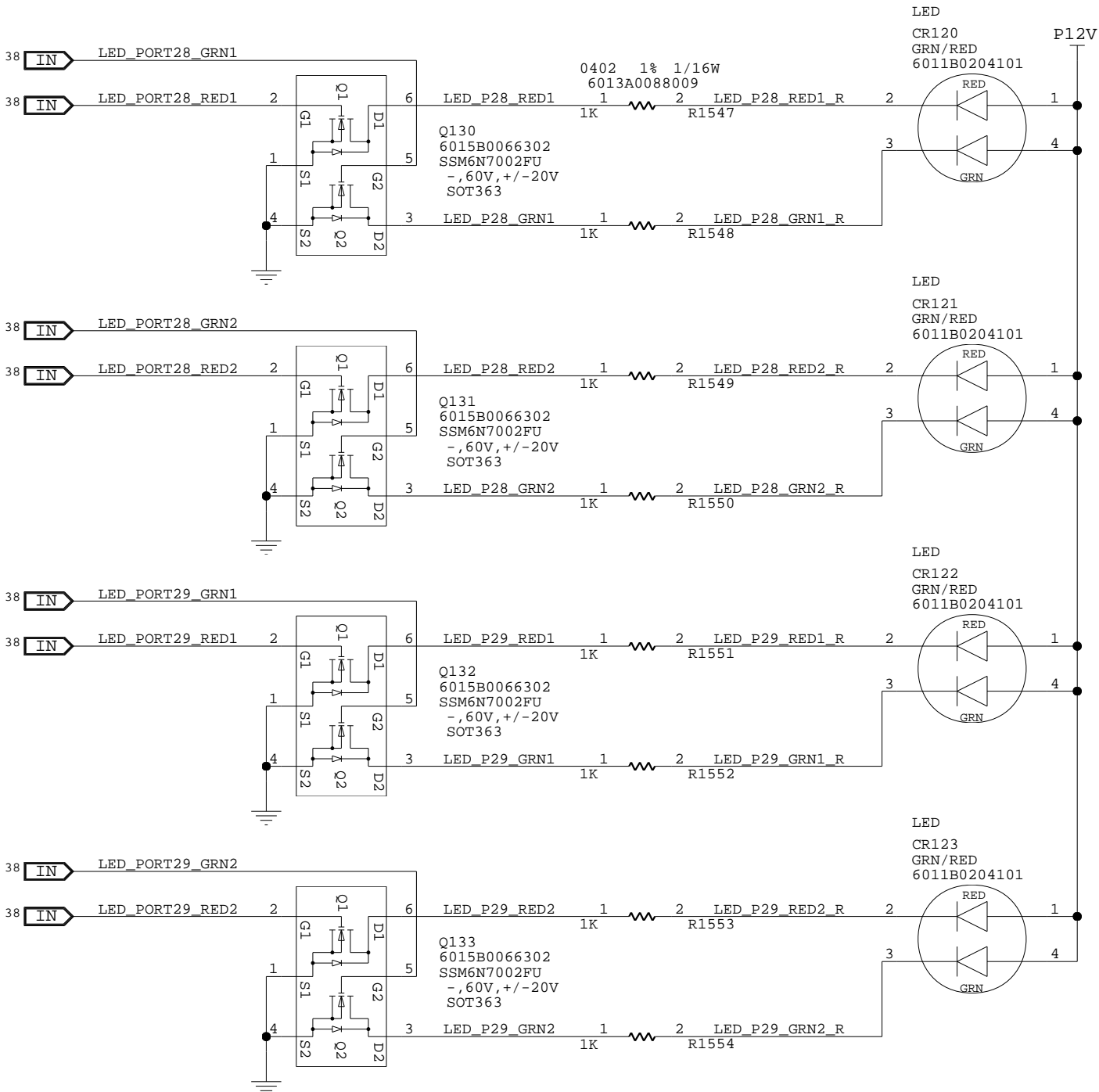


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SHEET 25 OF 124	Tue Mar 10 09:39:46 2015			
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 LED (PORT 28~31)
AT BOTTOM SIDE



MODULE=QSFP28
FUNCTION=

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
SHEET 26 OF 124	Tue Mar 10 09:39:46 2015			
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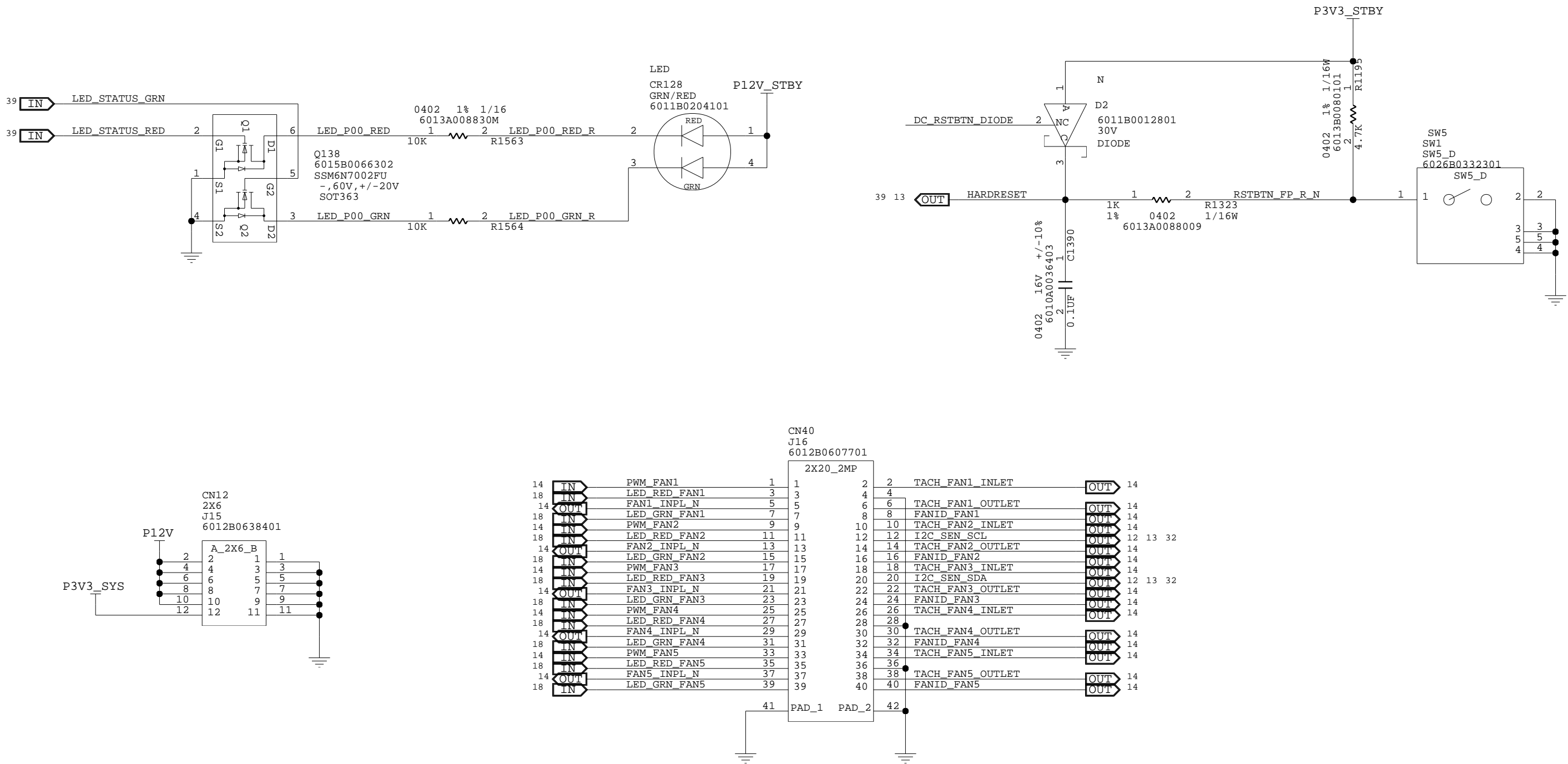
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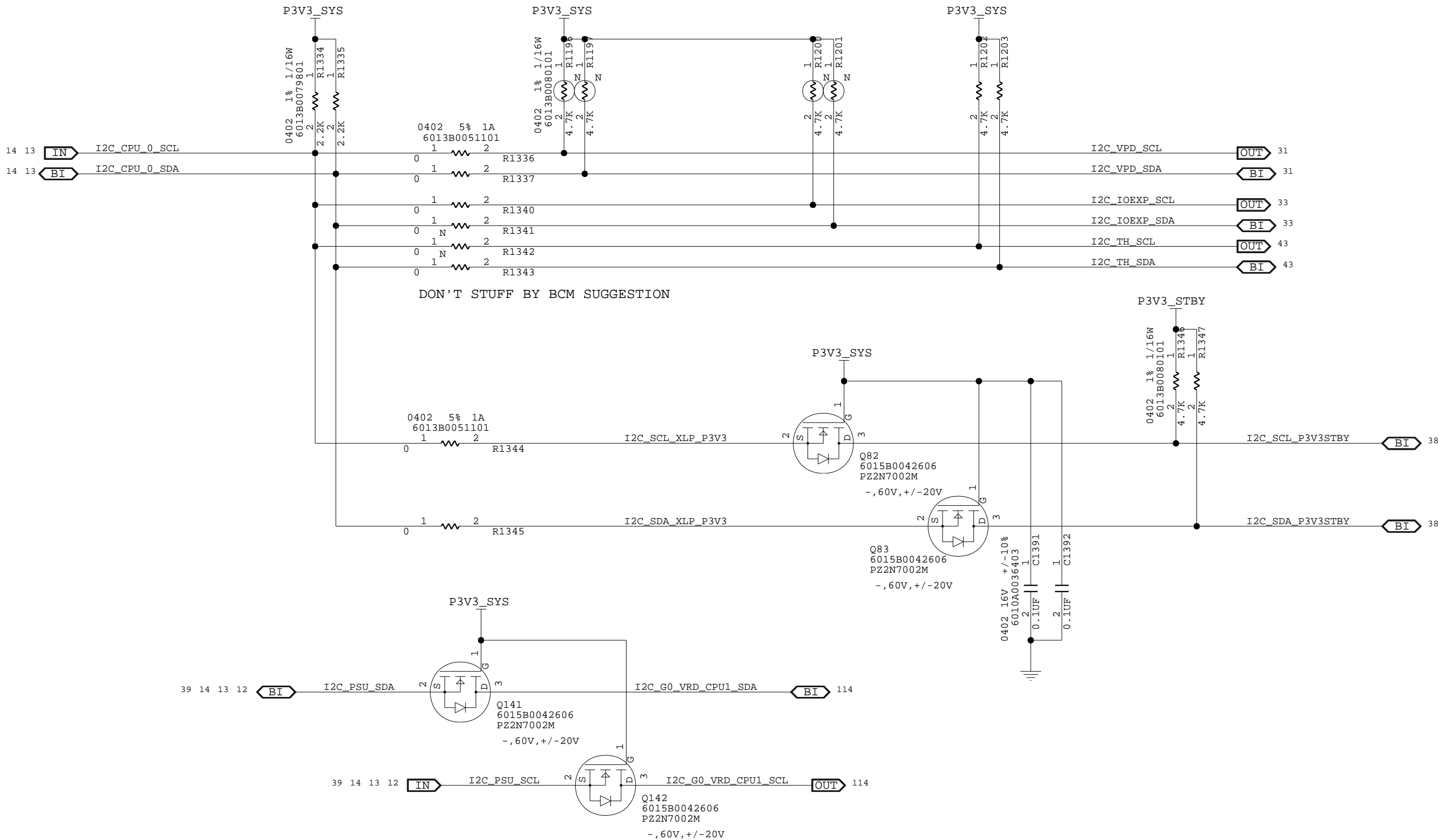
FRONT PANEL LED & RESET BUTTON & FAN CONNECTOR



MODULE=FAN
FUNCTION=

INVENTEC CONFIDENTIAL DO NOT COPY	ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,		
	SHEET 28 OF 124	MODEL, PROJECT, FUNCTION			
	Tue Mar 10 09:39:46 2015	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

I2C - CH 0

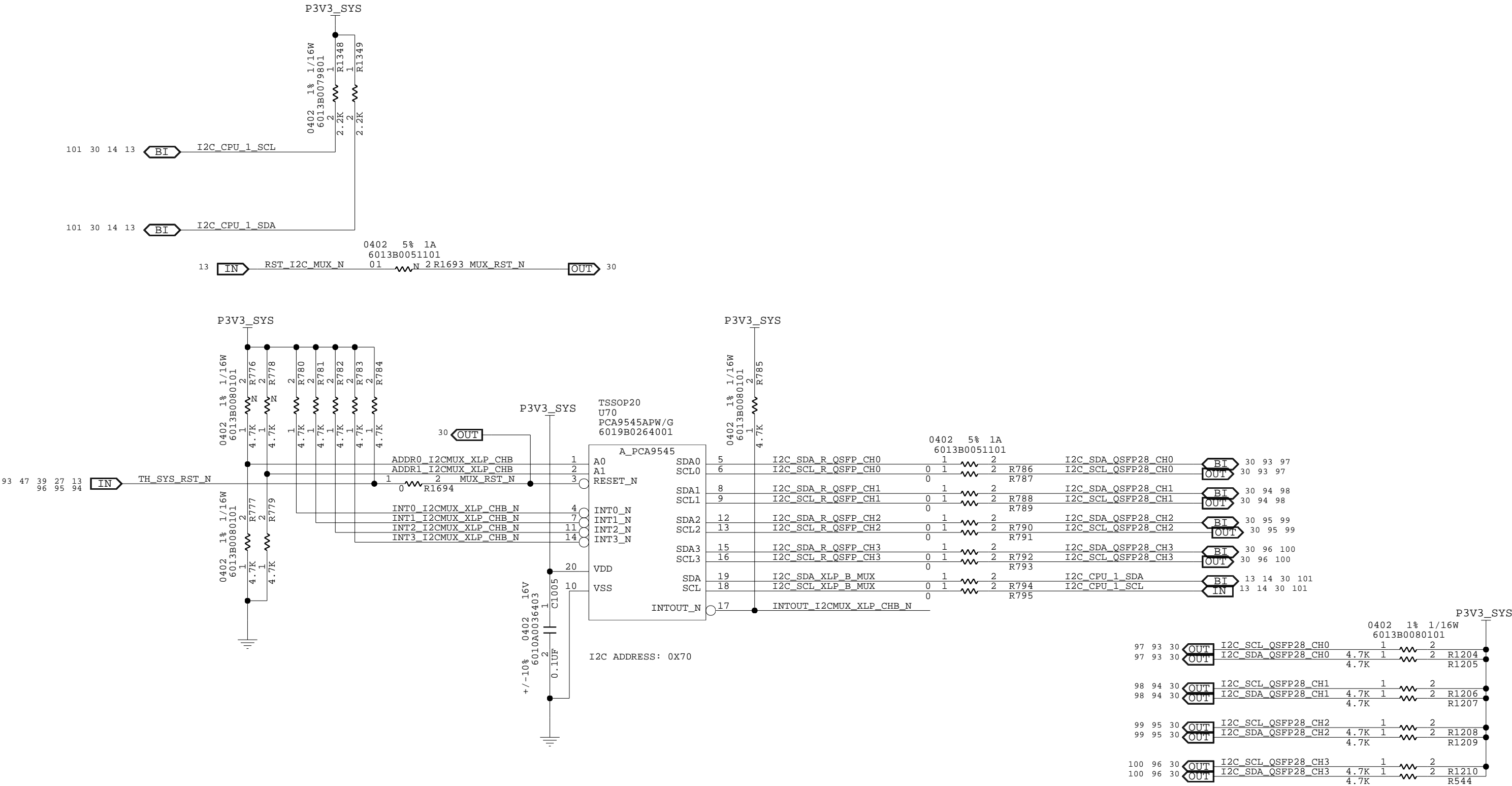


MODULE=I2C
FUNCTION=I2C XLP CH A

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 29 OF 124					
Tue Mar 10 09:39:46 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

I2C - CH 1



MODULE=I2C
FUNCTION=I2C MISC

INVENTEC CONFIDENTIAL DO NOT COPY		PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01
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ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,				
SHEET 30 OF 124	Tue Mar 10 09:39:47 2015	MODEL, PROJECT, FUNCTION				

[illegible]

8

7

6

5

4

3

2

1

VPD & NV-RAM

VPD & NV-RAM

U98 S08
6019B0214101
M24C64-WMN6TP

A_M24C64

8 VCC
6 SCL
7 WC_N

5 I2C_VPD_SDA R
0 I2C_VPD_SDA

29 IN

29 BI

0402 1% 1/16W
6013B0080101

0402 1% 1/16W
6013A008009

0402 16V +/-10%
6010A0036403

0.1uF

0402 5% 1A
6013B00511101

I2C ADDRESS: 0X53

MODULE=I2C_FRU
FUNCTION=VPD & EEPROM

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC , MODEL ,PROJECT ,FUNCTION		
SHEET 31 OF 124		REV XXX		
Tue Mar 10 09:39:47 2015		SIZE B		
PCB NUMBER 6050A2737101		DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01

8

7

6

5

4

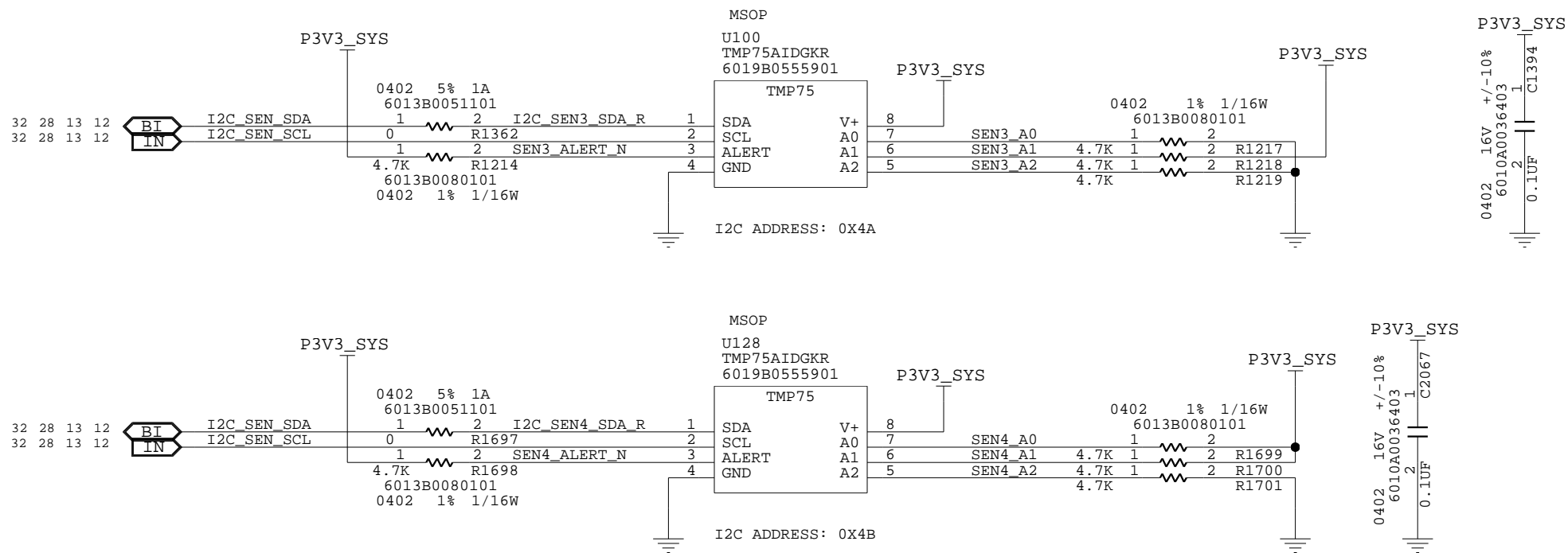
3

2

1

[illegible][illegible]

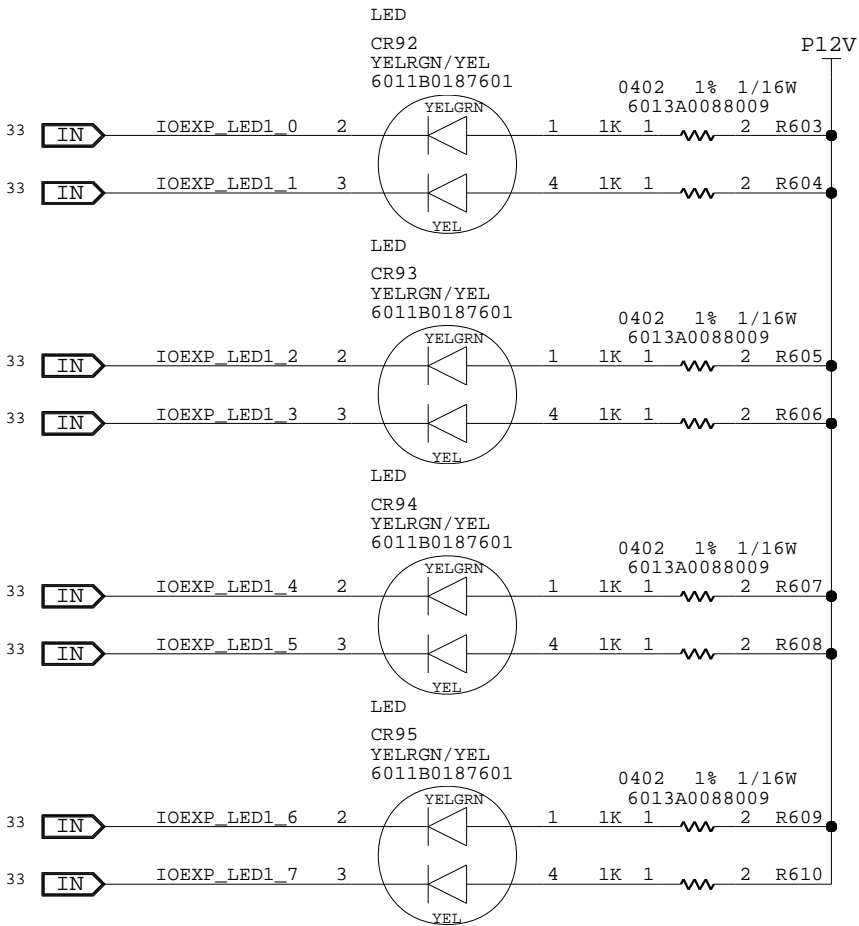
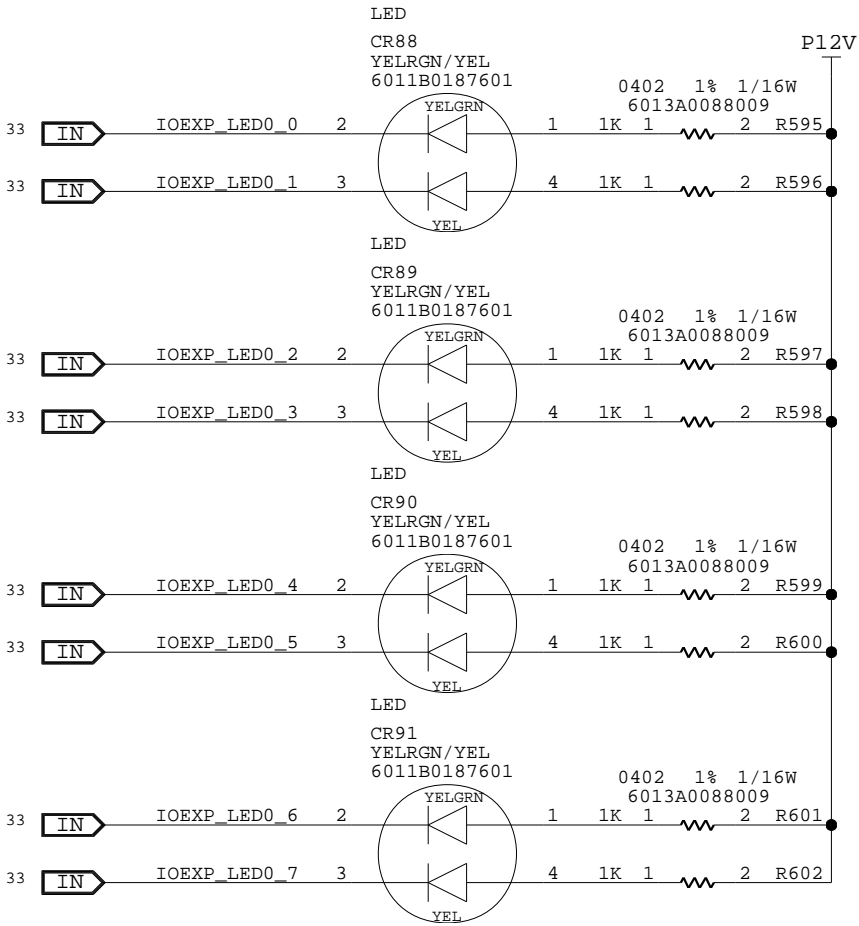
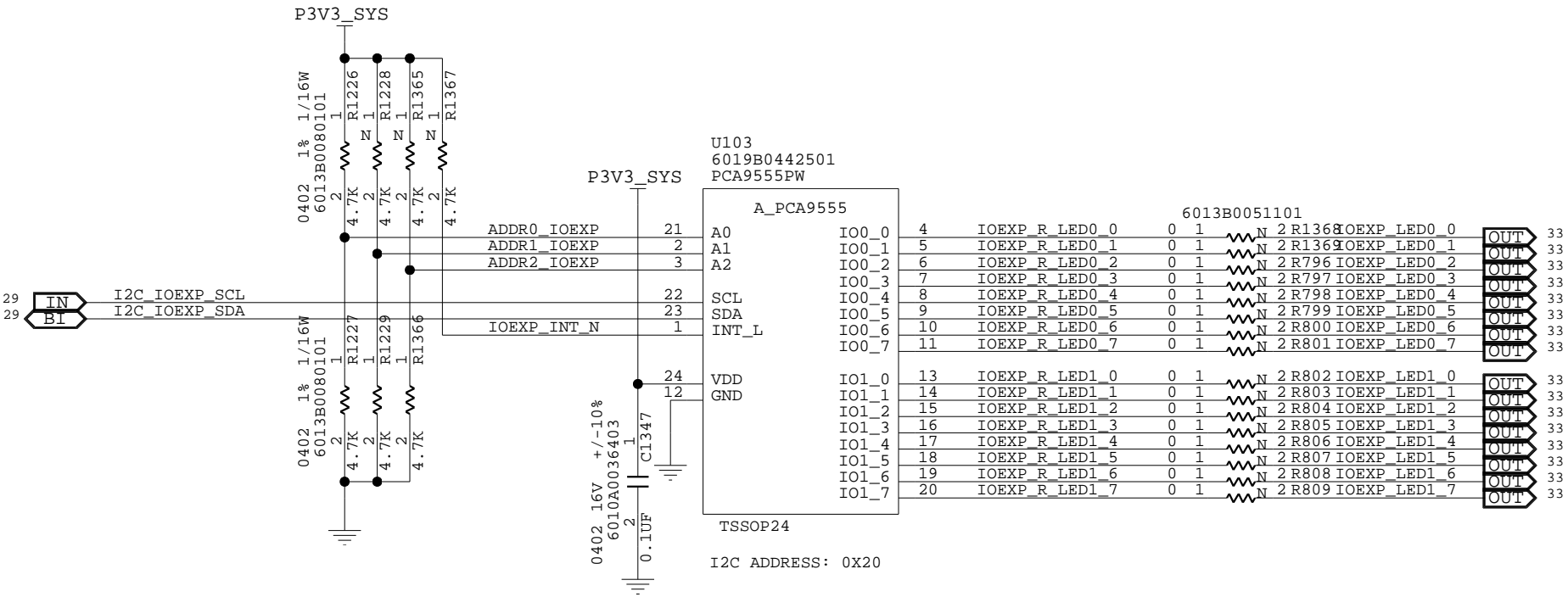
THERMAL SENSOR



MODULE=I2C_THERMAL_SENSOR
FUNCTION=TMP75

INVENTEC CONFIDENTIAL DO NOT COPY			ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC ,		
			SHEET 32 OF 124		MODEL , PROJECT , FUNCTION		
			Tue Mar 10 09:39:47 2015				
			PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

RESERVED I2C CHANNEL 0 IOEXPANDER

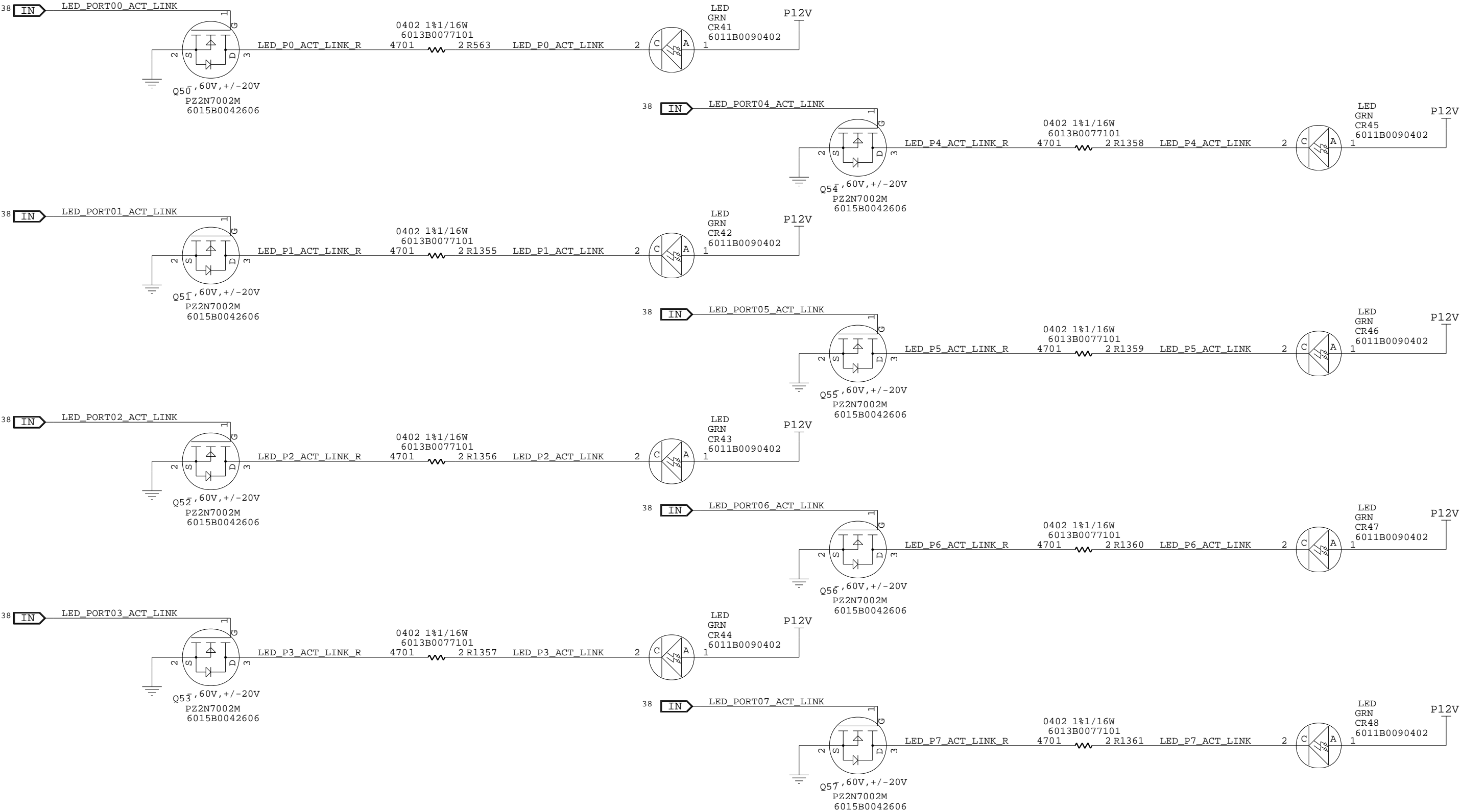


MODULE=RESERVED
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 33 OF 124					
Tue Mar 10 09:39:32 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 ACT/LINK LED(PORT0~7)

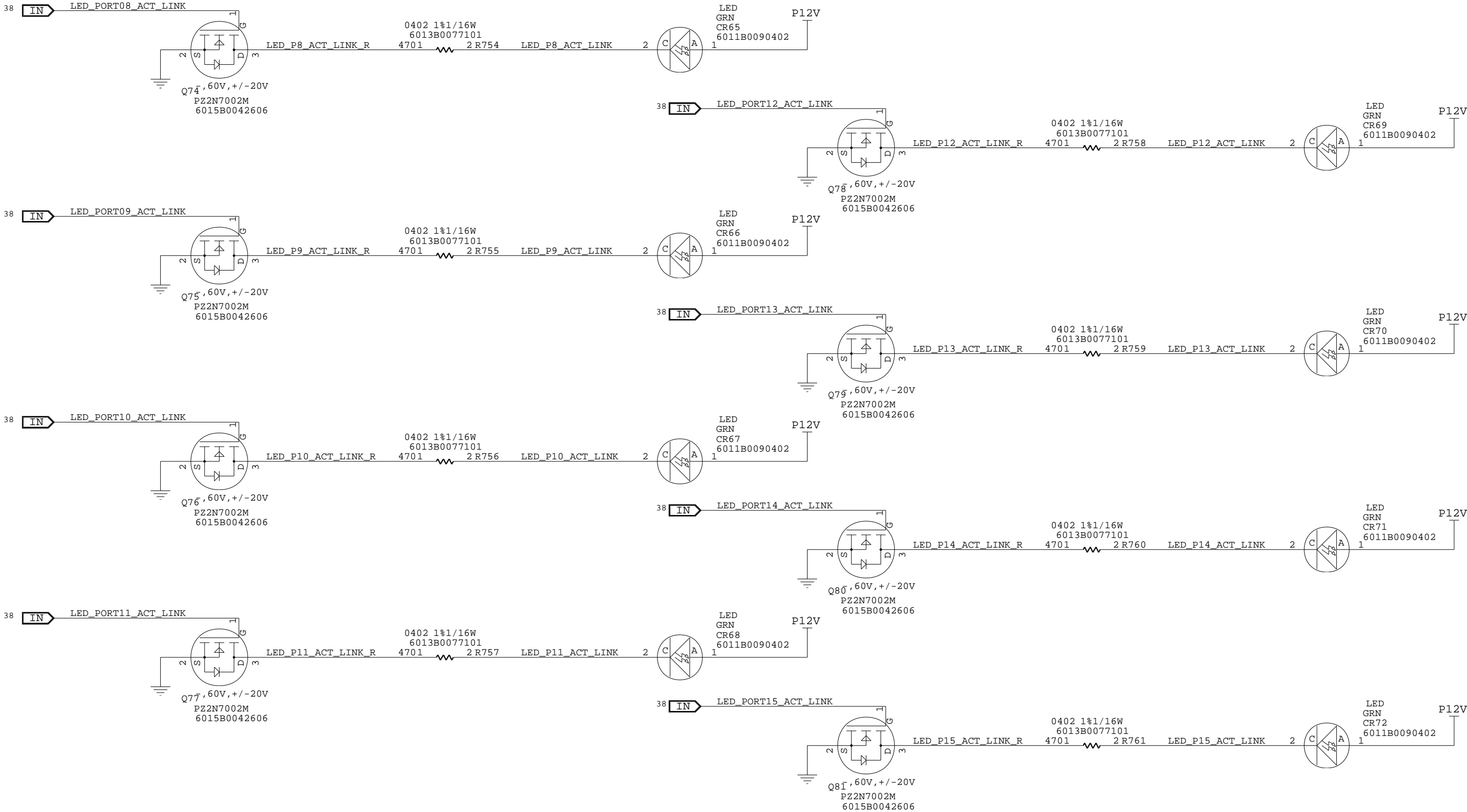


MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 34 OF 124	Tue Mar 10 09:39:47 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

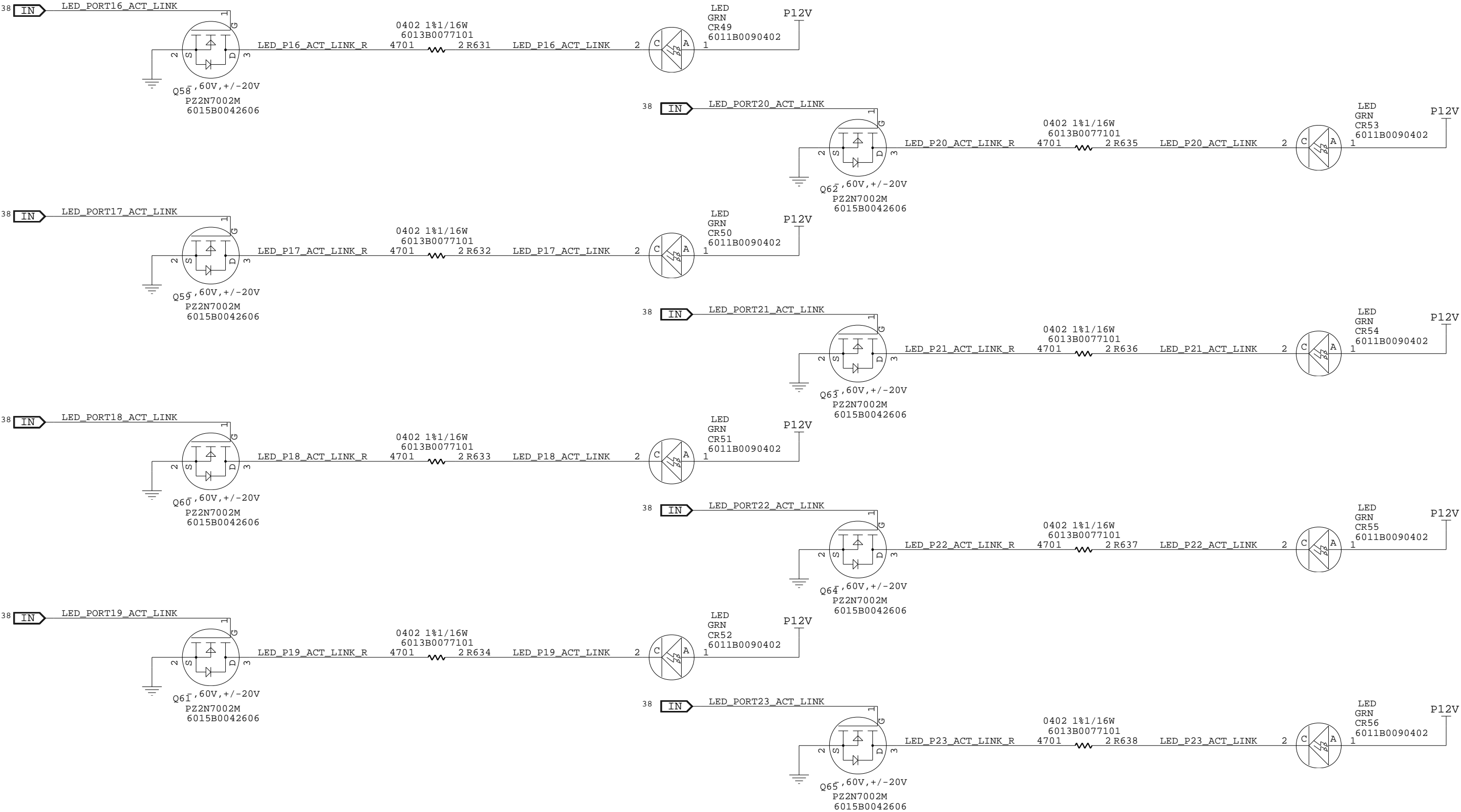
QSFP28 ACT/LINK LED(PORT8~15)



MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY				ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
				SHEET 35 OF 124					
				Tue Mar 10 09:39:52 2015					
				PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

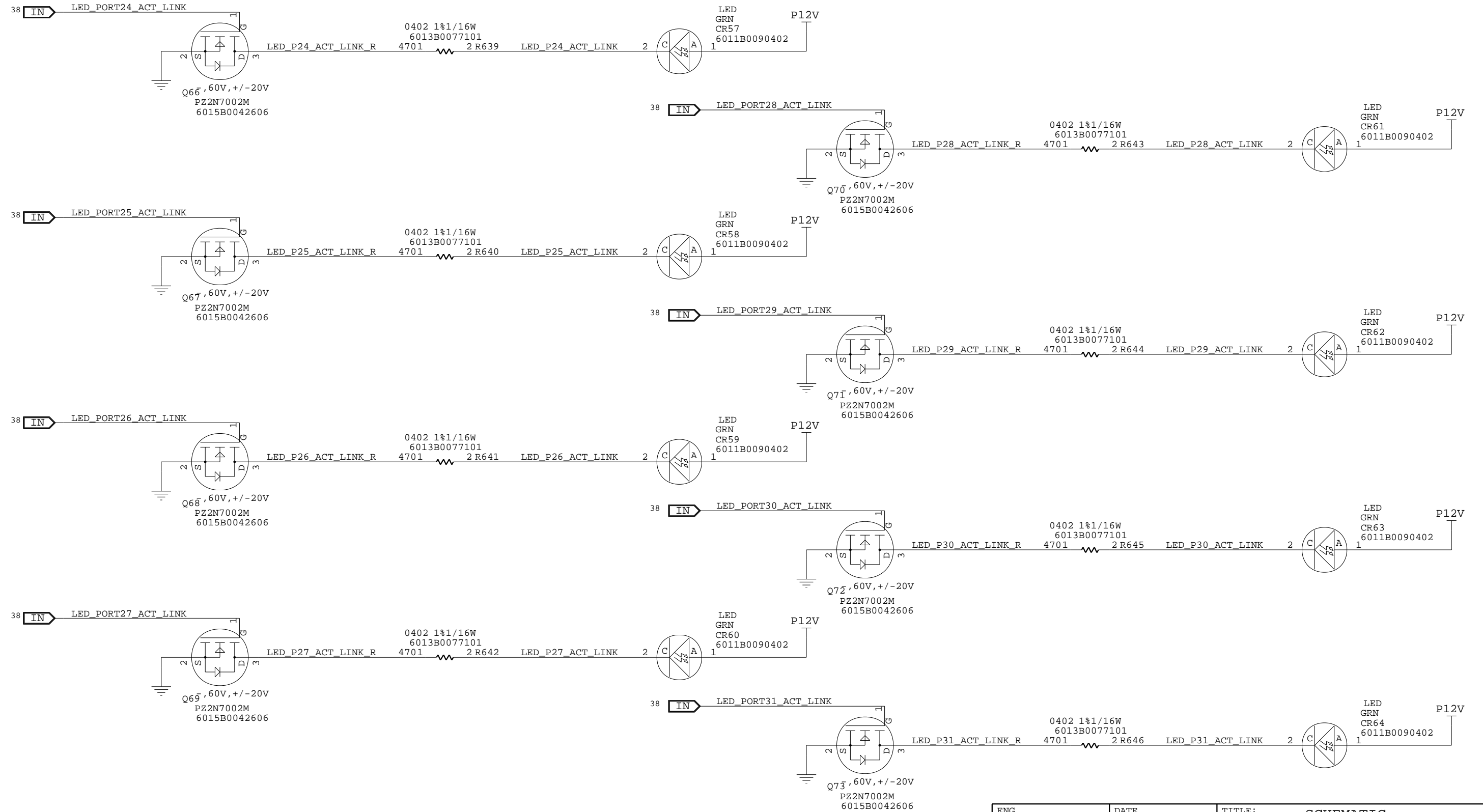
QSFP28 ACT/LINK LED(PORT16~23)



MODULE=QSFP28
FUNCTION=LCMX02-1200UHC MISC

INVENTEC CONFIDENTIAL DO NOT COPY	PCB NUMBER	REV	SIZE	DOCUMENT NUMBER	REV
	6050A2737101	XXX	B	K-CS-1395A2737101-0-0	X01

QSFP28 ACT/LINK LED (PORT24~31)

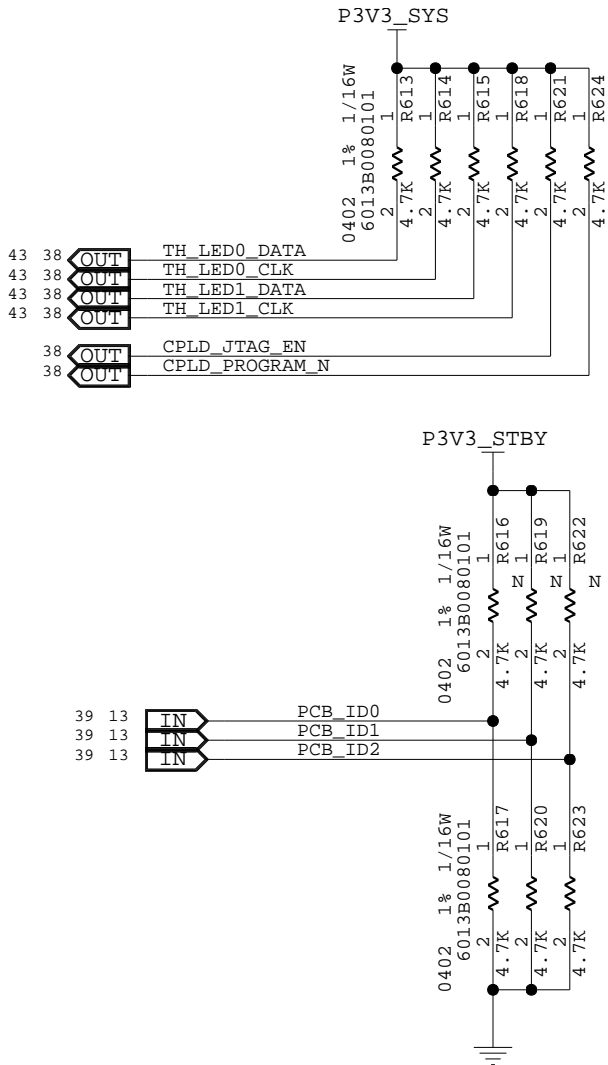
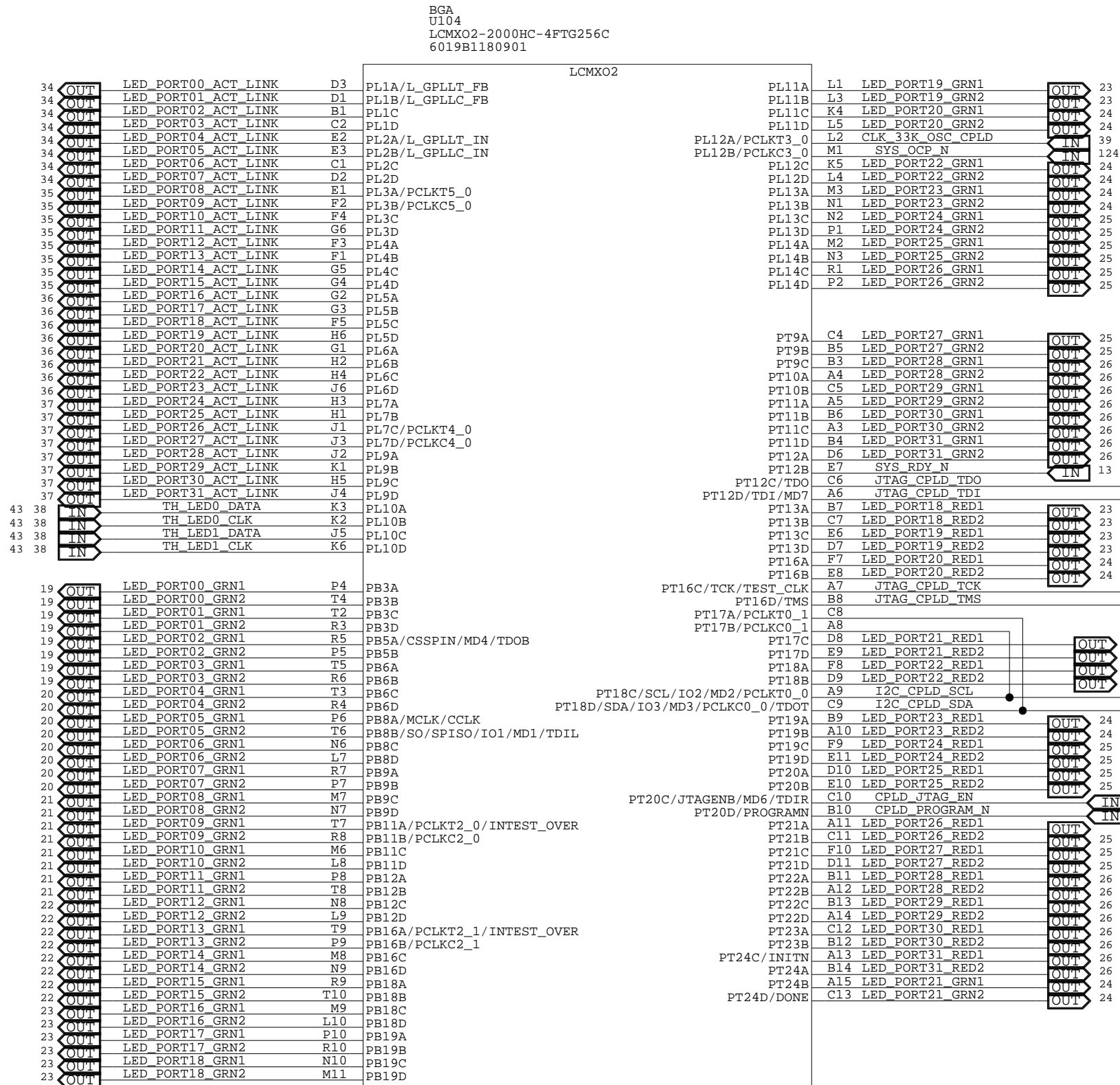


MODULE=QSFP28
FUNCTION=LCMX02-1200UHC

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
SHEET 37 OF 124				
Tue Mar 10 09:39:48 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

CPLD 1 (1 OF 2)



MODULE=CPLD
FUNCTION=LCMX02-2000UHC

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION			
SHEET 38 OF 124					
Tue Mar 10 09:39:47 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

CPLD 1 (2 OF 2)

BGA
U104
LCMXO2-2000HC-4FTG256C
6019B1180901

19	OUT	LED_PORT00_RED1	G15	PR5A
19	OUT	LED_PORT00_RED2	G14	PR5B
19	OUT	LED_PORT01_RED1	G11	PR5C
19	OUT	LED_PORT01_RED2	H12	PR5D
19	OUT	LED_PORT02_RED1	G16	PR6A
19	OUT	LED_PORT02_RED2	H15	PR6B
19	OUT	LED_PORT03_RED1	H13	PR6C
19	OUT	LED_PORT03_RED2	J12	PR6D
20	OUT	LED_PORT04_RED1	H14	PR7A/PCLKT1_0
20	OUT	LED_PORT04_RED2	H16	PR7B/PCLKC1_0
20	OUT	LED_PORT05_RED1	J16	PR7C
20	OUT	LED_PORT05_RED2	J14	PR7D
20	OUT	LED_PORT06_RED1	J15	PR9A
20	OUT	LED_PORT06_RED2	K16	PR9B
20	OUT	LED_PORT07_RED1	H11	PR9C
20	OUT	LED_PORT07_RED2	J13	PR9D
21	OUT	LED_PORT08_RED1	K14	PR10A
21	OUT	LED_PORT08_RED2	K15	PR10B
21	OUT	LED_PORT09_RED1	J11	PR10C
21	OUT	LED_PORT09_RED2	L12	PR10D
21	OUT	LED_PORT10_RED1	L16	PR11A
21	OUT	LED_PORT10_RED2	L14	PR11B
21	OUT	LED_PORT11_RED1	K13	PR11C
21	OUT	LED_PORT11_RED2	K12	PR11D
22	OUT	LED_PORT12_RED1	L15	PR12A
22	OUT	LED_PORT12_RED2	M16	PR12B
22	OUT	LED_PORT13_RED1	K11	PR12C
22	OUT	LED_PORT13_RED2	L13	PR12D
22	OUT	LED_PORT14_RED1	M14	PR13A
22	OUT	LED_PORT14_RED2	M15	PR13B
22	OUT	LED_PORT15_RED1	N15	PR13C
22	OUT	LED_PORT15_RED2	P16	PR13D
23	OUT	LED_PORT16_RED1	N16	PR14A
23	OUT	LED_PORT16_RED2	N14	PR14B
23	OUT	LED_PORT17_RED1	P15	PR14C
23	OUT	LED_PORT17_RED2	R16	PR14D

LCMXO2	
PR1A	D14 CPU_CAUTION_EVENT
PR1B	E15 RST_CPLD_N
PR1C	C15 TH_SYS_RST_N
PR1D	B16 RST_CPLD_PSOC_N
PR2A	D16 CPU_CRITICAL_EVENT
PR2B	E14 PSU1_PRSENT_N
PR2C	C16 PSU1_PS_PWROK
PR2D	D15 PSU1_ALERT_N
PR3A	E16 PSU1_PS_ON_N
PR3B	F15 PSU2_PRSENT_N
PR3C	F13 PSU2_PS_PWROK
PR3D	G12 PSU2_ALERT_N
PR4A	F14 PSU2_PS_ON_N
PR4B	F16 I2C_PSU_SCL
PR4C	F12 I2C_PSU_SDA
PR4D	G13 P12V_SYSTEM_PG_R
PB21A	T11 BIOS_RDY_N
PB21B	P11 CORE_PWRGD_TO_CPLD
PB21C	M10 PVCC_DDR3_HOT_N
PB21D	N11 LED_STATUS_RED
PB22A	R11 SPI_CS0_SPI0_N
PB22B	T12 SPI_CS0_N
PB22C	R13 SPI_CS0_SPI1_N
PB22D	T14 LED_STATUS_GRN
PB24A	P12 HARDRESET
PB24B	T13 CPLD_HEART_BEAT
PB24C	R12 PSOC_THERTRIP_TO_CPLD
PB25A/SN/MD5/SCAN_SHFT_ENB/TDIB	P13 PCB_ID2
PB25B/SI/SISPI/IO0/MD0/TDOR	P15 PCB_ID1
PB25C	T15 PCB_ID0
PB25D	R14 PCB_ID0

13	IN	D14 CPU_CAUTION_EVENT
39	IN	E15 RST_CPLD_N
13	IN	C15 TH_SYS_RST_N
27	IN	B16 RST_CPLD_PSOC_N
30	IN	D16 CPU_CRITICAL_EVENT
47	IN	E14 PSU1_PRSENT_N
93	IN	C16 PSU1_PS_PWROK
94	IN	D15 PSU1_ALERT_N
95	IN	E16 PSU1_PS_ON_N
96	IN	F15 PSU2_PRSENT_N
12	IN	F13 PSU2_PS_PWROK
14	IN	G12 PSU2_ALERT_N
12	IN	F14 PSU2_PS_ON_N
12	IN	F16 I2C_PSU_SCL
13	IN	F12 I2C_PSU_SDA
14	IN	G13 P12V_SYSTEM_PG_R

13	IN	T11 BIOS_RDY_N
13	IN	P11 CORE_PWRGD_TO_CPLD
13	IN	M10 PVCC_DDR3_HOT_N
28	OUT	N11 LED_STATUS_RED
13	IN	R11 SPI_CS0_SPI0_N
13	IN	T12 SPI_CS0_N
13	IN	R13 SPI_CS0_SPI1_N
28	OUT	T14 LED_STATUS_GRN
13	IN	P12 HARDRESET
28	IN	T13 CPLD_HEART_BEAT
13	IN	R12 PSOC_THERTRIP_TO_CPLD
14	IN	P13 PCB_ID2
38	IN	P15 PCB_ID1
38	IN	T15 PCB_ID0
13	IN	R14 PCB_ID0

B2	GND1
B15	GND2
C3	GND3
C14	GND4
D4	GND5
D13	GND6
E5	GND7
E12	GND8
F6	GND9
F11	GND10
H8	GND11
H9	GND12
J8	GND13
J9	GND14
L6	GND15
L11	GND16
M5	GND17
M12	GND18
N4	GND19
N13	GND20
P3	GND21
P14	GND22
R2	GND23
R15	GND24

VCC1	A1
VCC2	A16
VCC3	T1
VCC4	T16
VCCIO0_1	D5
VCCIO0_2	G8
VCCIO0_3	D12
VCCIO0_4	G9
VCCIO3	M4
VCCIO4_1	J7
VCCIO4_2	H7
VCCIO5	E4
VCCIO1_1	E13
VCCIO1_2	H10
VCCIO1_3	J10
VCCIO1_4	M13
VCCIO2_1	K9
VCCIO2_2	N12
VCCIO2_3	K8
VCCIO2_4	N5
VCC5	G7
VCC6	G10
VCC7	K7
VCC8	K10

P3V3_STBY	
0603 6.3V +/-20%	6010B0063001
0201 +/-10%6.3V	6010B0095401
0.1UF2	65R 1 C1398
0.1UF2	1 C1400
0.1UF2	1 C1403
0.1UF2	1 C1350
0.1UF2	1 C1351
0.1UF2	1 C1352
0.1UF2	1 C1404
0.1UF2	1 C1353
0.1UF2	1 C1405
0.1UF2	1 C1406
0.1UF2	1 C1407
0.1UF2	1 C1354
0.1UF2	1 C1355
0.1UF2	1 C1356
0.1UF2	1 C1408
0.1UF2	1 C1357

J31 6012B0289601 CONN2	
1	P12V_SYSTEM_PG
2	P12V_SYSTEM_PG_R

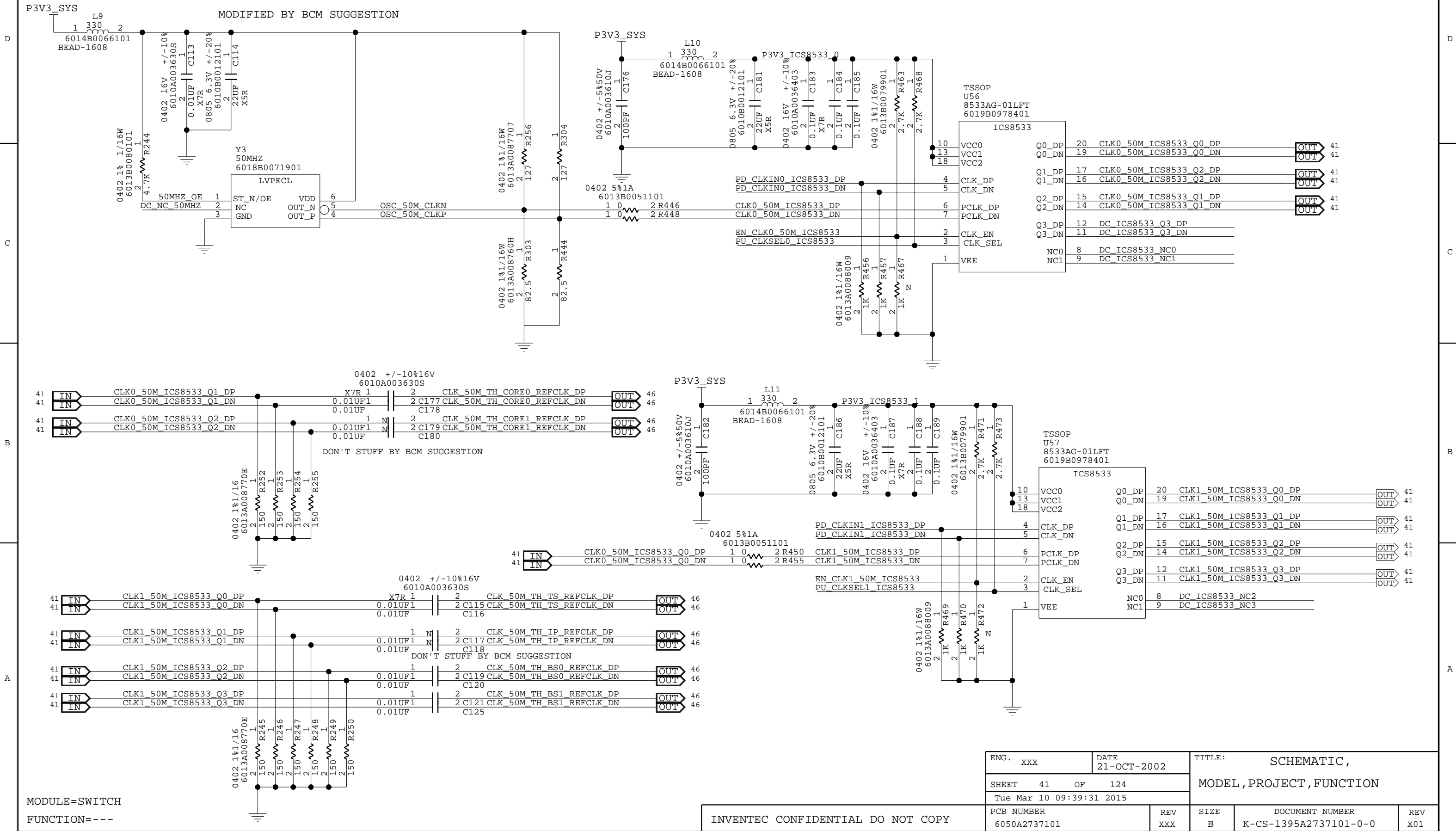
ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION			
SHEET 39 OF 124					
Tue Mar 10 09:39:48 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

MODULE=CPLD
FUNCTION=LCMXO2-2000UHC

INVENTEC CONFIDENTIAL DO NOT COPY

8		7		6		5		4		3		2		1													
RESERVED																											
D																D											
C																C											
B																B											
A																A											
MODULE=RESERVED																INVENTEC		DRN. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC , MODEL , PROJECT , FUNCTION					
FUNCTION=																ENG. XXX		DATE 21-OCT-2002		CHK , D. XXX		DATE 21-OCT-2002					
																SHEET 40 OF 124		PCB NUMBER		REV		SIZE		DOCUMENT NUMBER		REV	
																Tue Mar 10 09:37:26 2015		6050A2737101		XXX		B		K-CS-1395A2737101-0-0		X01	
8		7		6		5		4		3		2		1													

BCM56960 CLOCK - 50MHZ



ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 41 OF 124					
Tue Mar 10 09:39:31 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

INVENTEC CONFIDENTIAL DO NOT COPY

BCM56960 - UART/I2C/GPIO

U61
BCM56960A0KFSBG
6019B1262901

BCM56960

NC_TH_UART3_TX G27
NC_TH_UART3_RX G28
NC_TH_UART3_RTS_N F32
NC_TH_UART3_CTS_N H27

IP_UART3_SOUT
IP_UART3_SIN
IP_UART3_RTS_N
IP_UART3_CTS_N

IP_MDIO_SEG2_MODEHV
IP_MDIO_SEG1_MODEHV
IP_MDIO_SEG0_MODEHV

L1_RCVRD_CLK_VALID_BKUP
L1_RCVRD_CLK_VALID
L1_RCVRD_CLK_BKUP
L1_RCVRD_CLK

NC_TH_UART2_TX J28
NC_TH_UART2_RX D31
NC_TH_UART2_RTS_N G26
NC_TH_UART2_CTS_N C30

IP_UART2_SOUT
IP_UART2_SIN
IP_UART2_RTS_N
IP_UART2_CTS_N

IP_BS1_TC
IP_BS1_HB
IP_BS1_CLK

NC_TH_UART1_TX G30
NC_TH_UART1_RX F29

IP_UART1_SOUT_RESERVED
IP_UART1_SIN_RESERVED

NC_TH_UART0_TX J27
NC_TH_UART0_RX E28
NC_TH_UART0_RTS_N H29
NC_TH_UART0_CTS_N E31

IP_UART0_CTS_N
IP_UART0_RTS_N
IP_UART0_SIN
IP_UART0_SOUT

IP_BS0_TC
IP_BS0_HB
IP_BS0_CLK

TH_GGPIO5 BF31
TH_GGPIO4 BE31
TH_GGPIO3 BE30
TH_GGPIO2 BD31
TH_GGPIO1 BH32
TH_GGPIO0 BG31

IP_G_GPIO5
IP_G_GPIO4
IP_G_GPIO3
IP_G_GPIO2
IP_G_GPIO1
IP_G_GPIO0

TH_GPIO3 L29
TH_GPIO2 T29
TH_GPIO1 R29
TH_GPIO0 J30

IP_GPIO3
IP_GPIO2
IP_GPIO1
IP_GPIO0

TH_TSGPIO1 F31
TH_TSGPIO0 M29

IP_TS_GPIO1
IP_TS_GPIO0

NC_TH_EC_LOS1 BJ23
NC_TH_EC_LOS0 BE24

EC_LOS1
EC_LOS0

100 91 IN OPRXLOS_QSFP2831 T16 FC_LOS31
100 90 IN OPRXLOS_QSFP2830 R16 FC_LOS30
100 89 IN OPRXLOS_QSFP2829 P16 FC_LOS29
100 88 IN OPRXLOS_QSFP2828 T18 FC_LOS28
100 87 IN OPRXLOS_QSFP2827 R18 FC_LOS27
100 86 IN OPRXLOS_QSFP2826 P18 FC_LOS26
100 85 IN OPRXLOS_QSFP2825 P19 FC_LOS25
100 84 IN OPRXLOS_QSFP2824 T20 FC_LOS24
99 83 IN OPRXLOS_QSFP2823 R20 FC_LOS23
99 82 IN OPRXLOS_QSFP2822 P20 FC_LOS22
99 81 IN OPRXLOS_QSFP2821 R21 FC_LOS21
99 80 IN OPRXLOS_QSFP2820 P21 FC_LOS20
99 79 IN OPRXLOS_QSFP2819 R22 FC_LOS19
99 78 IN OPRXLOS_QSFP2818 P22 FC_LOS18
99 77 IN OPRXLOS_QSFP2817 P23 FC_LOS17
99 76 IN OPRXLOS_QSFP2816 R23 FC_LOS16
98 75 IN OPRXLOS_QSFP2815 M31 FC_LOS15
98 74 IN OPRXLOS_QSFP2814 P30 FC_LOS14
98 73 IN OPRXLOS_QSFP2813 R30 FC_LOS13
98 72 IN OPRXLOS_QSFP2812 P34 FC_LOS12
98 71 IN OPRXLOS_QSFP2811 N36 FC_LOS11
98 70 IN OPRXLOS_QSFP2810 P39 FC_LOS10
98 69 IN OPRXLOS_QSFP2809 R38 FC_LOS9
98 68 IN OPRXLOS_QSFP2808 N32 FC_LOS8
97 67 IN OPRXLOS_QSFP2807 N30 FC_LOS7
97 66 IN OPRXLOS_QSFP2806 P33 FC_LOS6
97 65 IN OPRXLOS_QSFP2805 P32 FC_LOS5
97 64 IN OPRXLOS_QSFP2804 R34 FC_LOS4
97 63 IN OPRXLOS_QSFP2803 R35 FC_LOS3
97 62 IN OPRXLOS_QSFP2802 P36 FC_LOS2
97 61 IN OPRXLOS_QSFP2801 P37 FC_LOS1
97 60 IN OPRXLOS_QSFP2800 M37 FC_LOS0

IP_LED_DATA2
IP_LED_CLK2

G31 TH_LED2_DATA_R 1 2 DC_TH_LED2_DATA
N29 TH_LED2_CLK_R 27.4 1 2 R507 DC_TH_LED2_CLK

IP_LED_DATA1
IP_LED_CLK1

J31 TH_LED1_DATA_R 1 2 TH_LED1_DATA
K31 TH_LED1_CLK_R 27.4 1 2 R509 TH_LED1_CLK

IP_LED_DATA0
IP_LED_CLK0

L30 TH_LED0_DATA_R 1 2 TH_LED0_DATA
H31 TH_LED0_CLK_R 27.4 1 2 R511 TH_LED0_CLK

IP_MDIO7
IP_MDC7

K24 TH_XG7_MDIO
K25 TH_XG7_MDC_R 27.4 1 2 R513

IP_MDIO6
IP_MDC6

N26 TH_XG6_MDIO
E25 TH_XG6_MDC_R 27.4 1 2 R514

IP_MDIO5
IP_MDC5

M24 TH_XG5_MDIO
J24 TH_XG5_MDC_R 27.4 1 2 R515

IP_MDIO4
IP_MDC4

G23 TH_XG4_MDIO
E26 TH_XG4_MDC_R 27.4 1 2 R516

IP_MDIO3
IP_MDC3

L25 TH_XG3_MDIO
M27 TH_XG3_MDC_R 27.4 1 2 R517

IP_MDIO2
IP_MDC2

J26 TH_XG2_MDIO
G24 TH_XG2_MDC_R 27.4 1 2 R518

IP_MDIO1
IP_MDC1

F23 TH_XG1_MDIO
T26 TH_XG1_MDC_R 27.4 1 2 R519

IP_MDIO0
IP_MDC0

L24 TH_XG0_MDIO
F24 TH_XG0_MDC_R 27.4 1 2 R520

IP_BSC_SDA2
IP_BSC_SCL2

R25 NC_TH_I2C_SDA2
P26 NC_TH_I2C_SCL2

IP_BSC_SDA1
IP_BSC_SCL1

T28 NC_TH_I2C_SDA1
L27 NC_TH_I2C_SCL1

IP_BSC_SDA0
IP_BSC_SCL0

T27 I2C_TH_SDA BI 29
C31 I2C_TH_SCL BI 29

0402 1% 1/16W
6013B0080101
1 2
4.7K R522

4.7K1 N 2 R523
4.7K1 N 2 R524
4.7K1 N 2 R525
4.7K1 N 2 R526

4.7K1 N 2 R527
4.7K1 N 2 R528
4.7K1 N 2 R529

F27 NC_TH_BS0_TIME_VAL
N27 NC_TH_BS0_SYNC
K29 NC_TH_BS0_BITCLK

0402 1% 1/16W
6013B0080101
1 1
4.7K R521
2 2
4.7K R530
1 1
4.7K R531
2 2
4.7K R532

P3V3_SYS

P3V3_SYS

0402 1% 1/16W
6013A0088009
1K1 N 2 R533
1K1 N 2 R534
1K1 N 2 R535
1K1 N 2 R536

0402 1% 1/16
6013A008740W
1 2
27.4 R508

27.4 R510

27.4 R512

0402 1% 1/16W
6013B0080101
1 2
4.7K R522

TH_XG7_MDIO 4.7K1 N 2 R537
TH_XG6_MDIO 4.7K1 N 2 R538
TH_XG5_MDIO 4.7K1 N 2 R539
TH_XG4_MDIO 4.7K1 N 2 R540
TH_XG3_MDIO 4.7K1 N 2 R541
TH_XG2_MDIO 4.7K1 N 2 R542
TH_XG1_MDIO 4.7K1 N 2 R543
TH_XG0_MDIO 4.7K1 N 2 R555

0402 1% 1/16W
6013A0088009
1K1 N 2 R556
1K1 N 2 R557
1K1 N 2 R559
1K1 N 2 R561
1K1 N 2 R564
1K1 N 2 R565
1K1 N 2 R566
1K1 N 2 R567

P3V3_SYS

P3V3_SYS

0402 1% 1/16W
6013B0080101
1 2
4.7K R522
2 2
4.7K R530
1 1
4.7K R531
2 2
4.7K R532

4.7K1 N 2 R501
4.7K1 N 2 R502
4.7K1 N 2 R503
4.7K1 N 2 R504

4.7K1 N 2 R505
4.7K1 N 2 R506

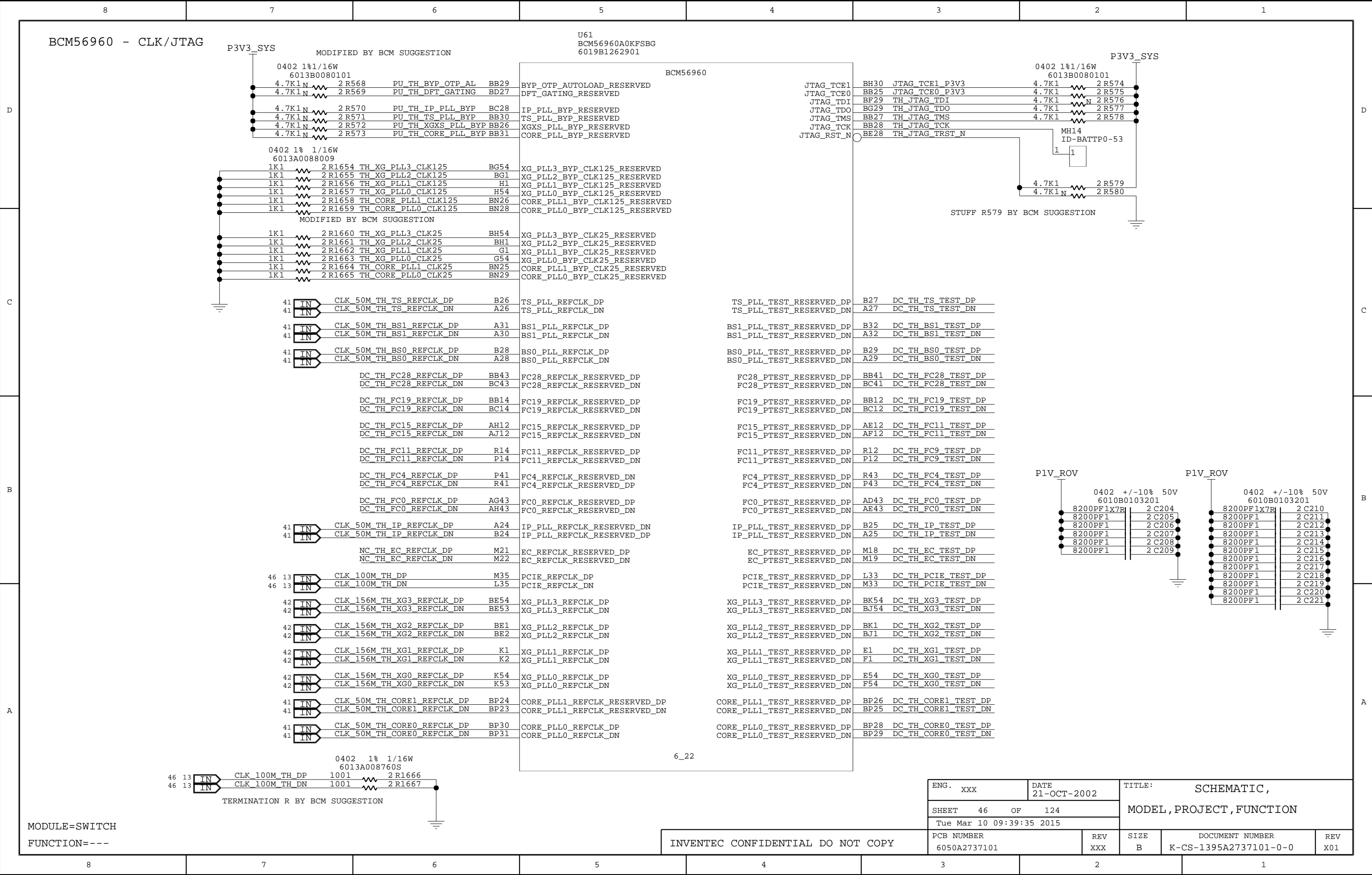
CONNECT TO QSFP28 BY BCM SUGGESTION

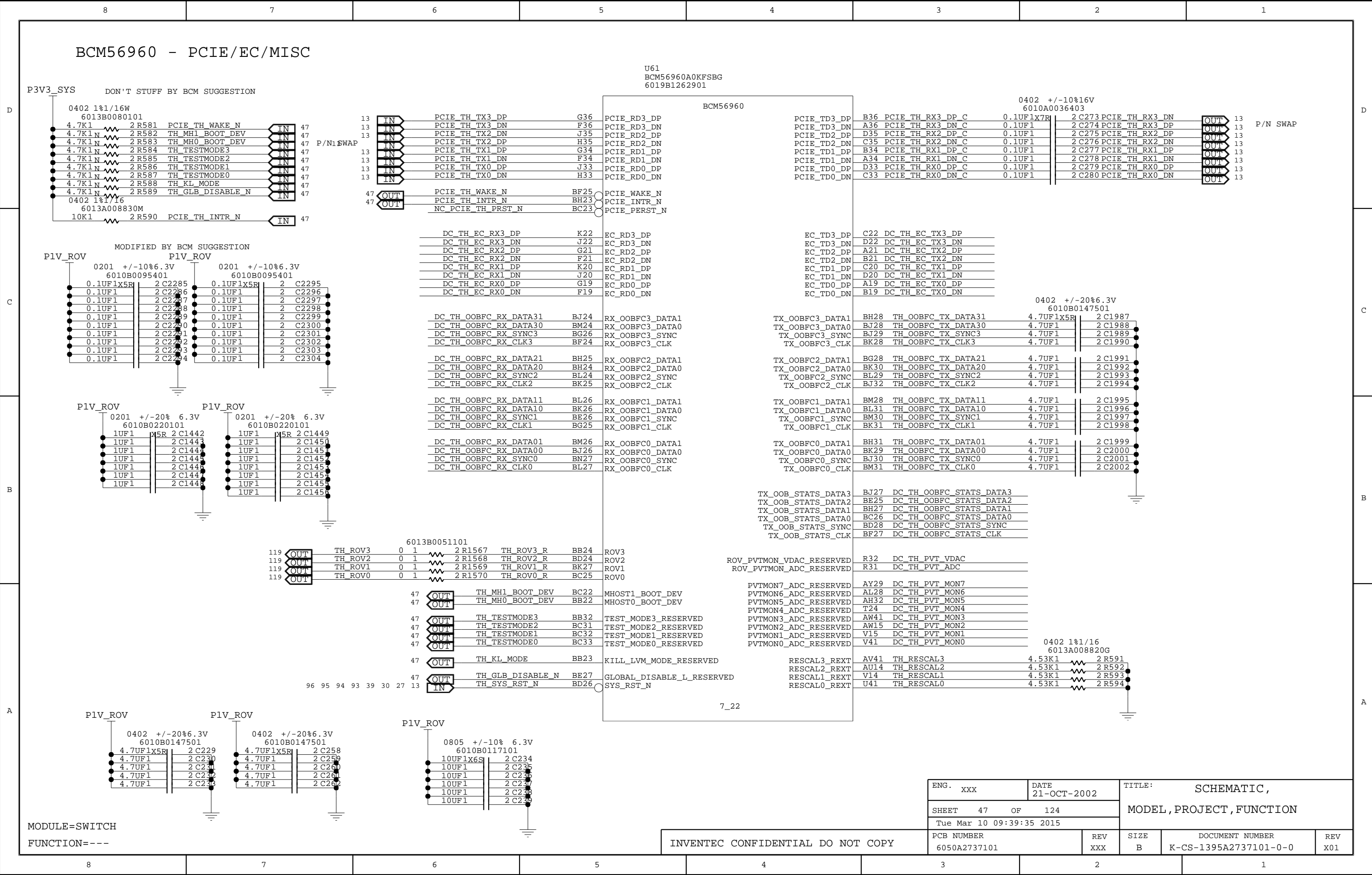
1_22

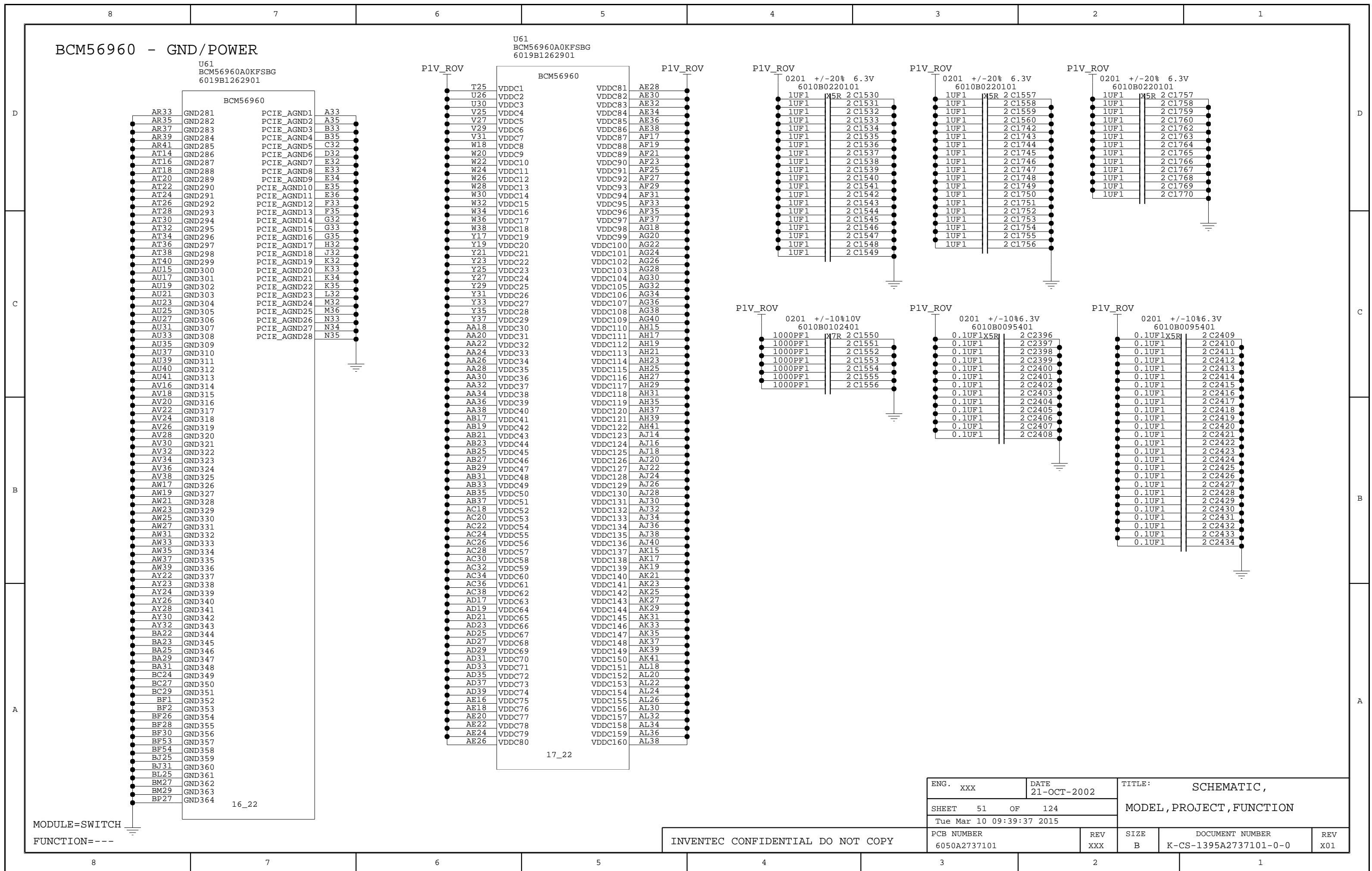
MODULE=SWITCH
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION				
SHEET 43 OF 124								
Tue Mar 10 09:39:33 2015								
PCB NUMBER 6050A2737101			REV XXX	SIZE B		DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01







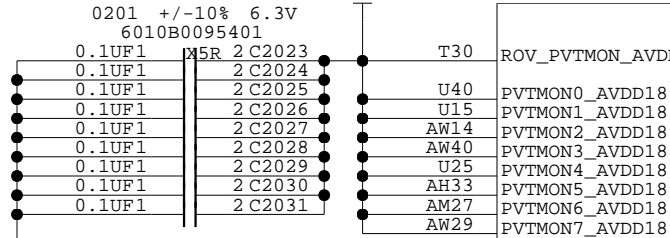
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INVENTEC CONFIDENTIAL DO NOT COPY	PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01
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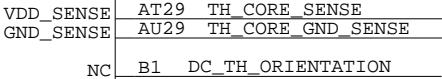
BCM56960 - POWER

U61
BCM56960A0KFSBG
6019B1262901

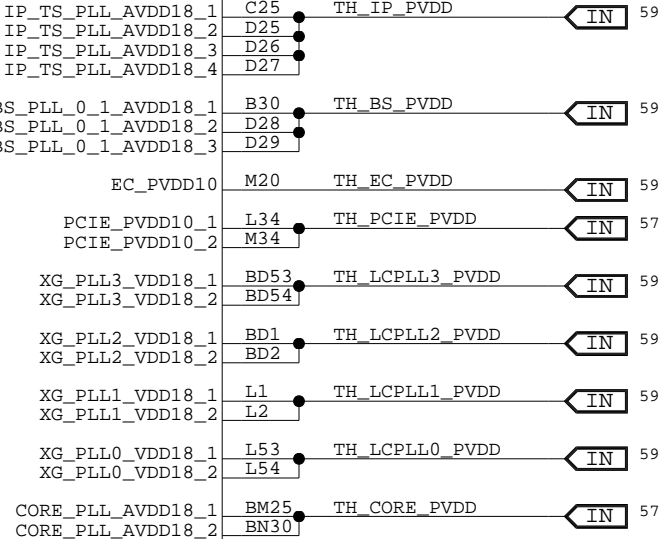
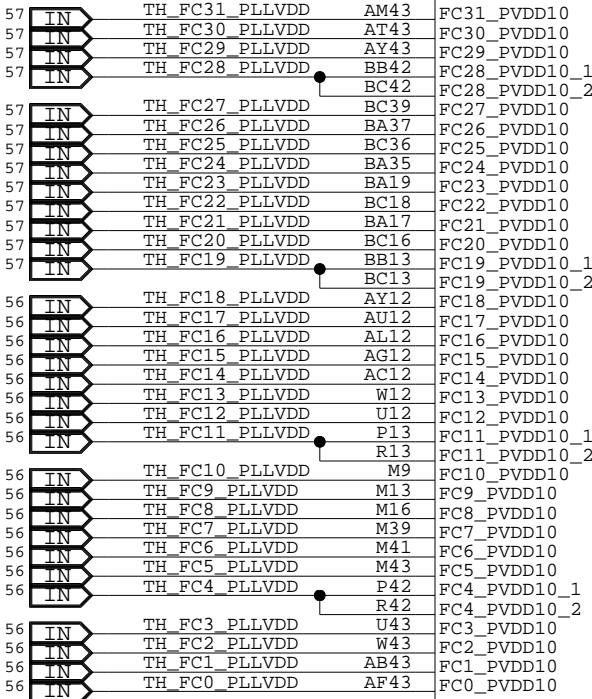
P1V8_SW



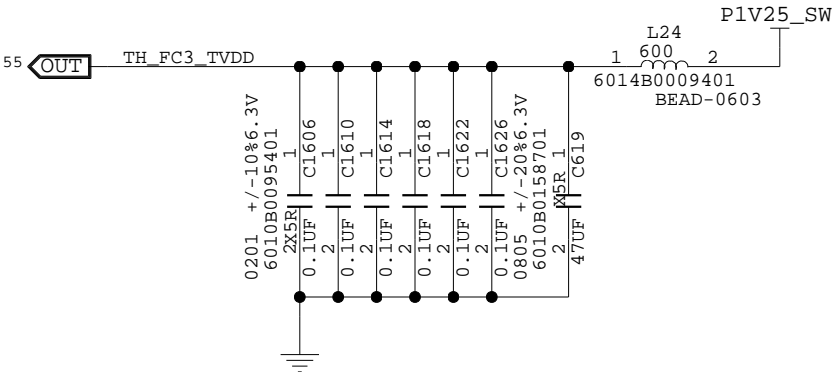
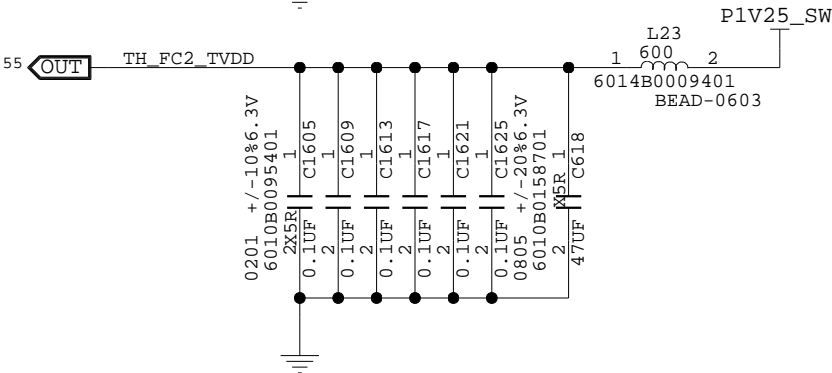
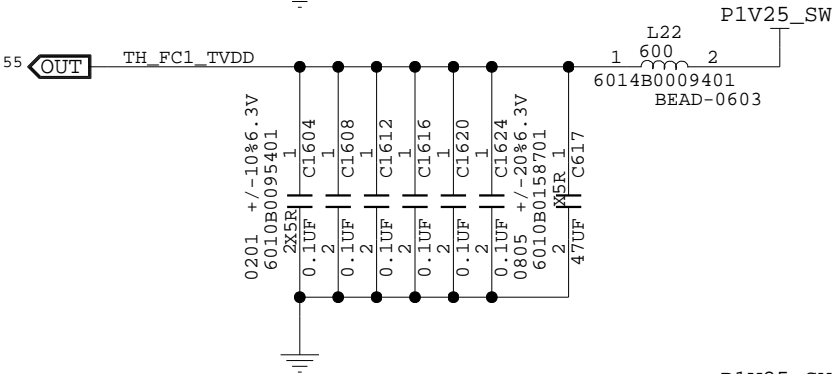
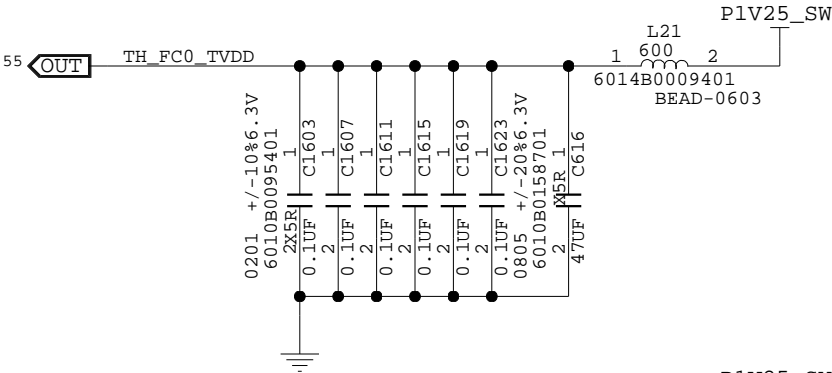
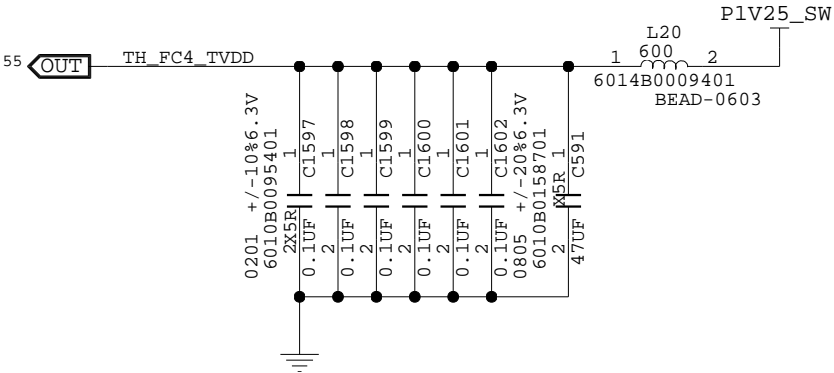
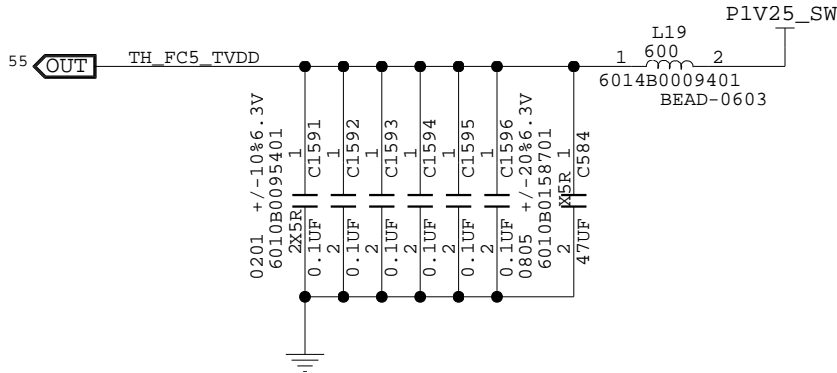
BCM56960



120
120



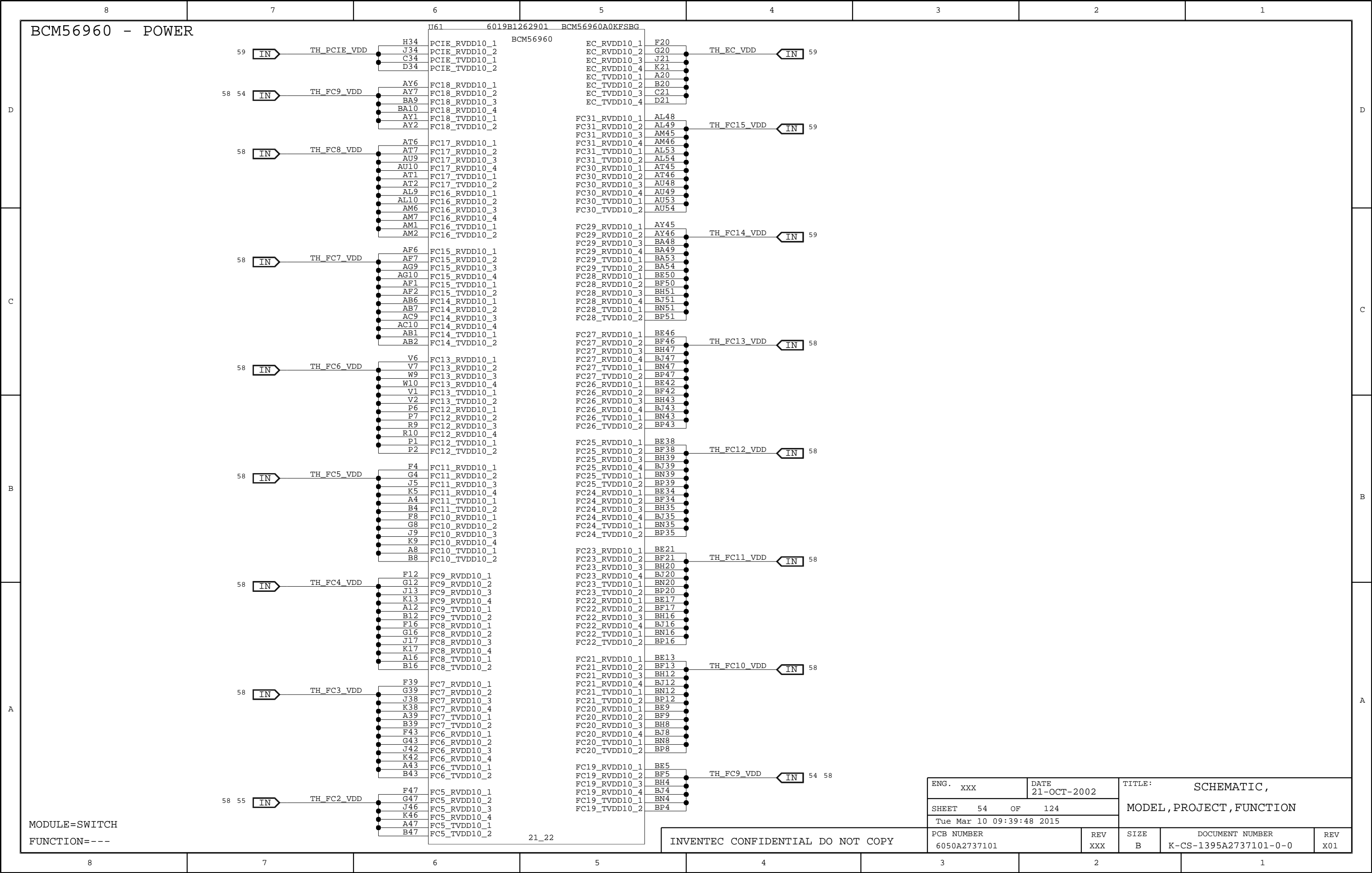
20_22



MODULE=SWITCH
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION			
SHEET 53 OF 124							
Tue Mar 10 09:39:37 2015							
PCB NUMBER 6050A2737101			REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01



MODULE=SWITCH

FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX

DATE 21-OCT-2002

TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION

SHEET 54 OF 124

Tue Mar 10 09:39:48 2015

PCB NUMBER 6050A2737101

REV XXX

SIZE B

DOCUMENT NUMBER K-CS-1395A2737101-0-0

REV X01

8

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[illegible][illegible][illegible][illegible]

8	7	6	5	4	3	2	1
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8

	4	
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PCB NUMBER

6050A2737101

REV	SIZE
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XXX

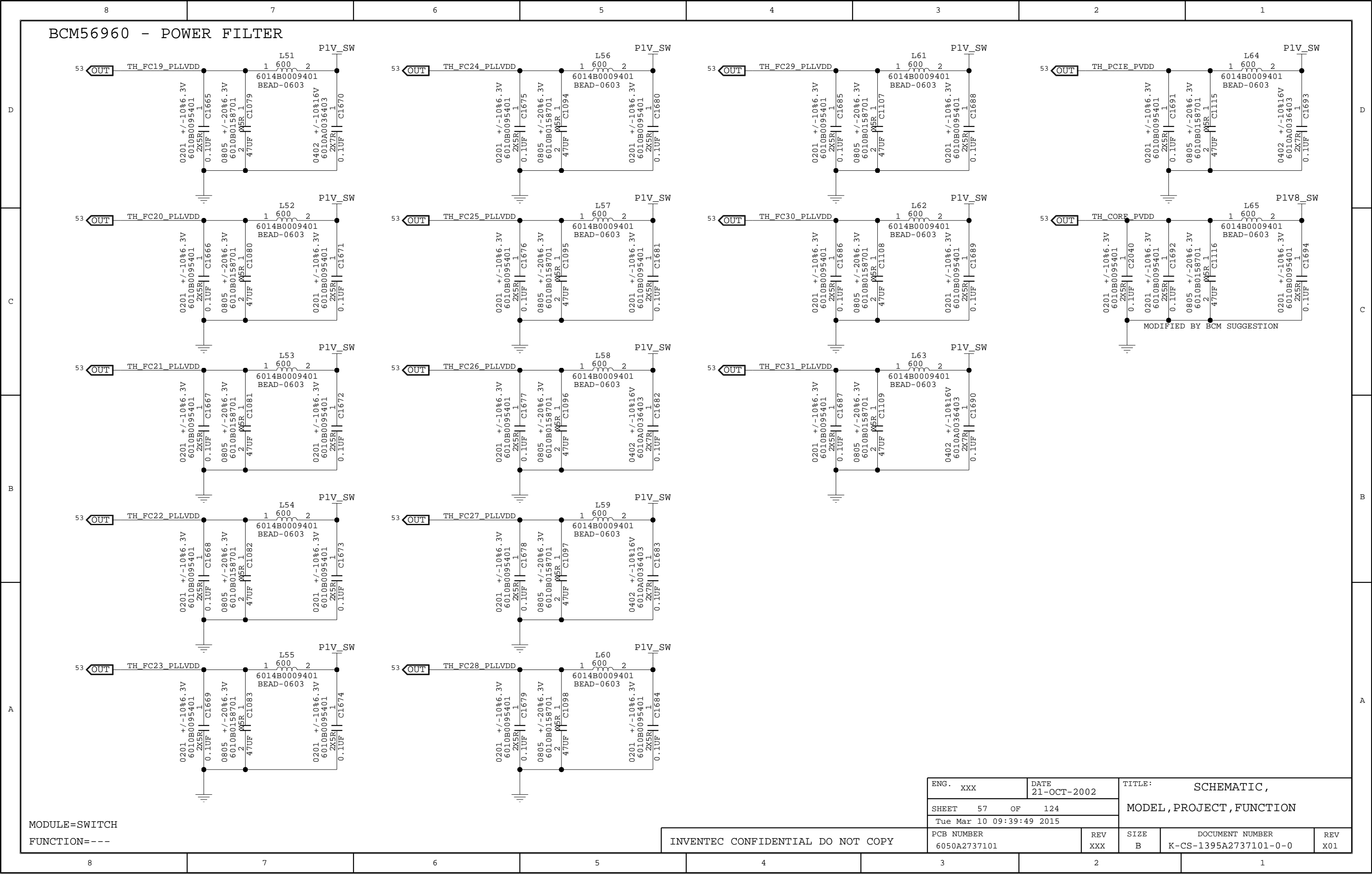
SIZE	DOCUMENT NUMBER	REV
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DOCUMENT NUMBER

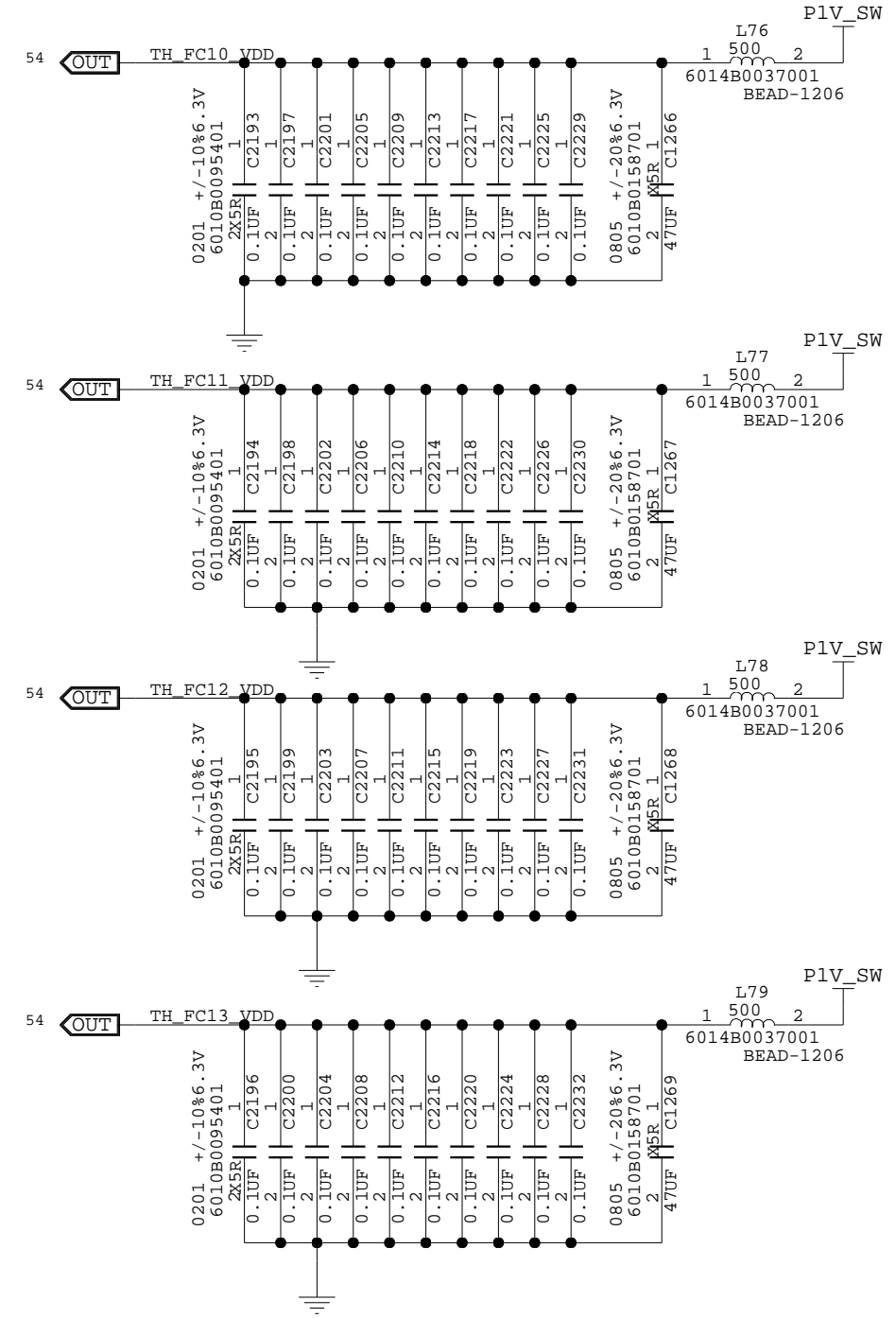
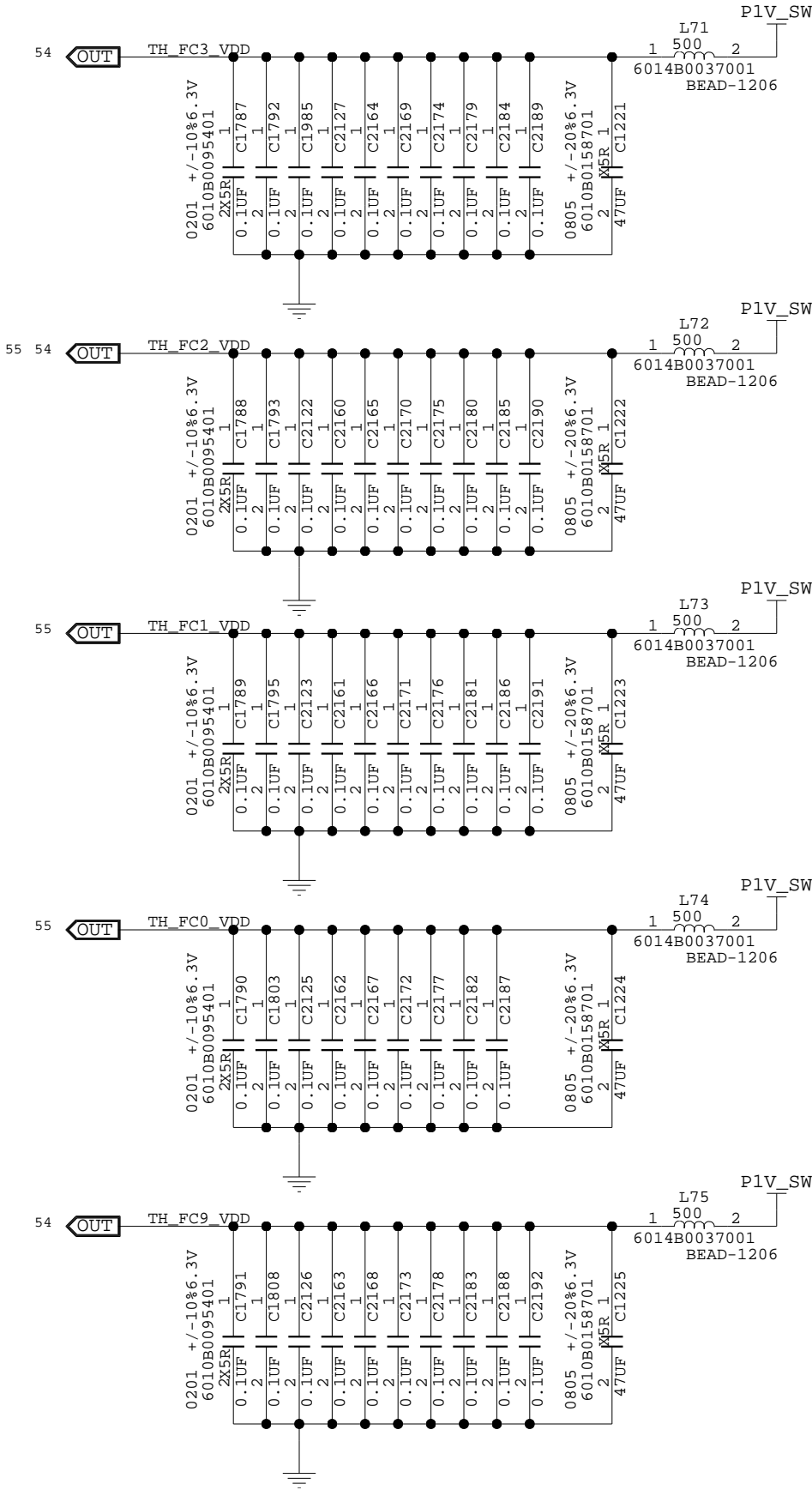
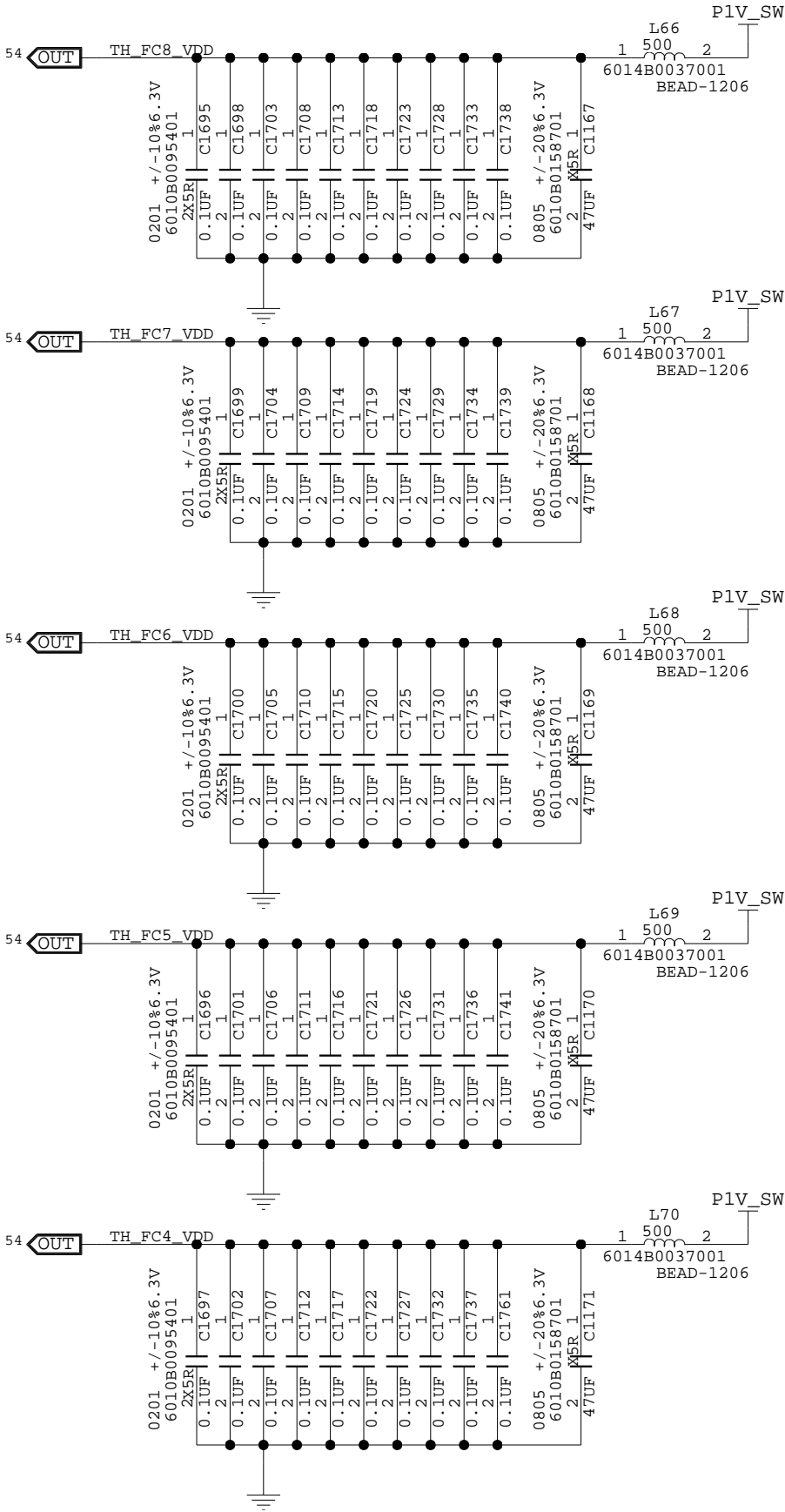
K-CS-1395A2737101-0-0

X01





BCM56960 - POWER FILTER

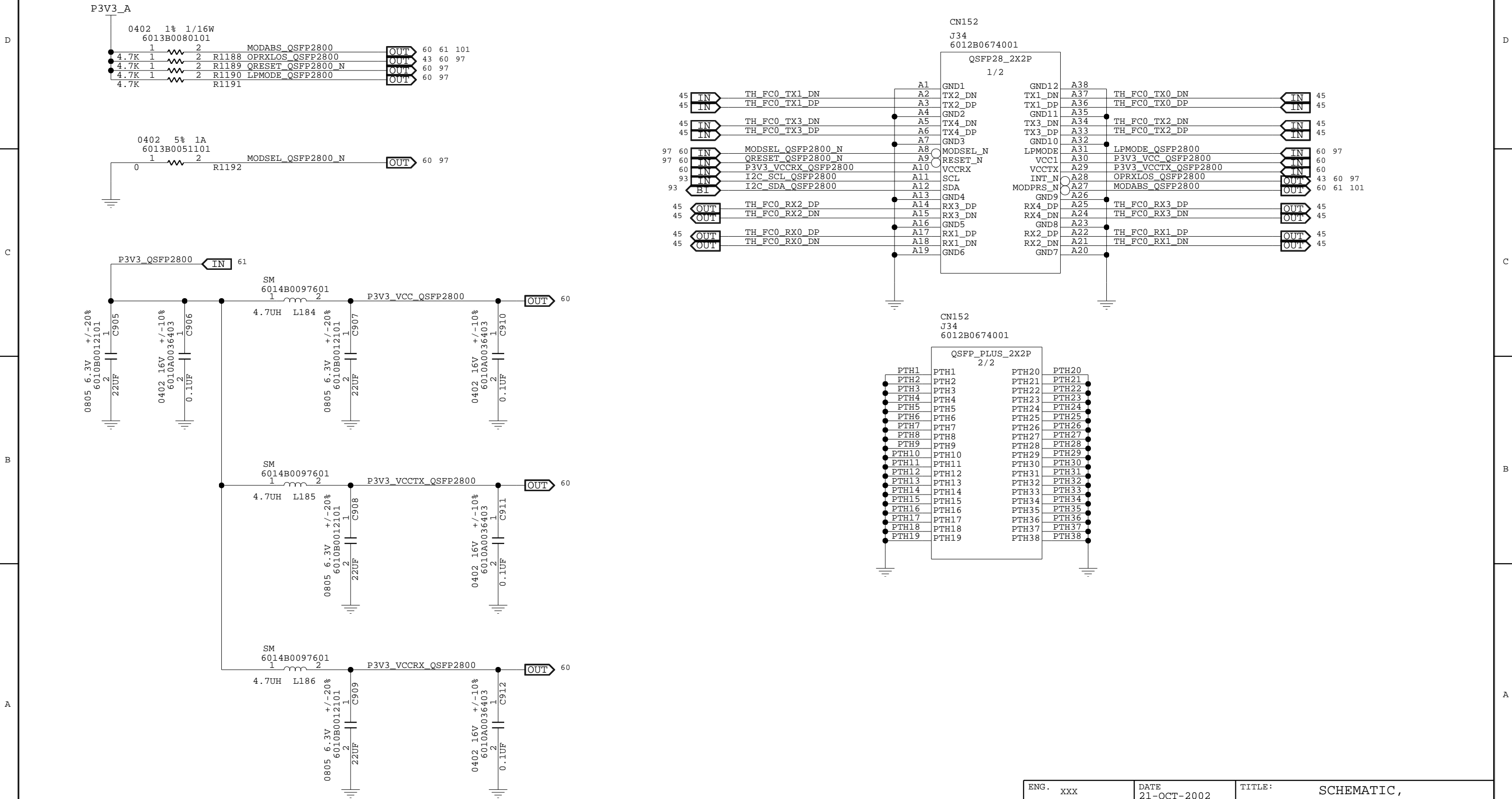


MODULE=SWITCH
FUNCTION=----

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,			
SHEET 58 OF 124		MODEL, PROJECT, FUNCTION			
Tue Mar 10 09:39:50 2015					
PCB NUMBER		REV	SIZE	DOCUMENT NUMBER	REV
6050A2737101		XXX	B	K-CS-1395A2737101-0-0	X01

QSFP28 CONN - PORT 17



MODULE=QSFP28
FUNCTION=PORT 00

INVENTEC CONFIDENTIAL DO NOT COPY			ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
			SHEET 60 OF 124	Thu Mar 19 10:36:22 2015			
			PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 CONN - PORT 18

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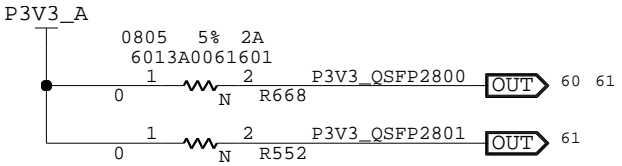
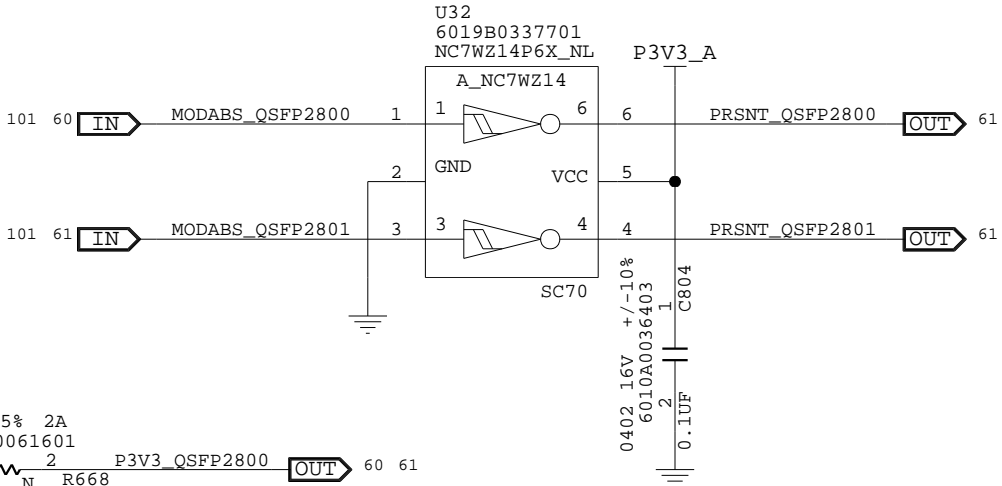
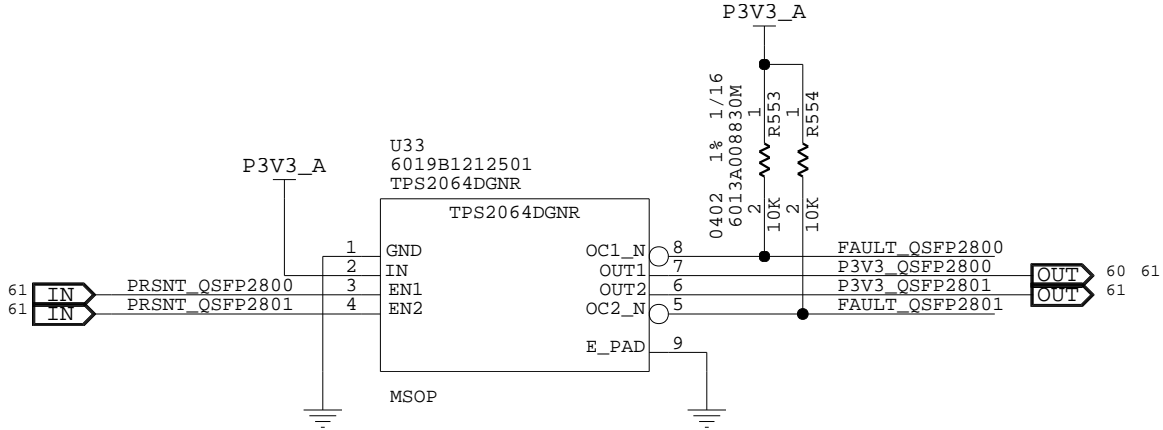
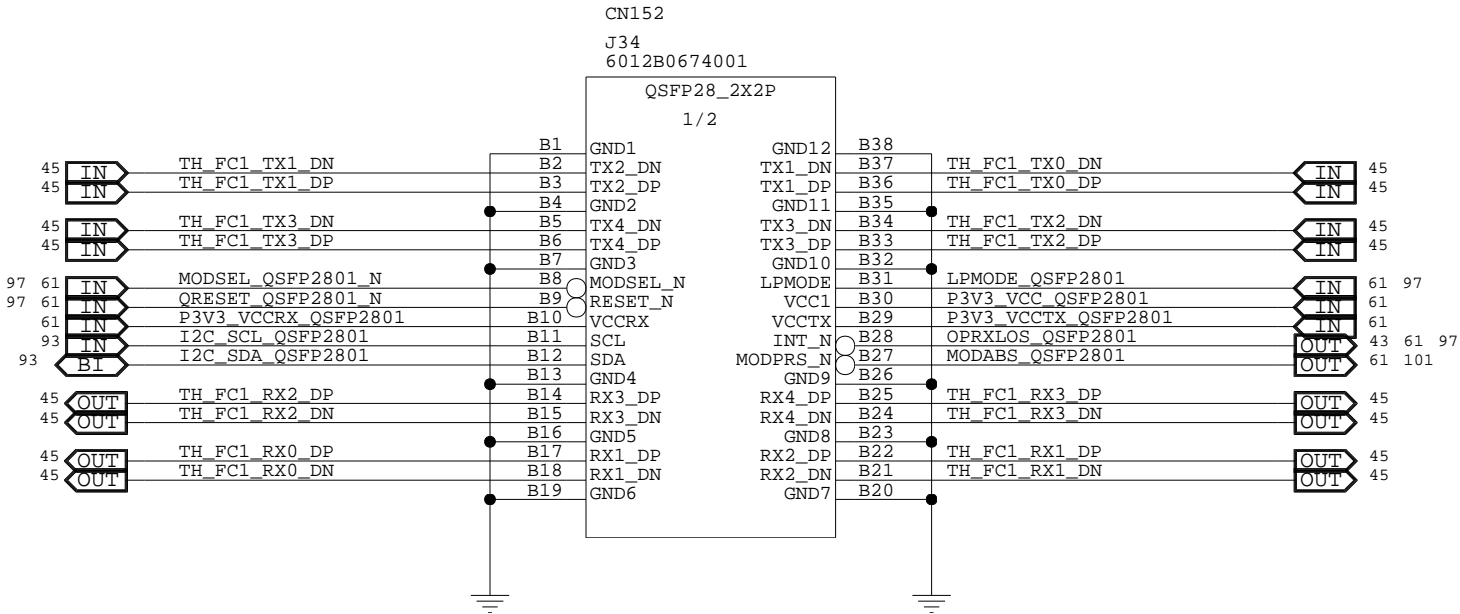
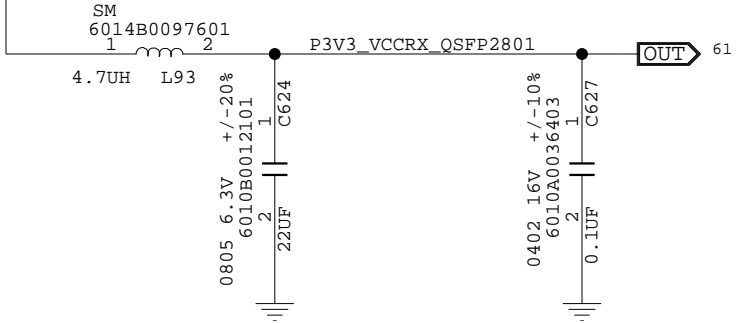
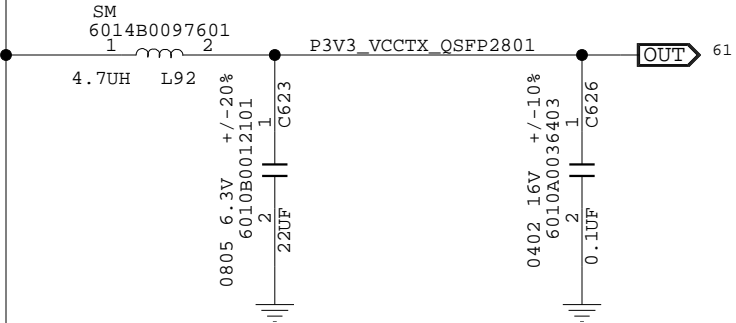
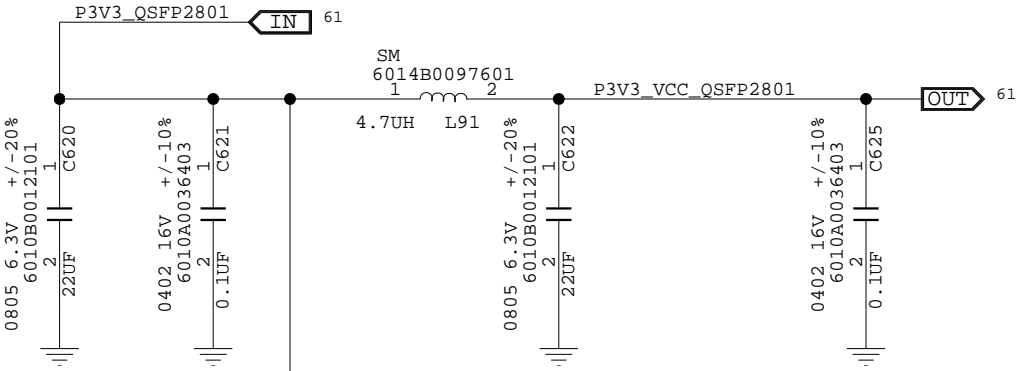
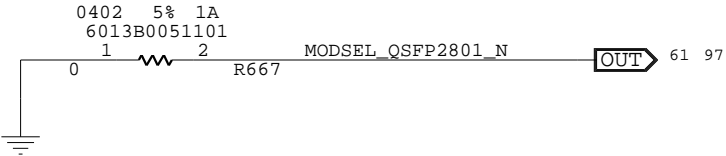
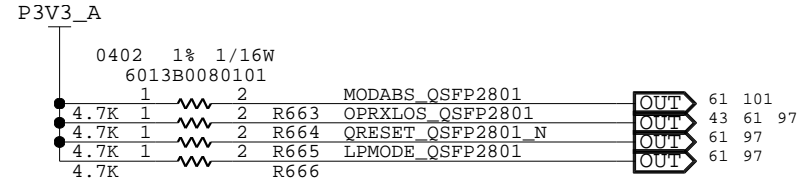
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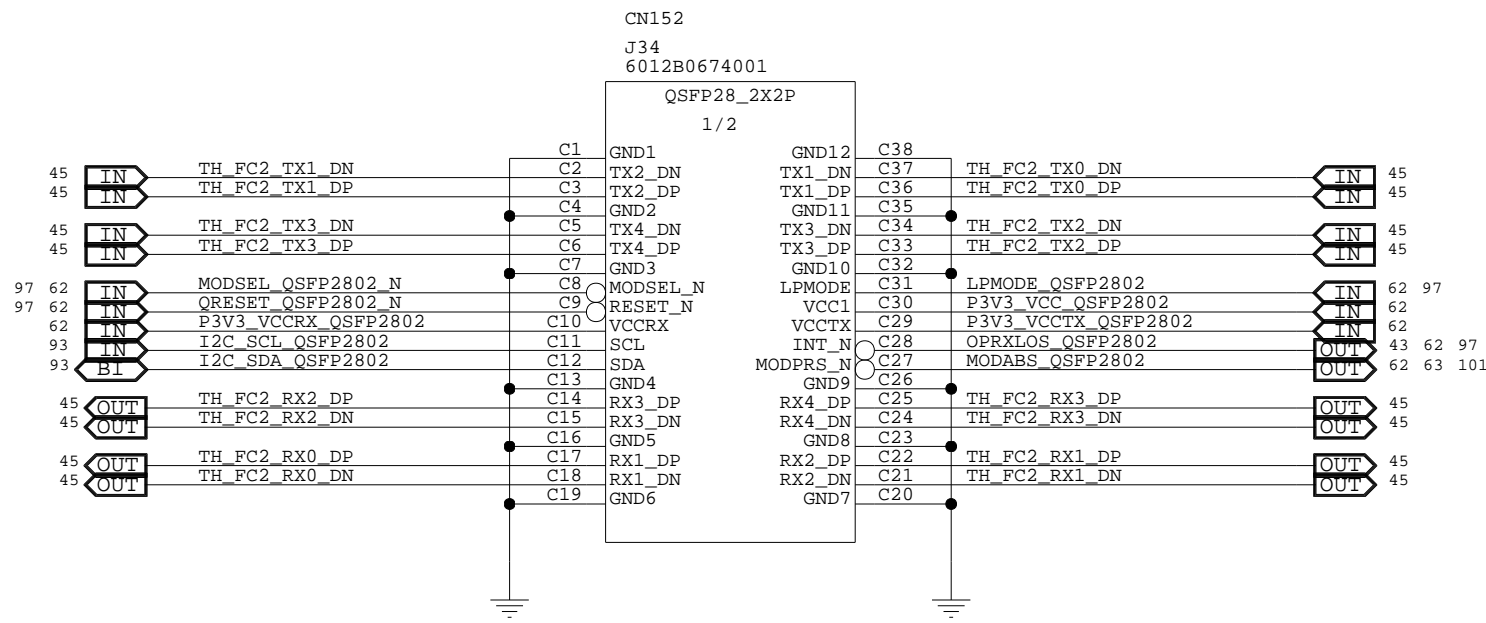
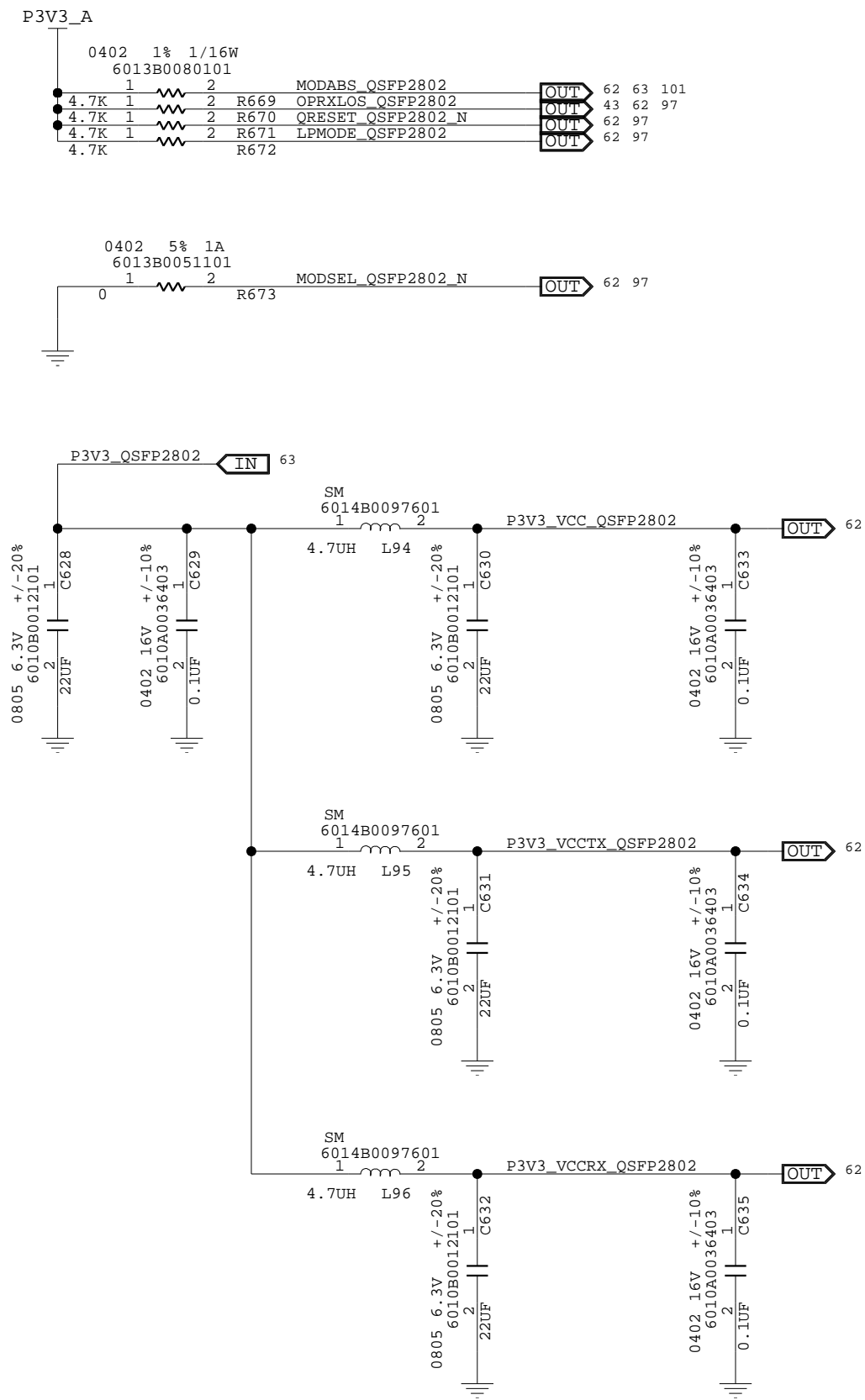
MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

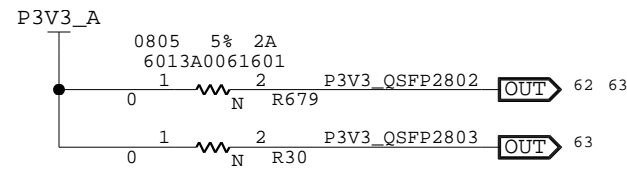
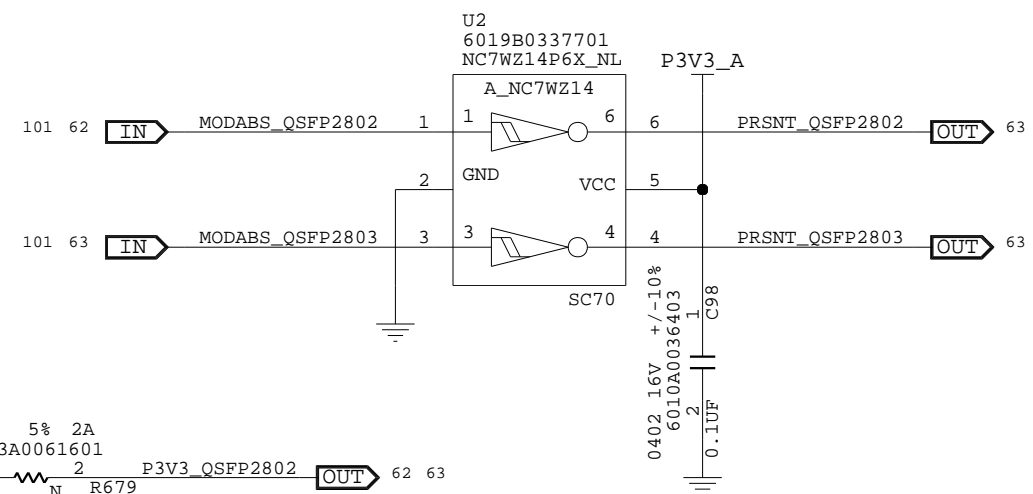
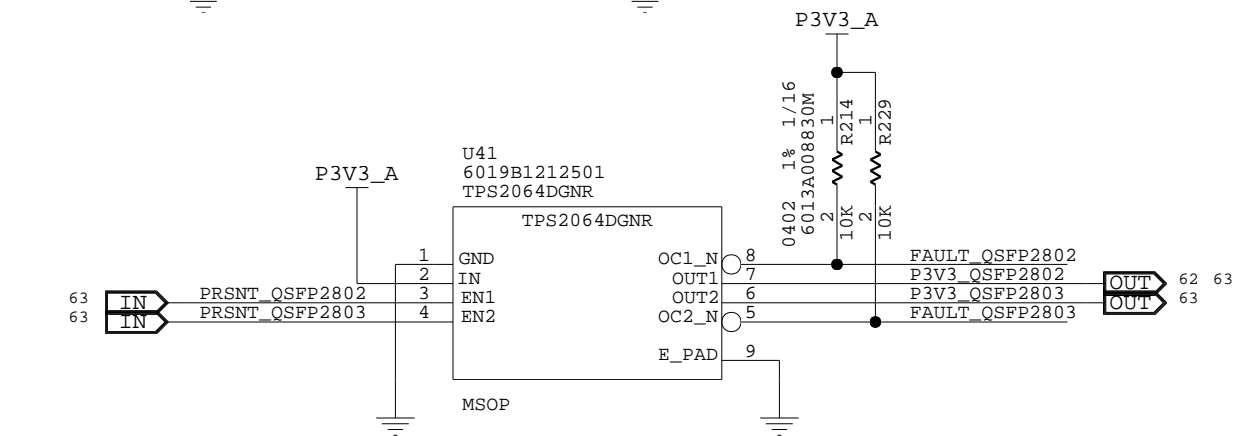
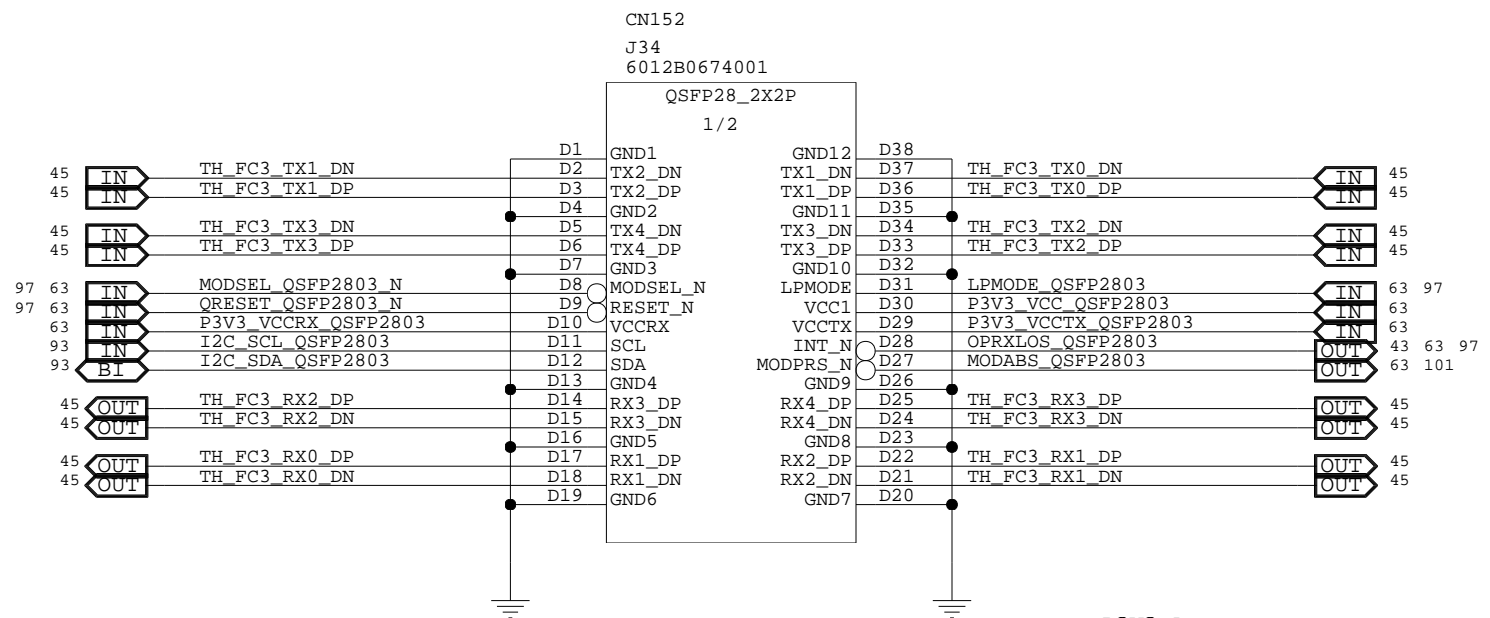
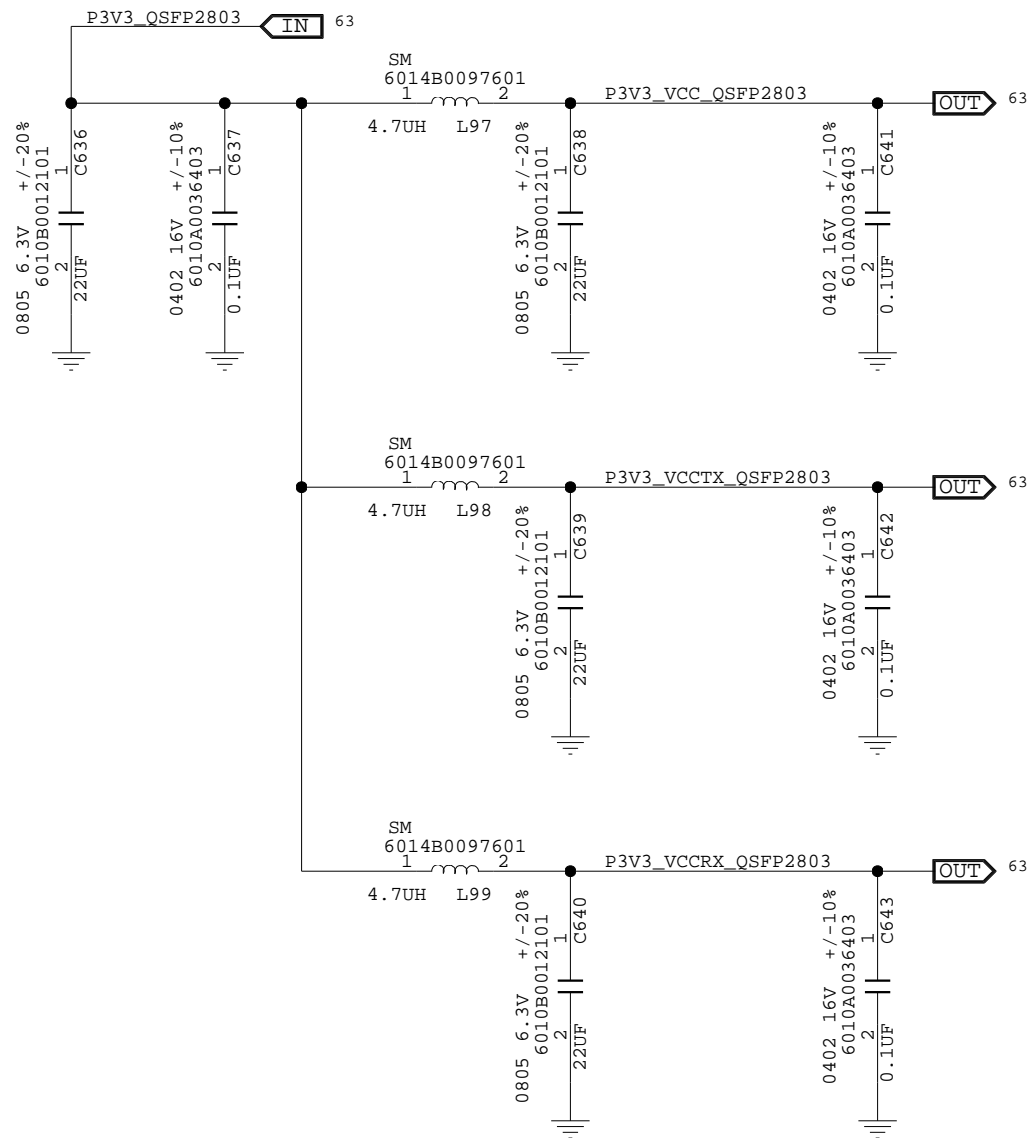
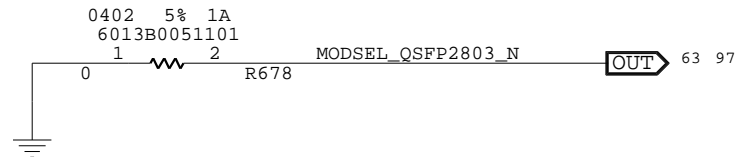
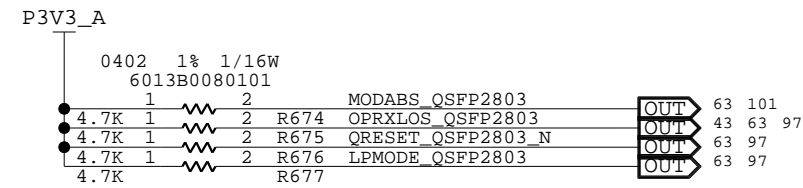
ENG. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 61 OF 124							
Thu Mar 19 10:36:28 2015							
PCB NUMBER 6050A2737101			REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01



QSFP28 CONN - PORT 19



QSFP28 CONN - PORT 20

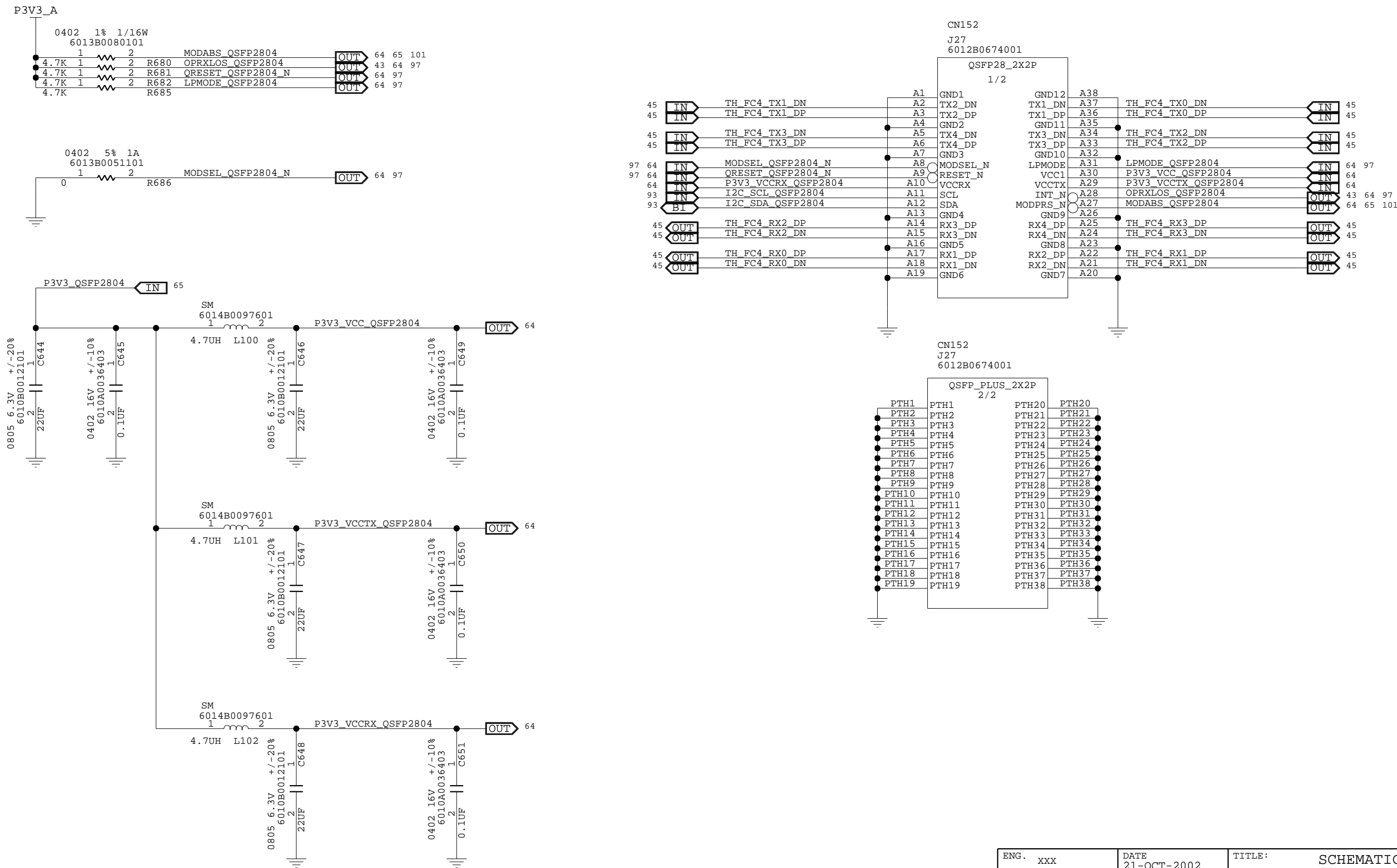


MODULE=QSFP28
FUNCTION=---

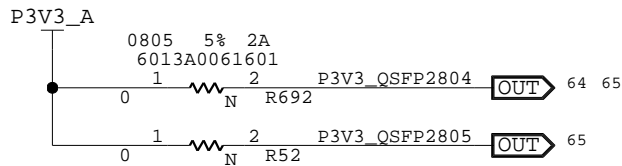
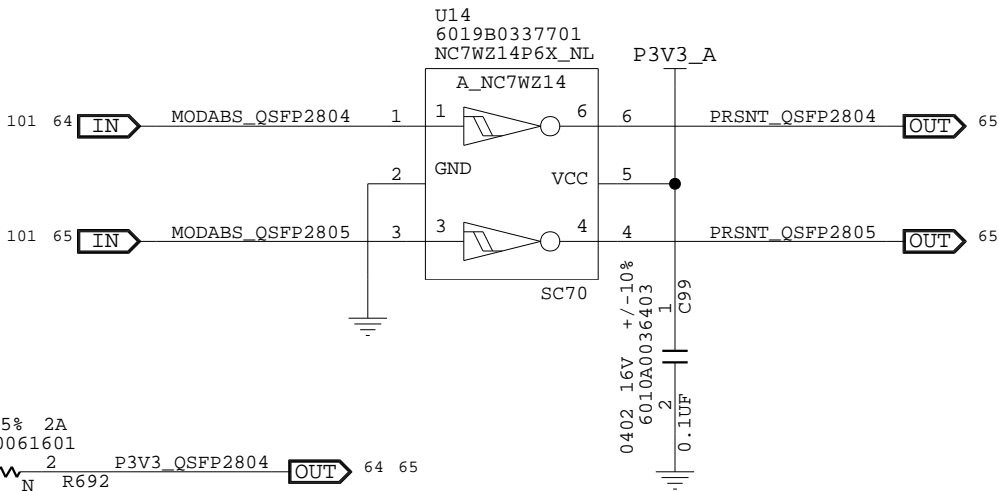
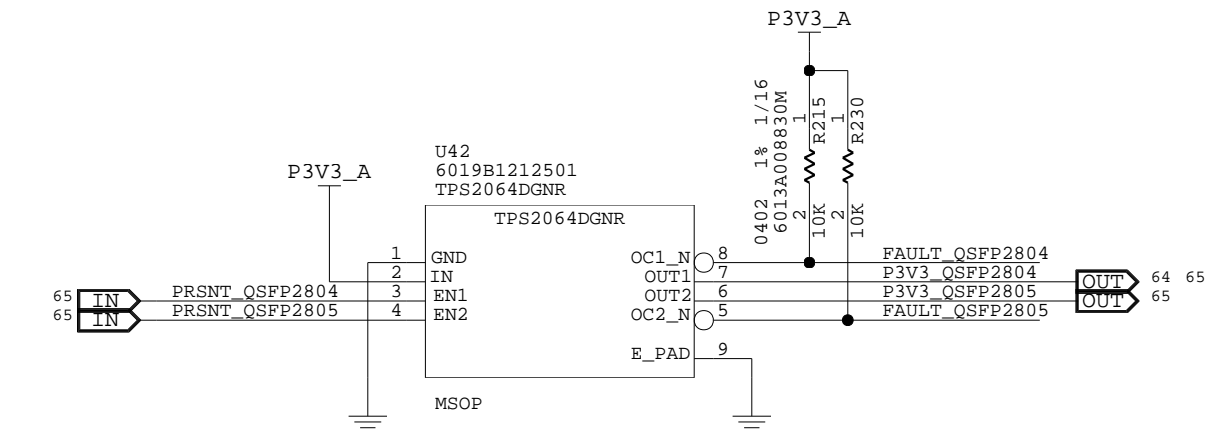
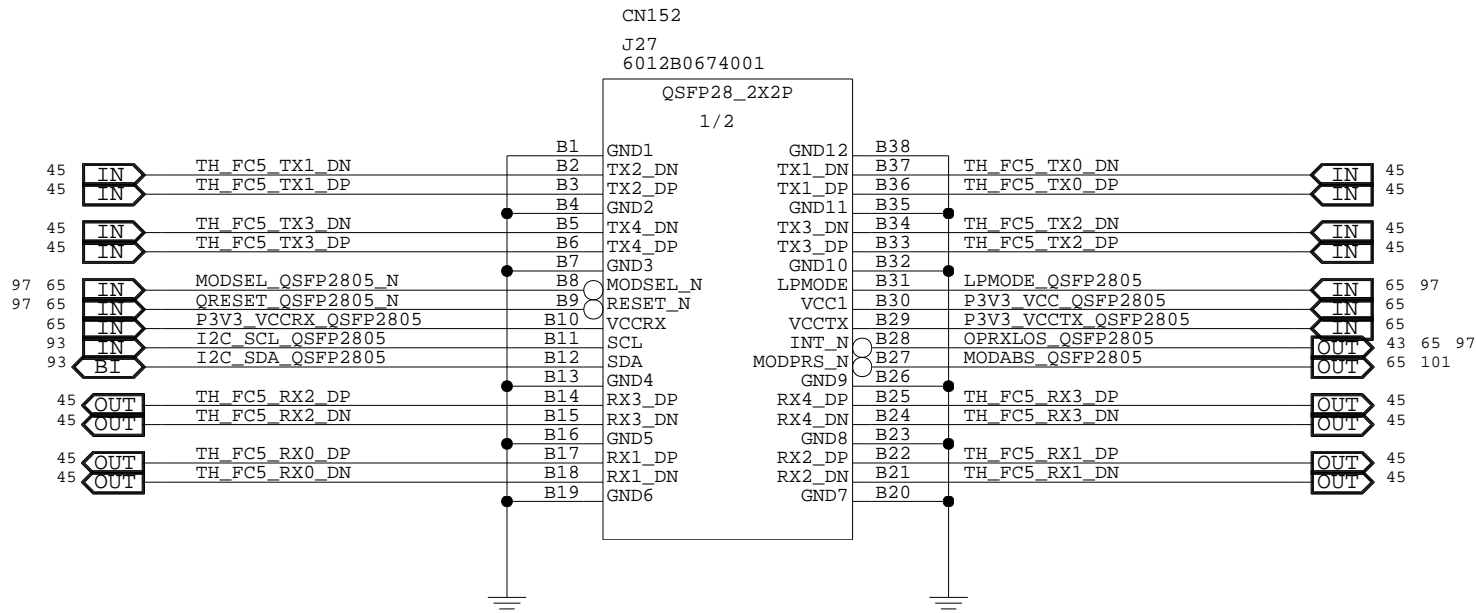
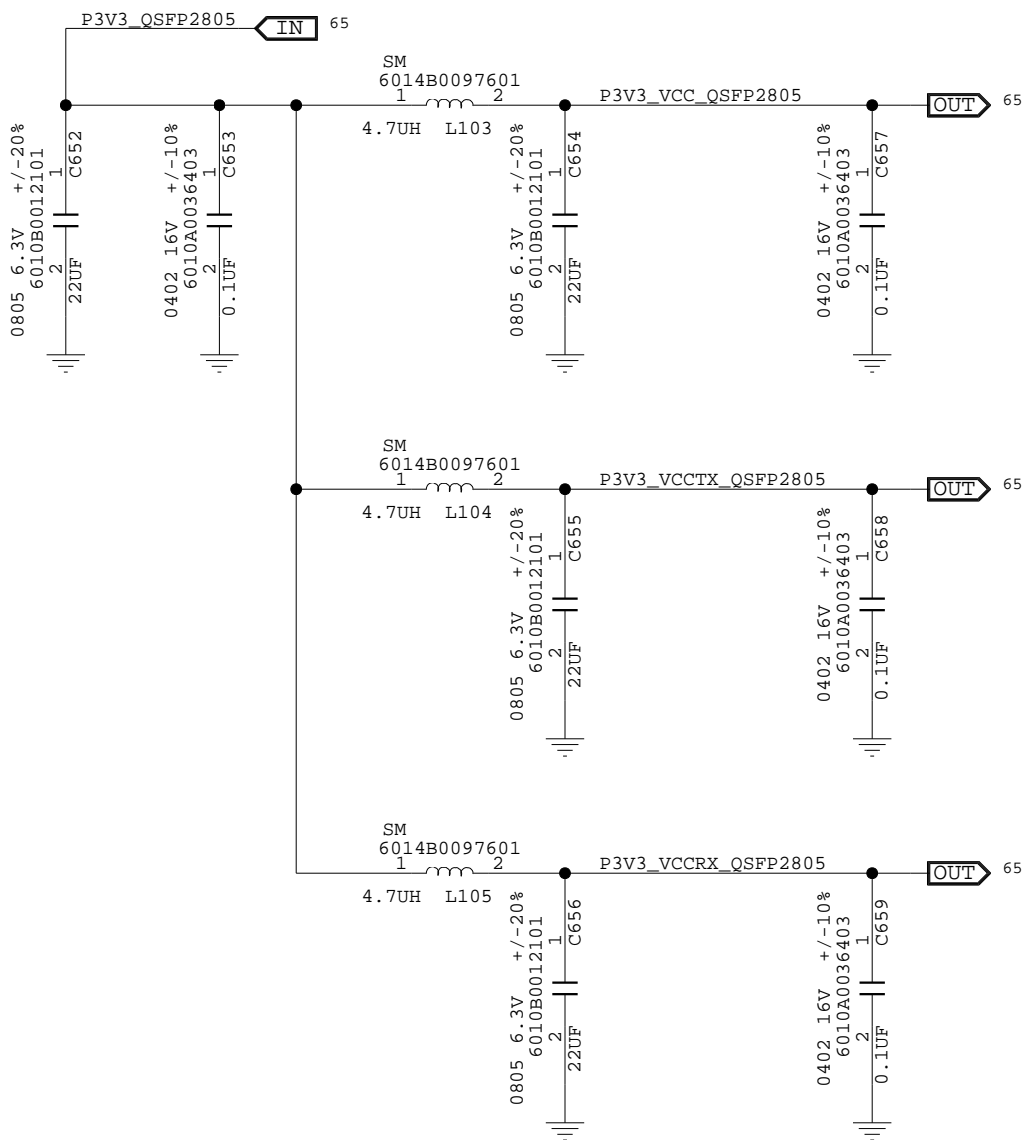
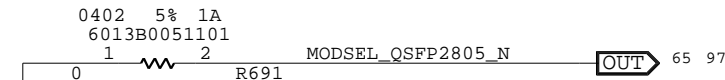
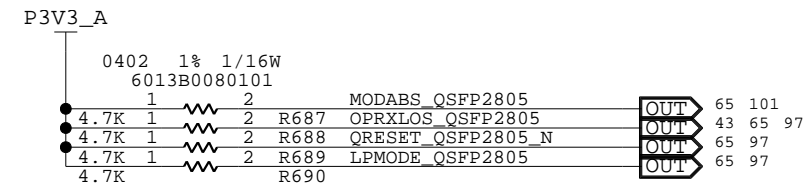
INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION			
SHEET 63 OF 124	Thu Mar 19 10:36:40 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

QSFP28 CONN - PORT 21



QSFP28 CONN - PORT 22

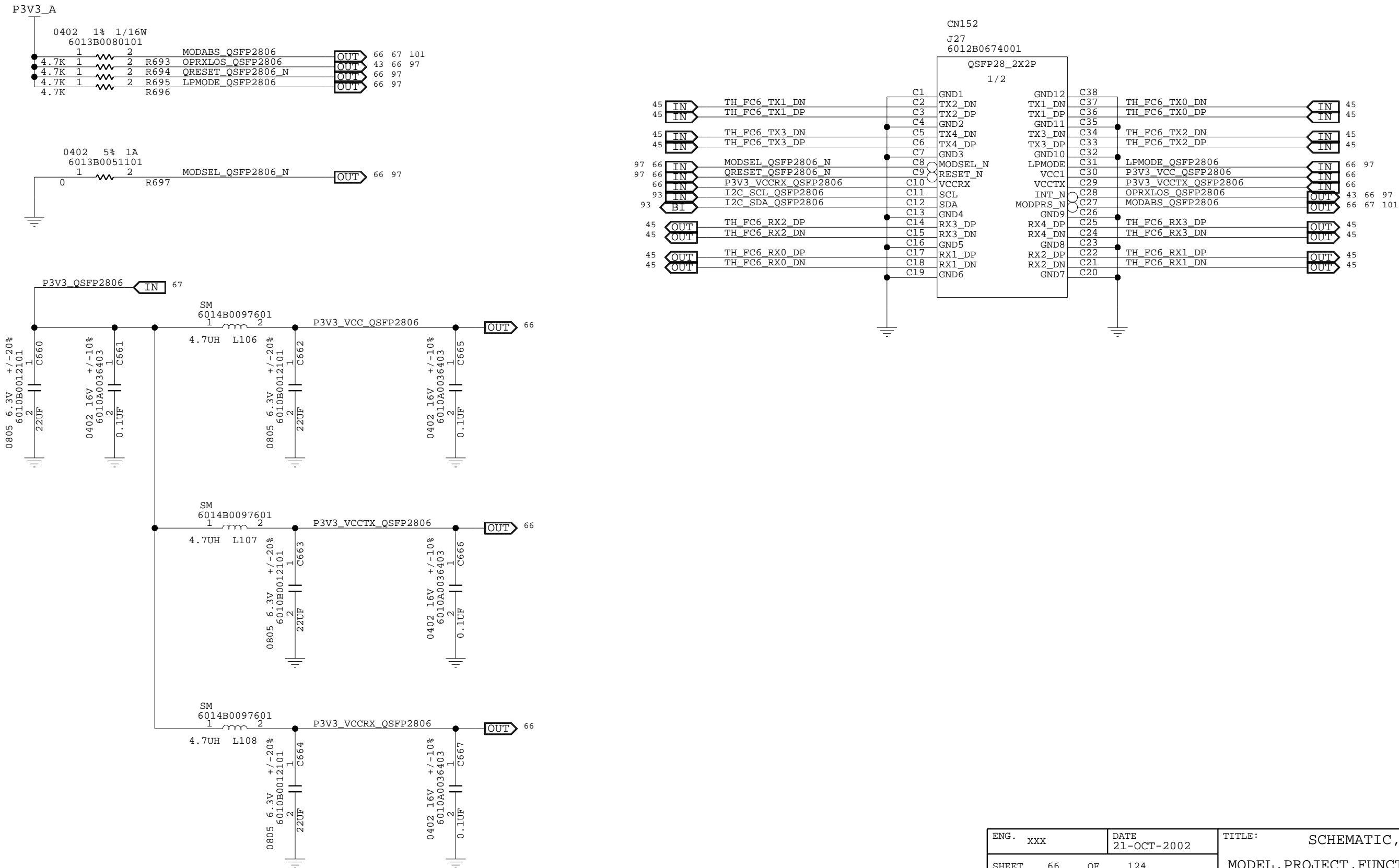


MODULE=QSFP28

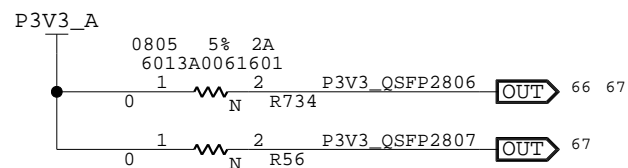
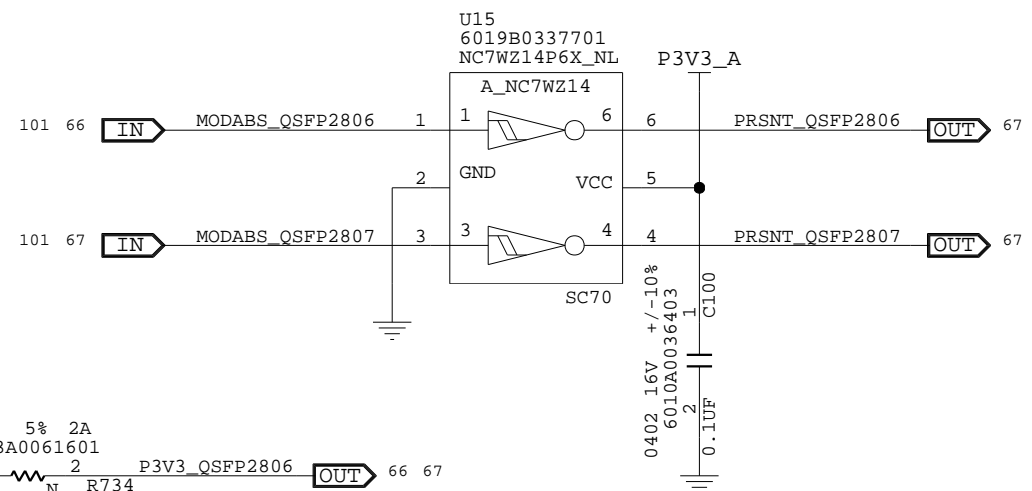
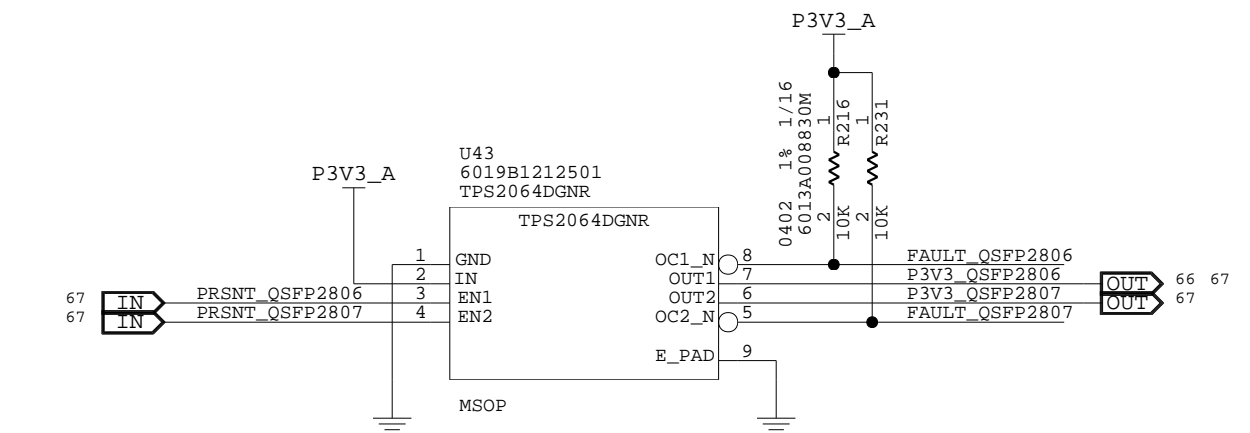
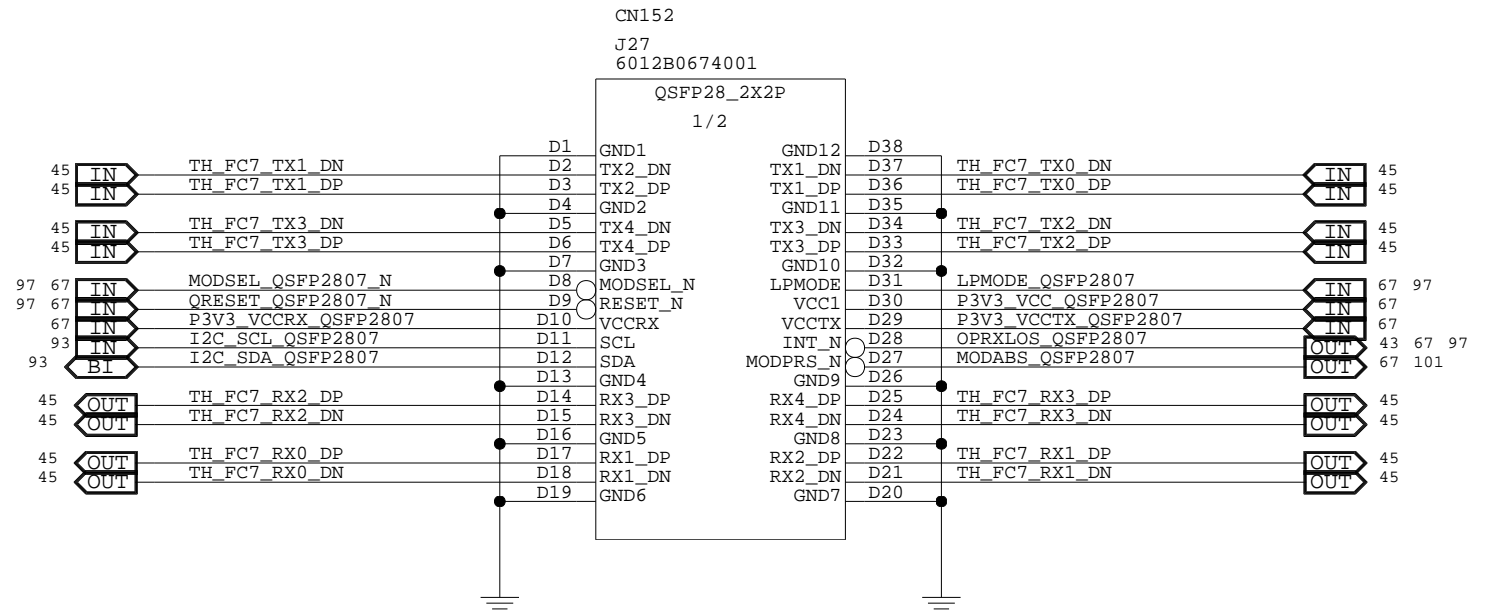
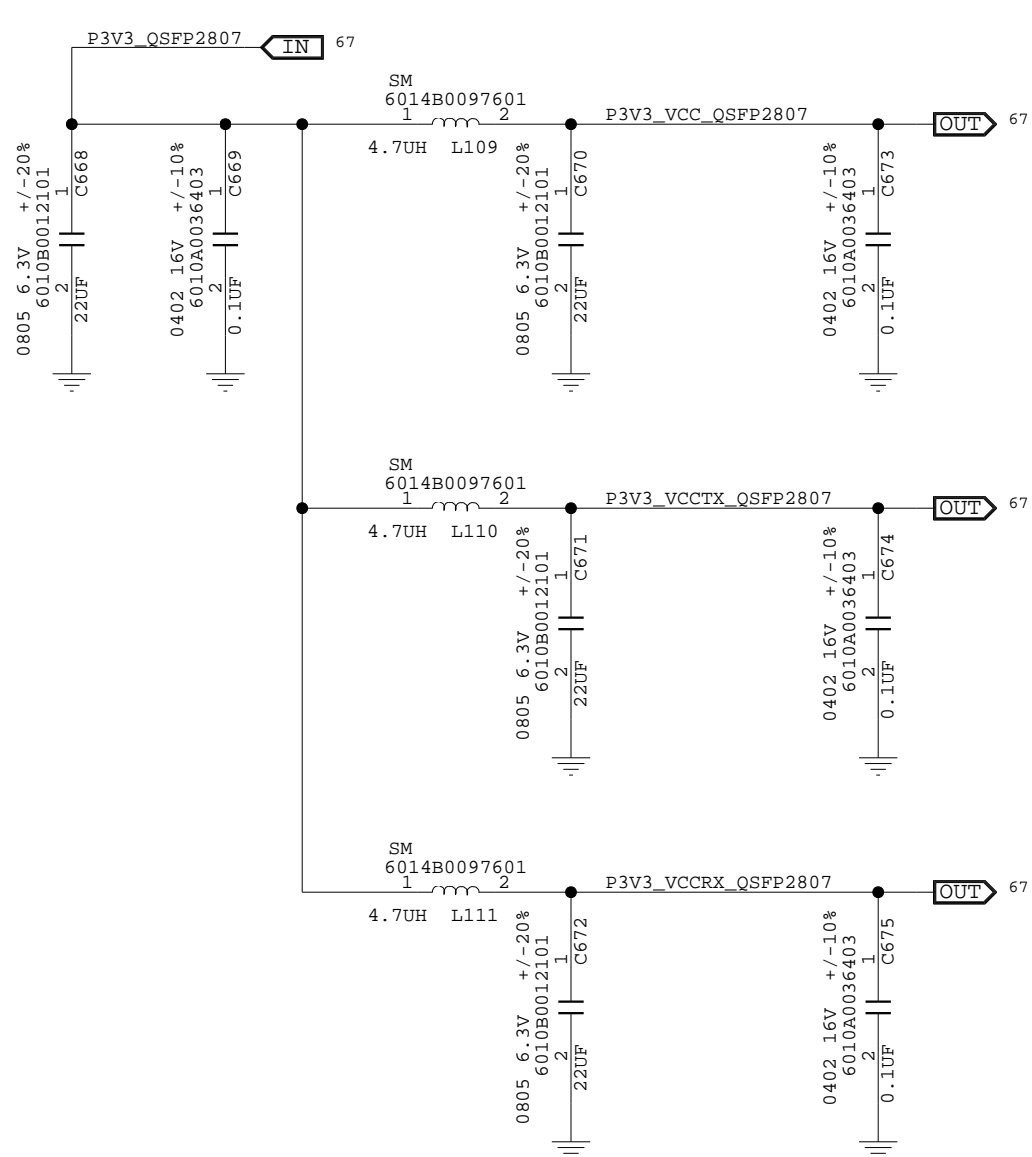
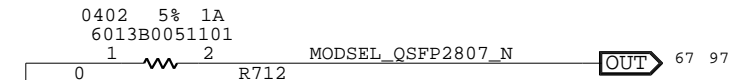
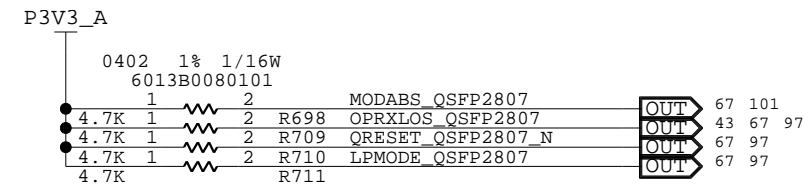
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY		ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
		SHEET 65 OF 124	Thu Mar 19 10:36:51 2015			
		PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 CONN - PORT 23



QSFP28 CONN - PORT 24

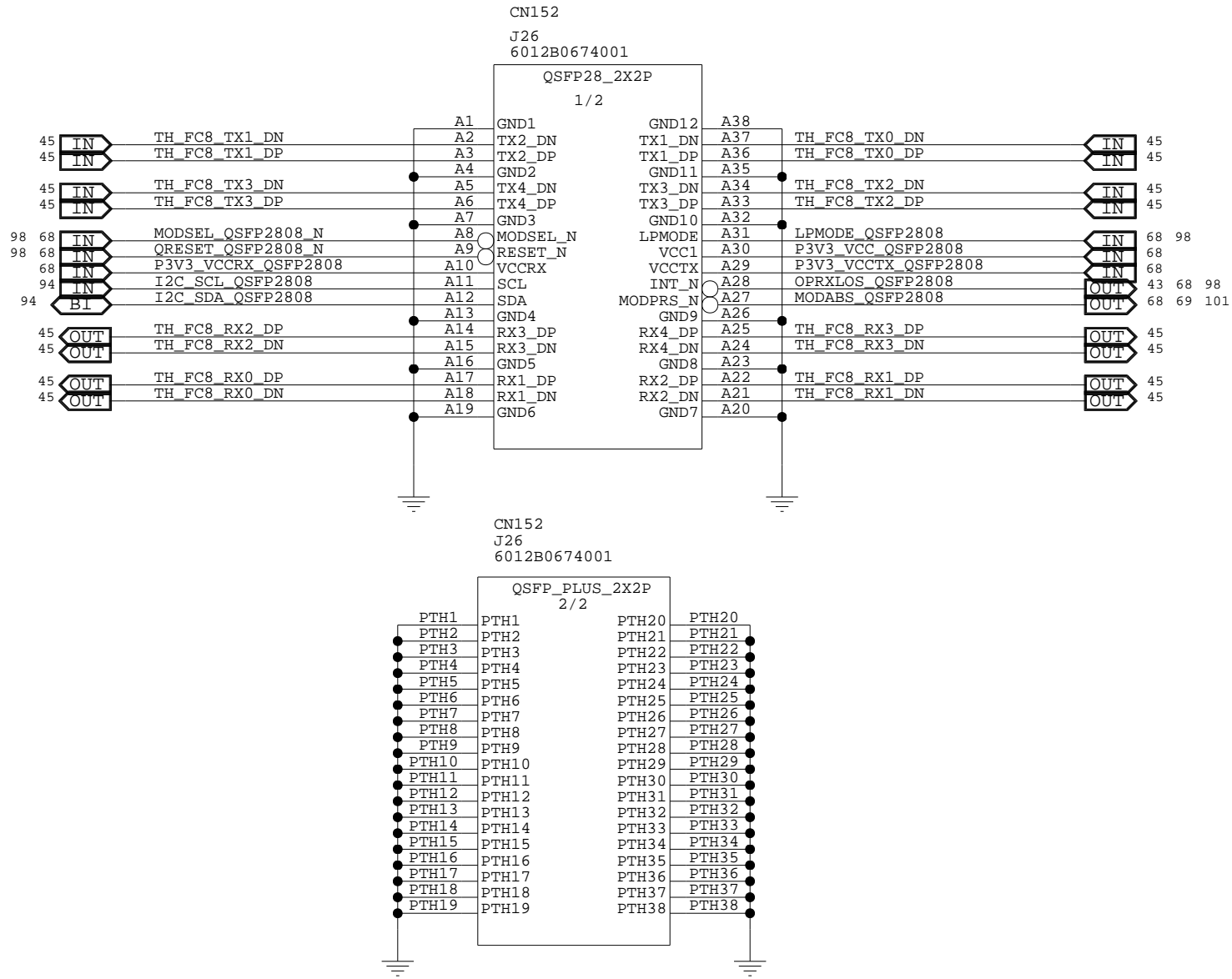
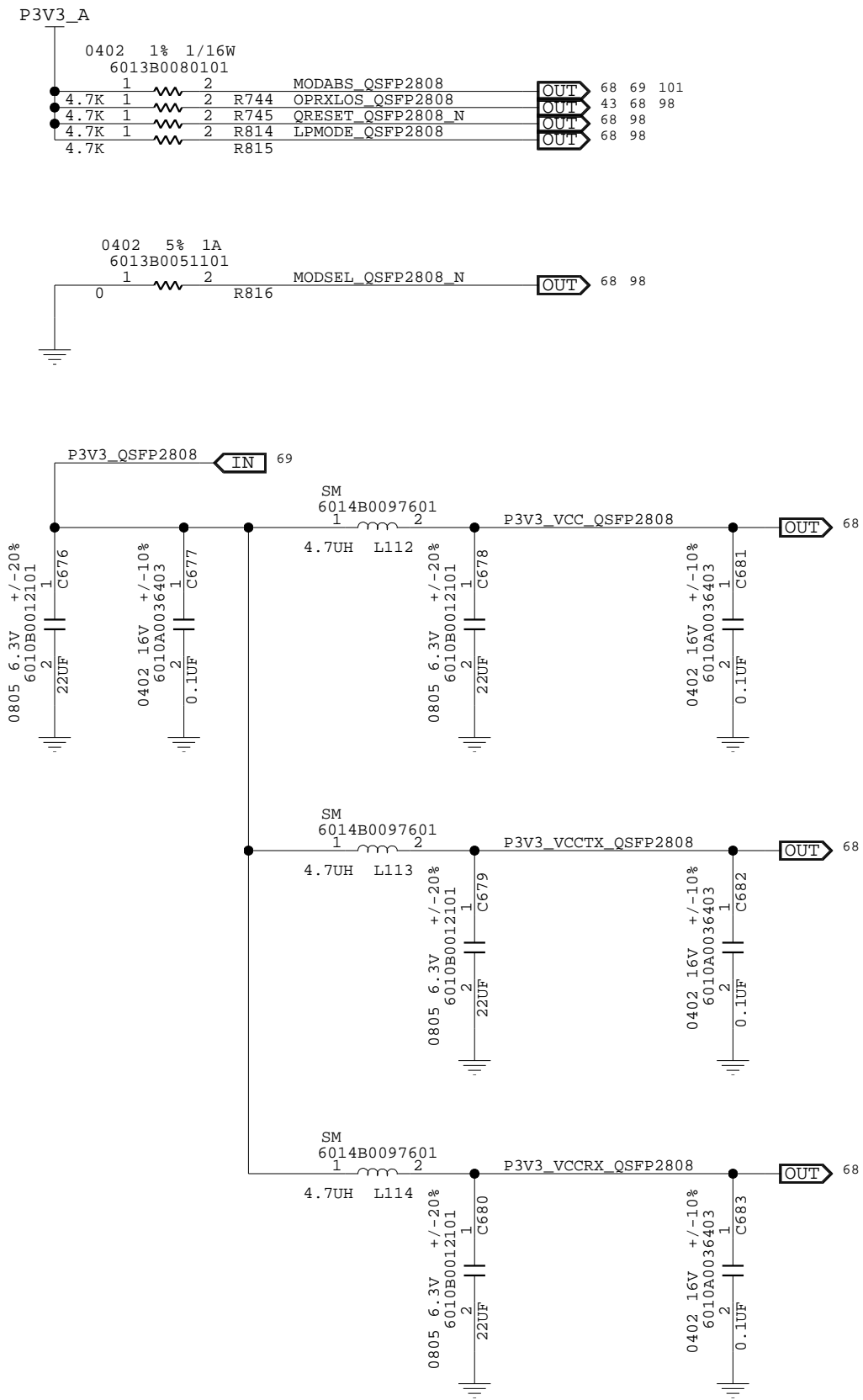


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MODULE=QSFP28
FUNCTION=---
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INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION		
SHEET 67 OF 124				
Thu Mar 19 10:37:03 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 CONN - PORT 25

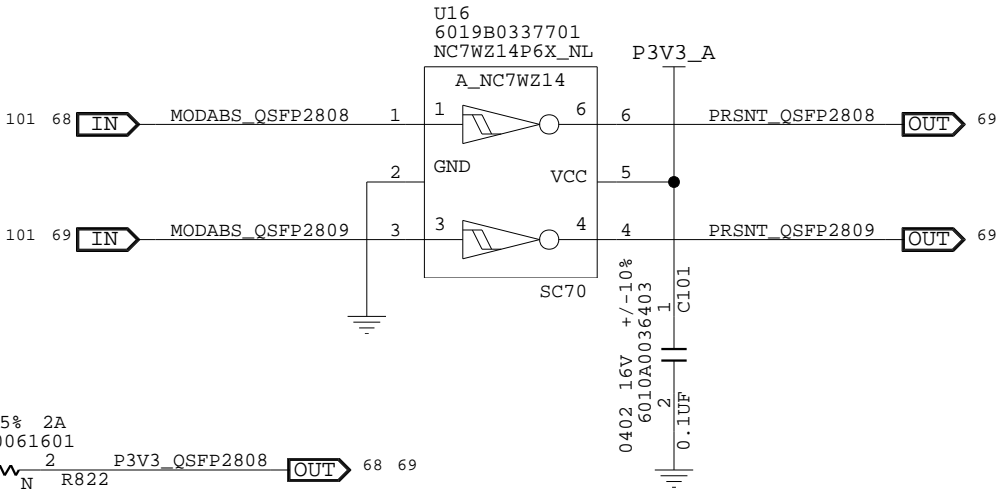
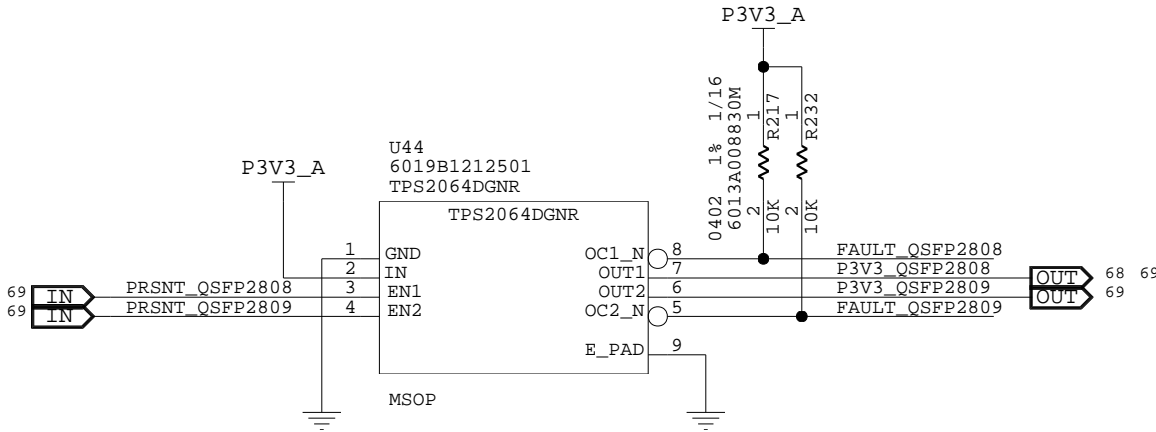
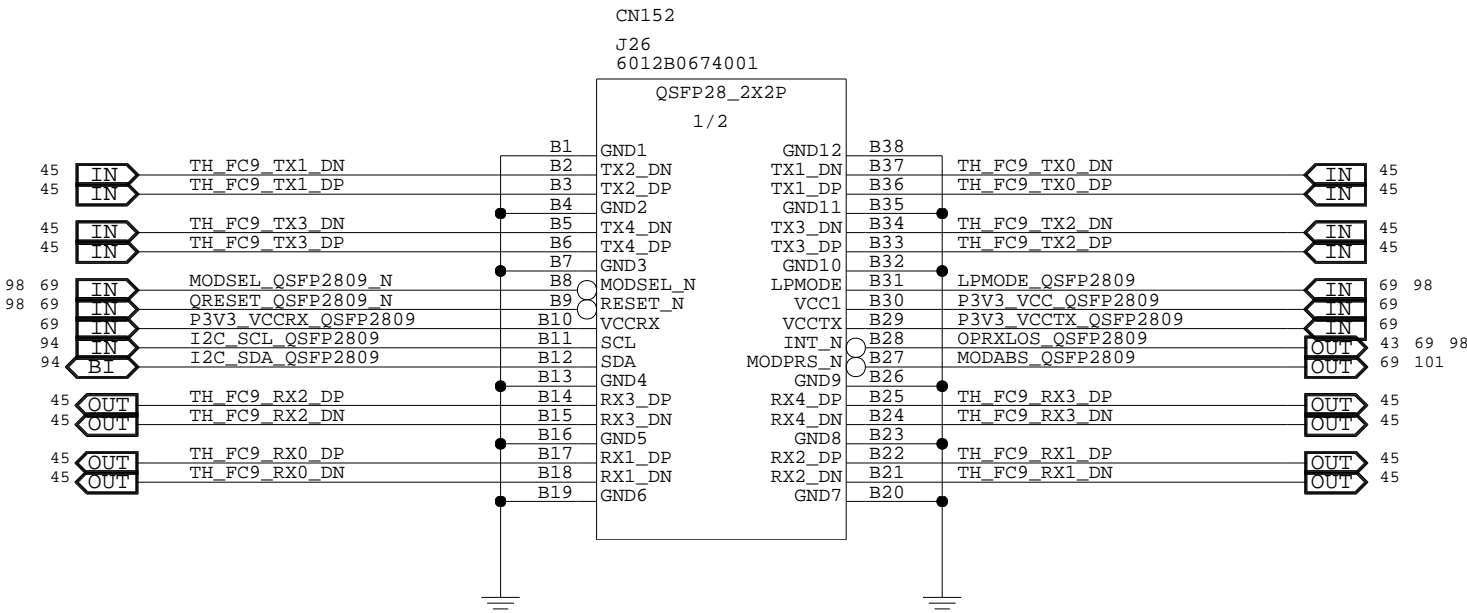
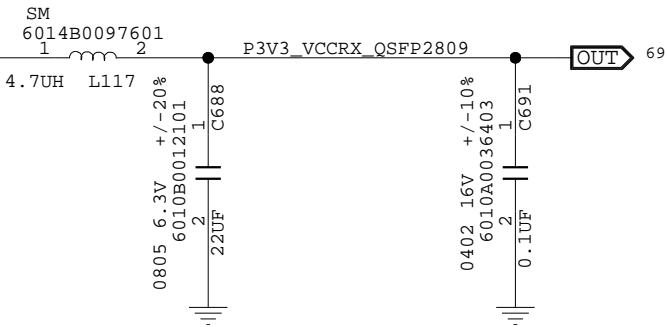
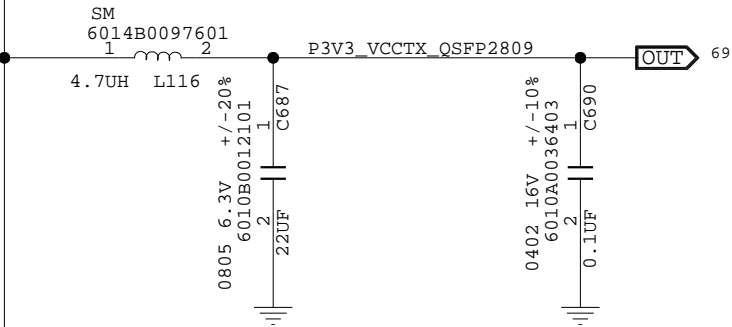
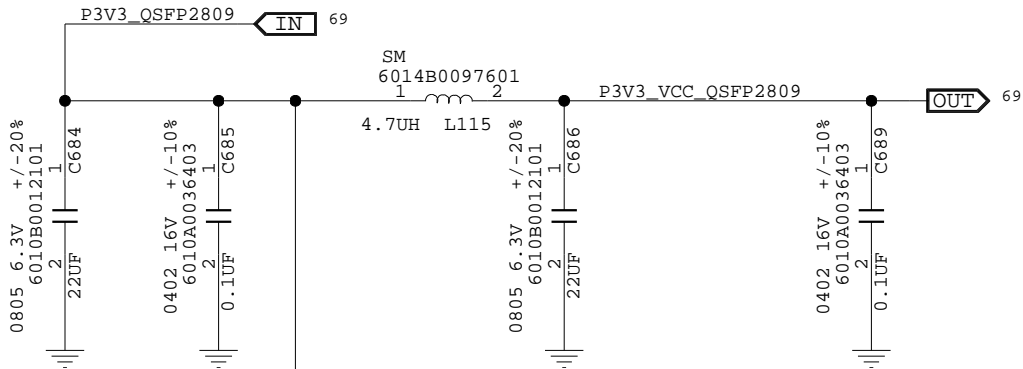
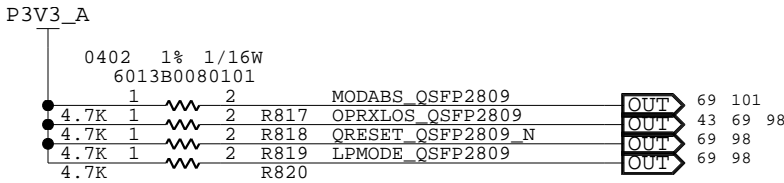


MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
SHEET 68 OF 124						
Thu Mar 19 10:37:09 2015						
PCB NUMBER 6050A2737101			REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 CONN - PORT 26



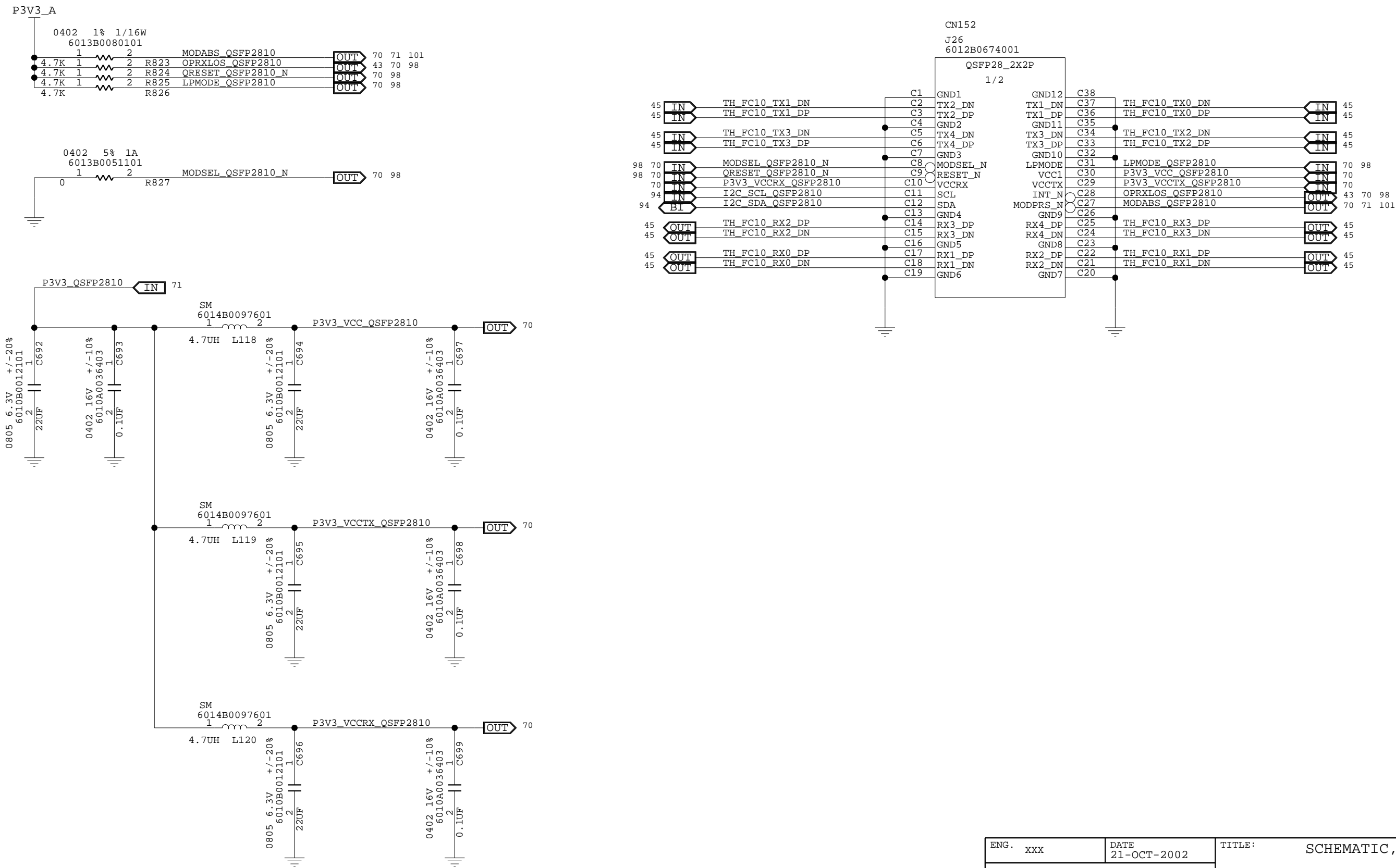
MODULE=QSFP28

FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,			
SHEET 69 OF 124	Thu Mar 19 10:37:15 2015	MODEL, PROJECT, FUNCTION			
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

QSFP28 CONN - PORT 27



QSFP28 CONN - PORT 28

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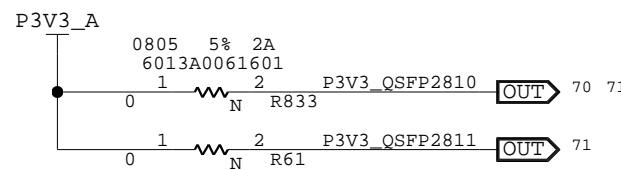
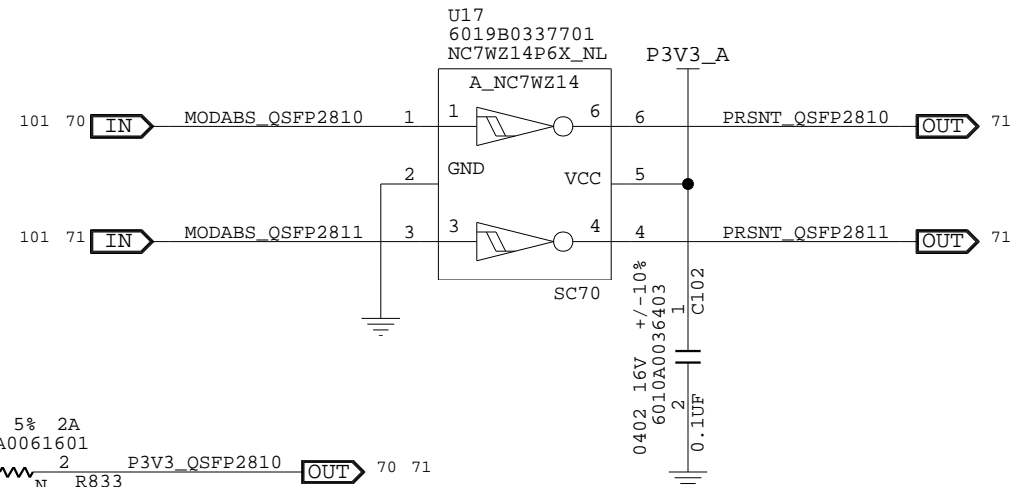
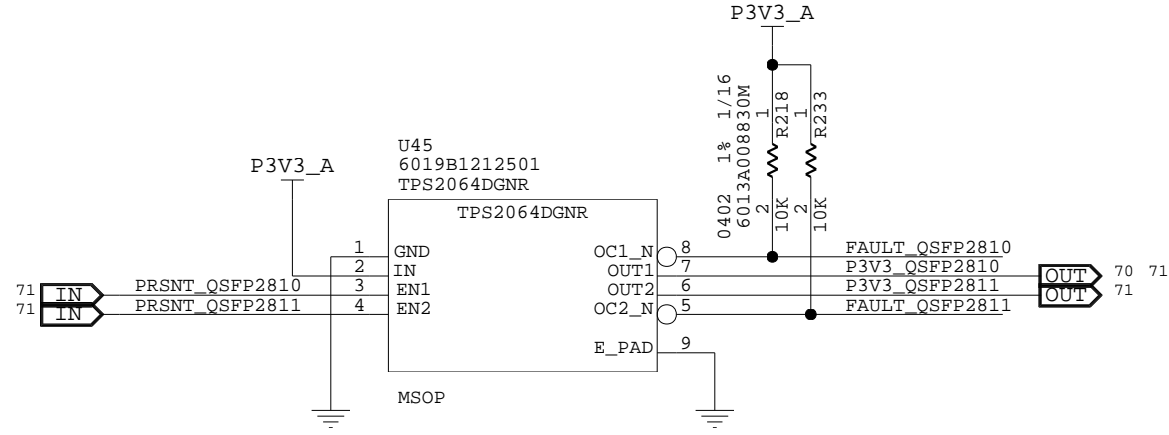
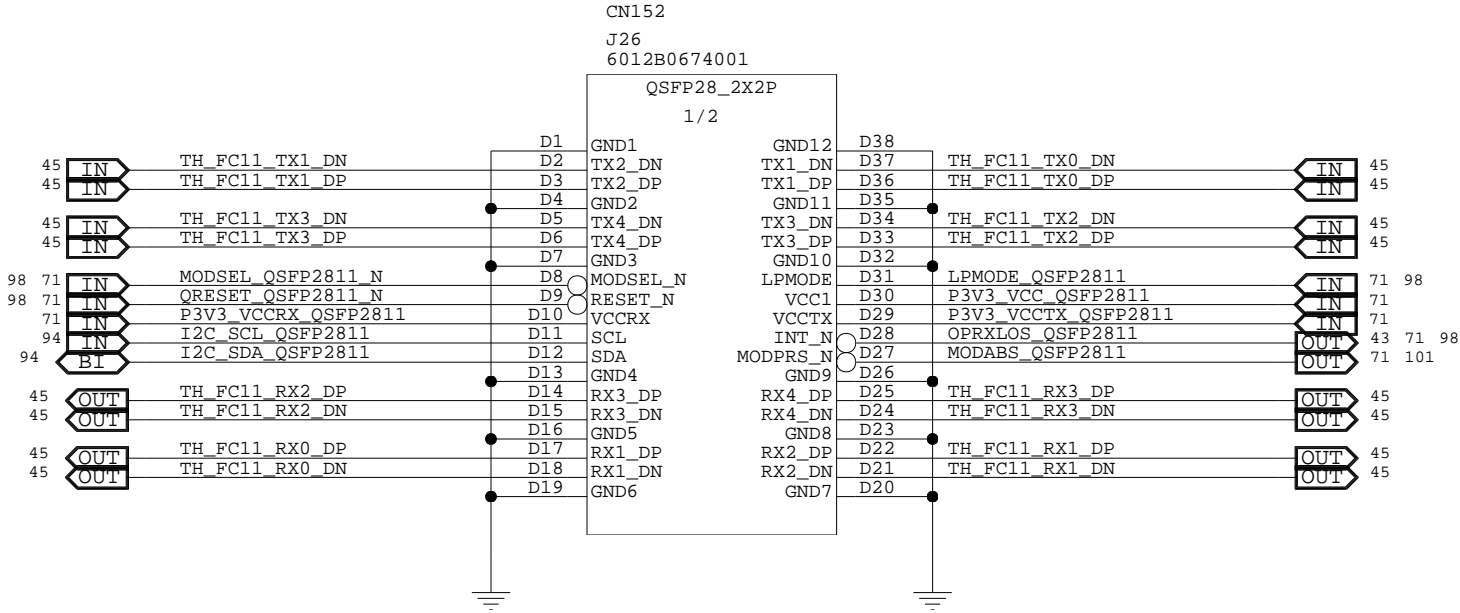
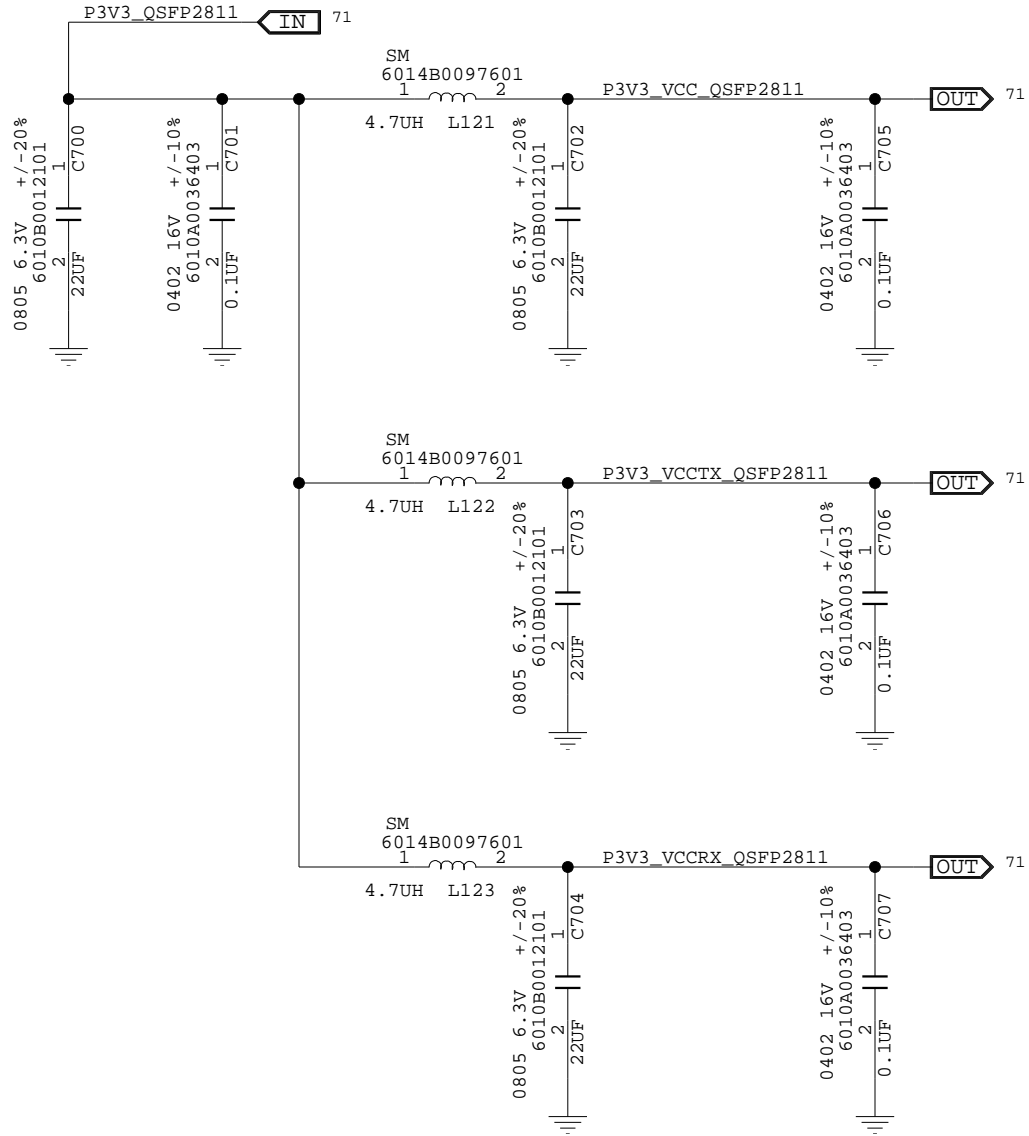
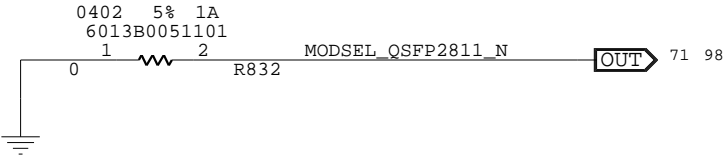
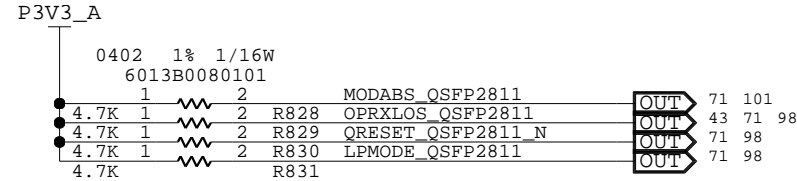
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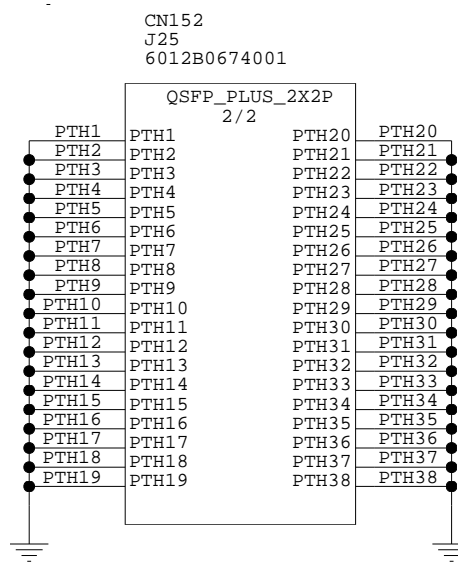
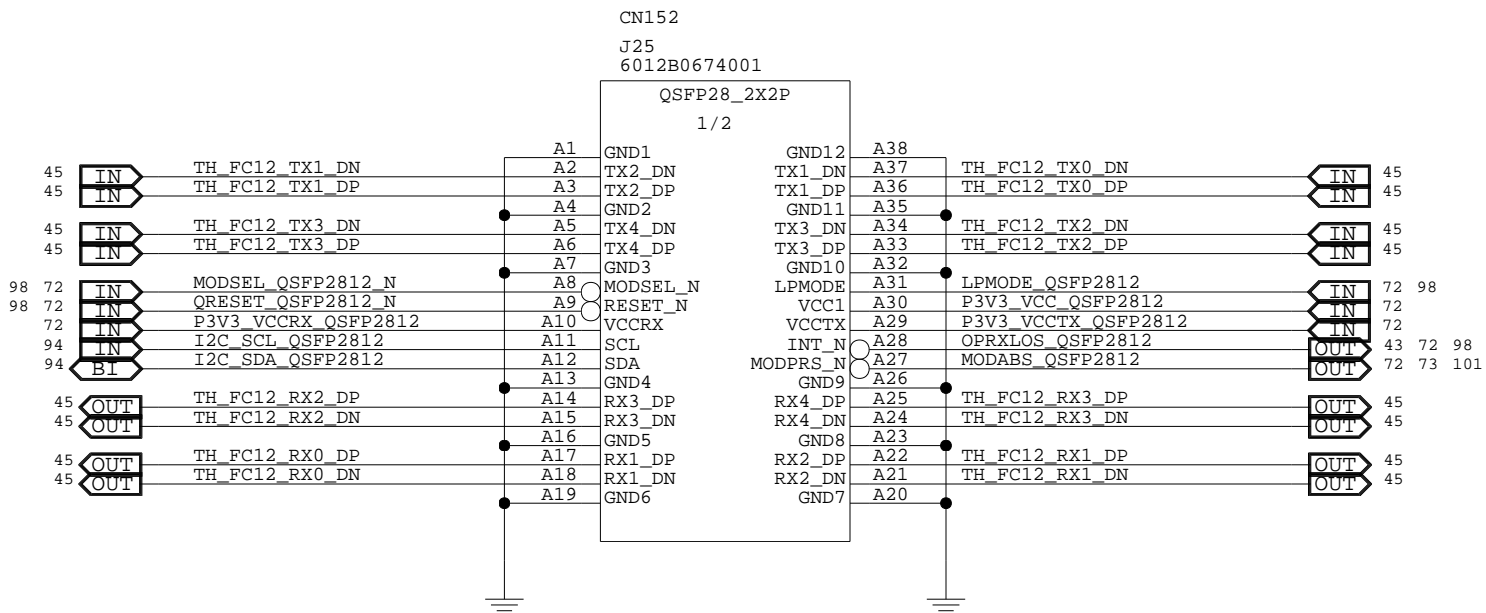
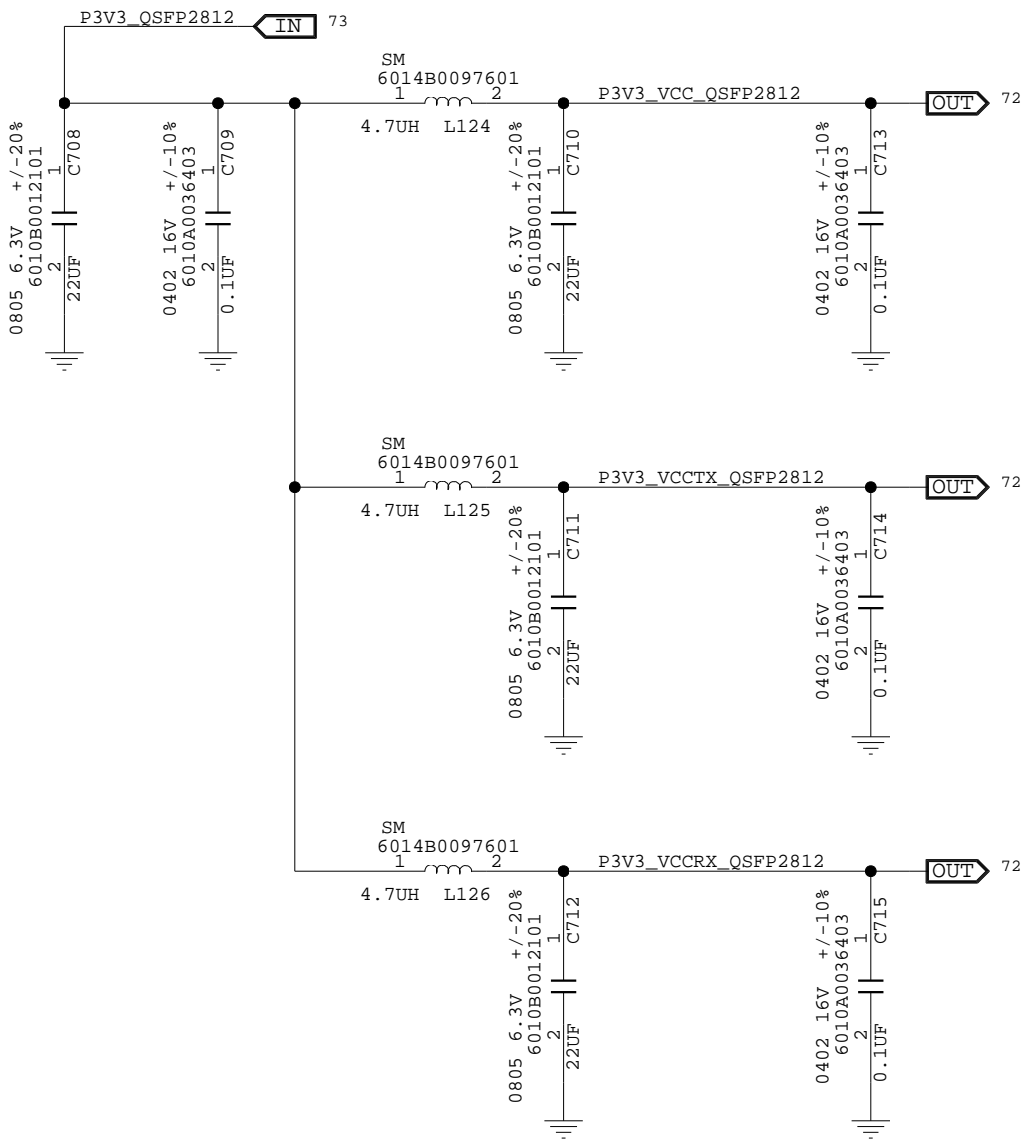
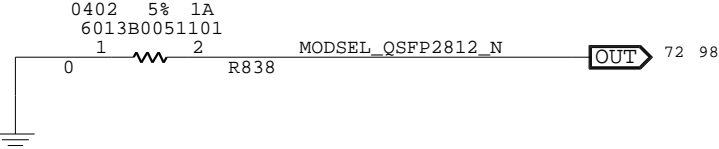
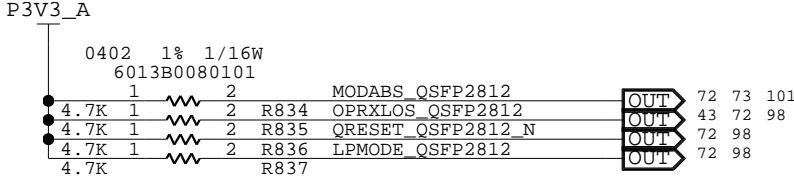


MODULE=QSFP28
FUNCTION=---

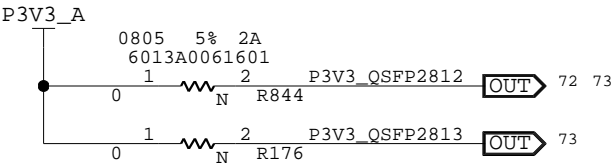
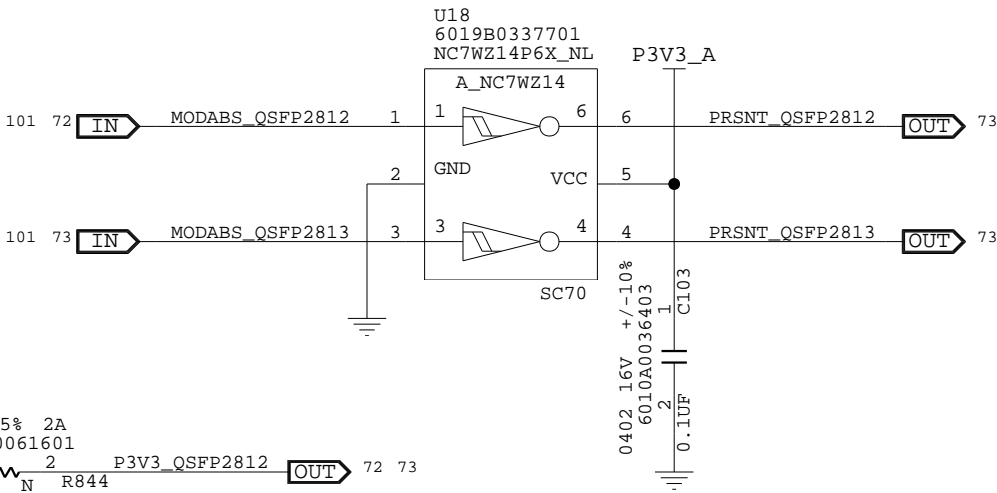
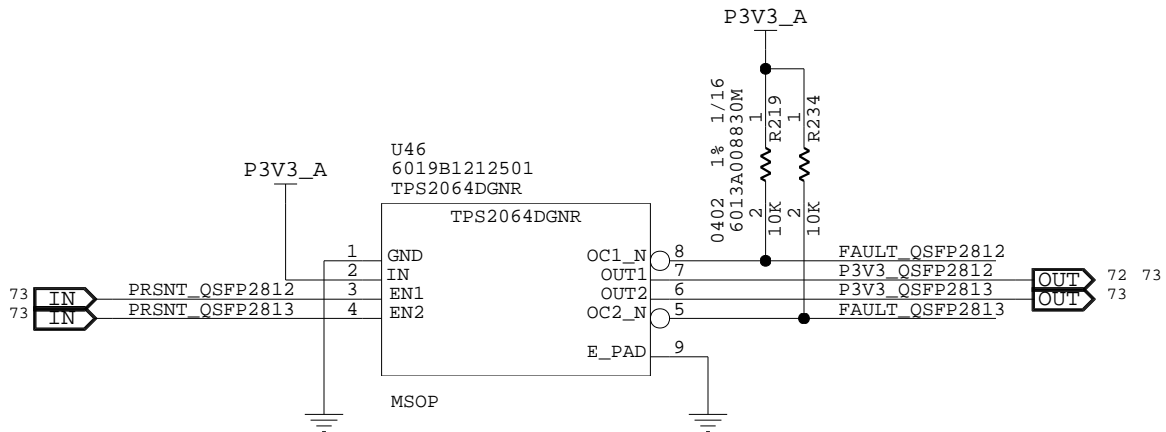
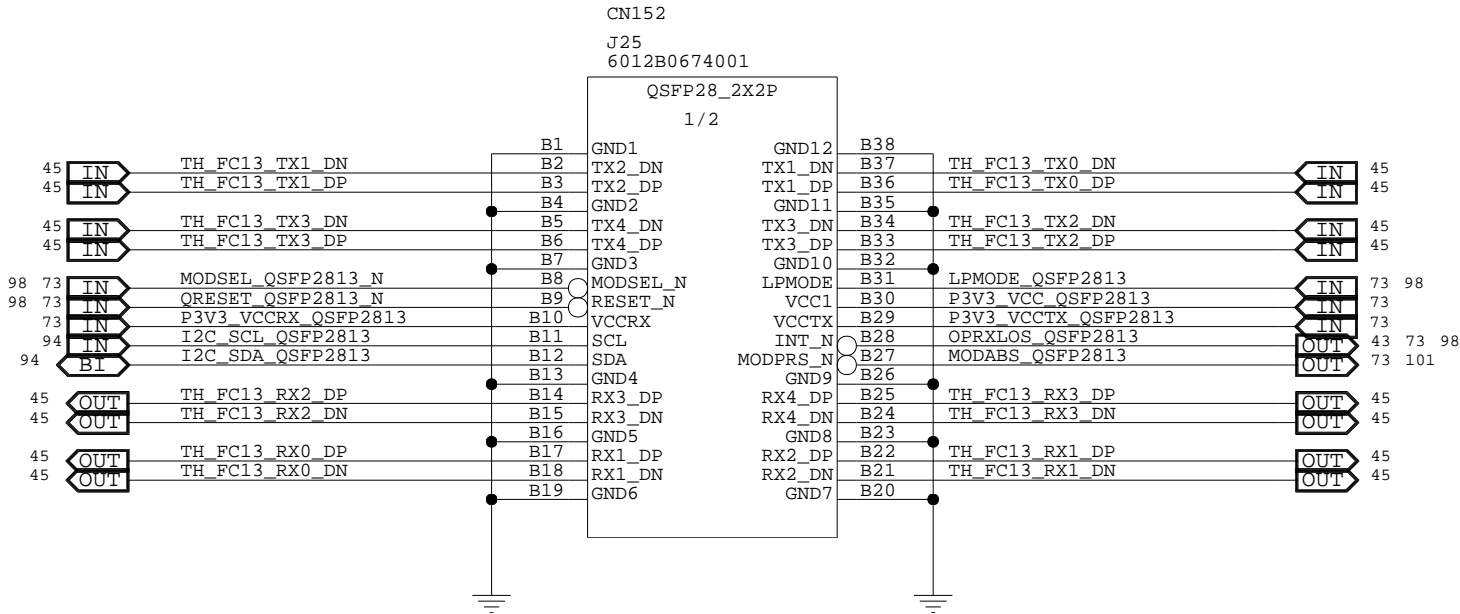
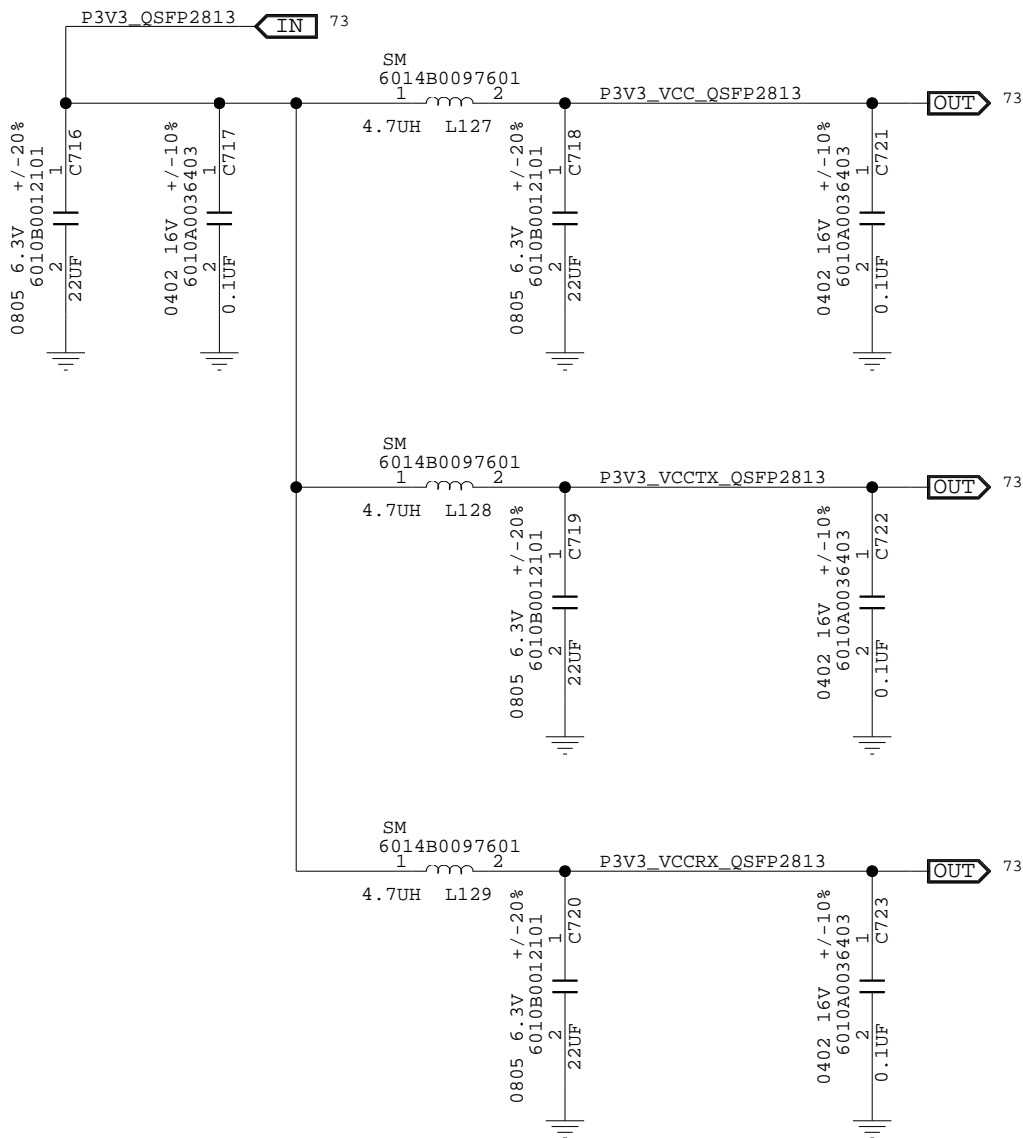
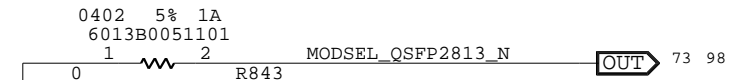
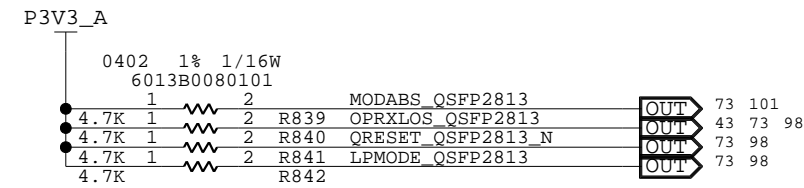
INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION			
SHEET 71 OF 124	Thu Mar 19 10:37:26 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

QSFP28 CONN - PORT 29



QSFP28 CONN - PORT 30

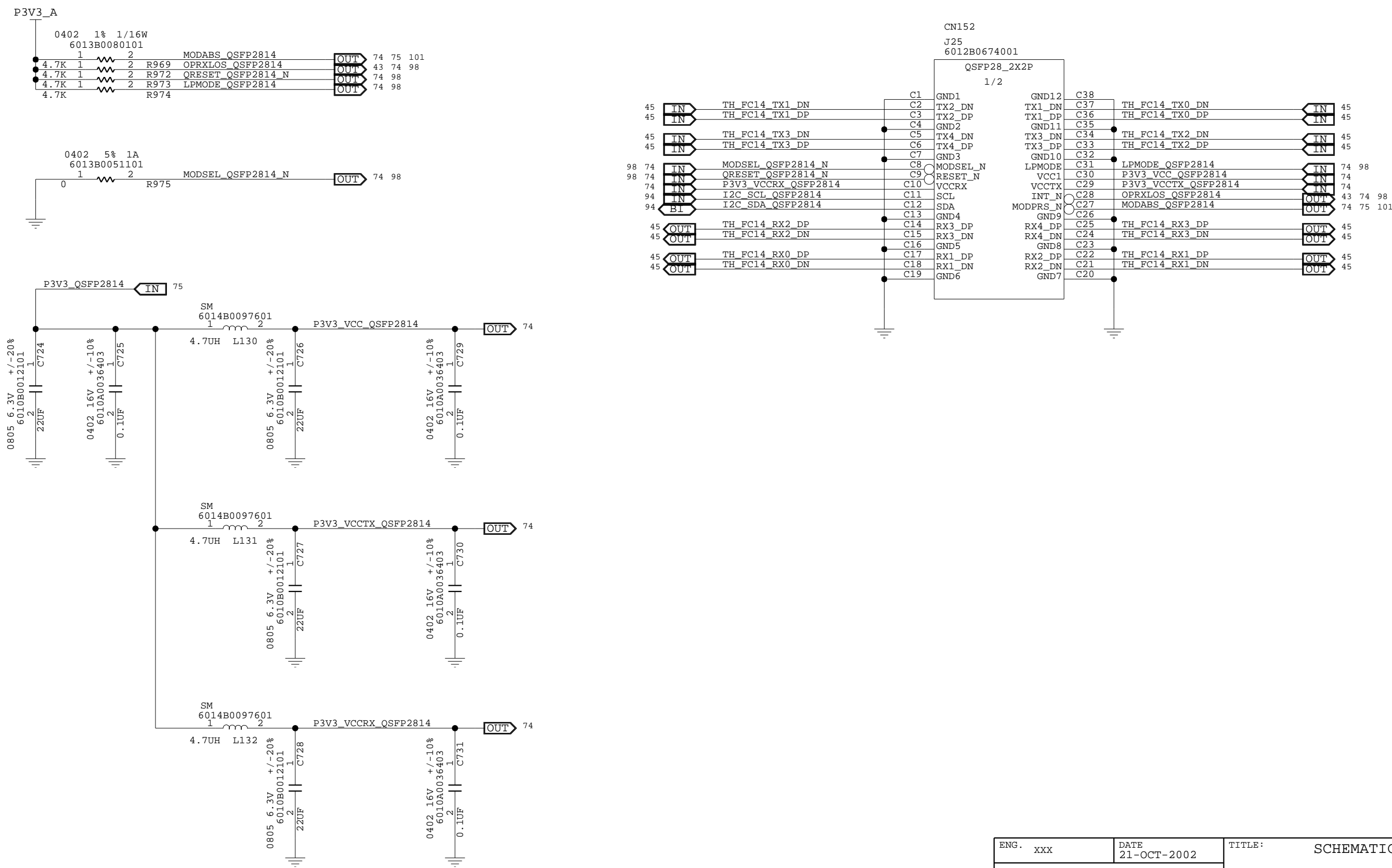


MODULE=QSFP28

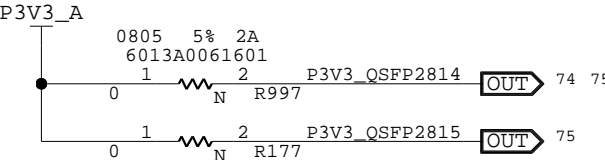
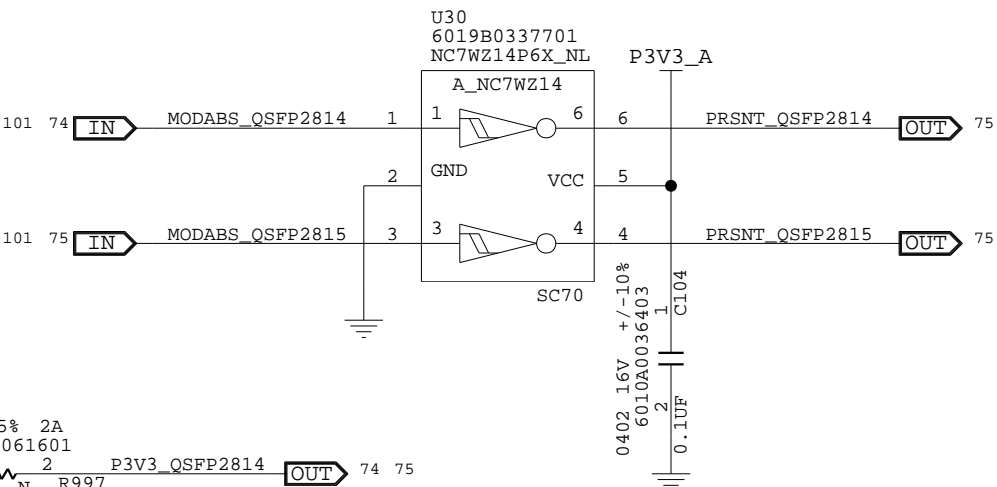
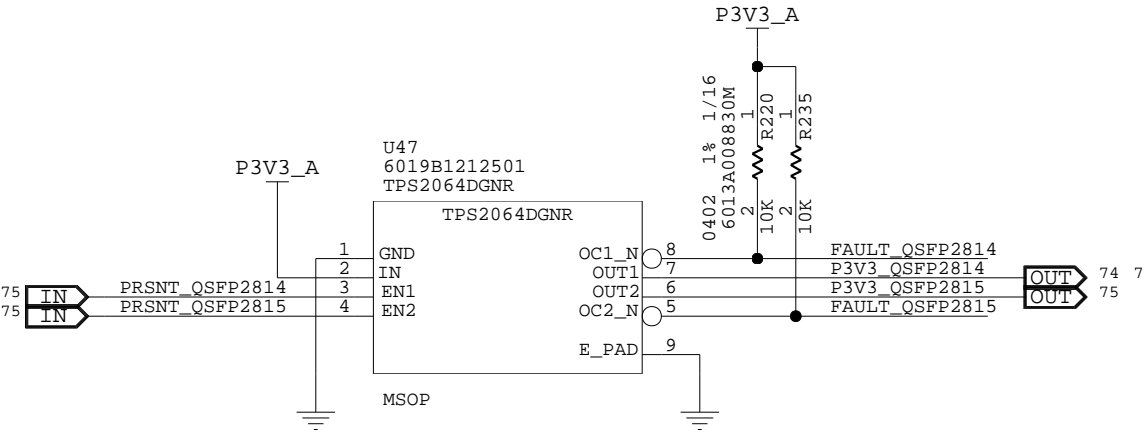
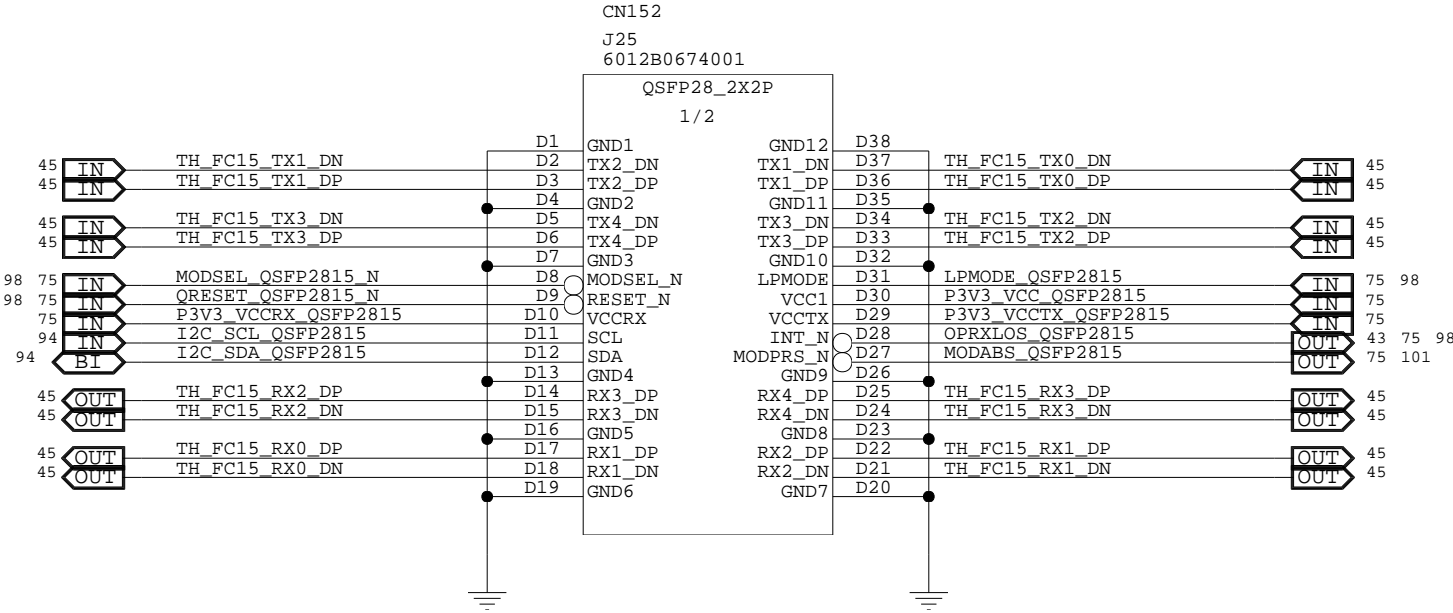
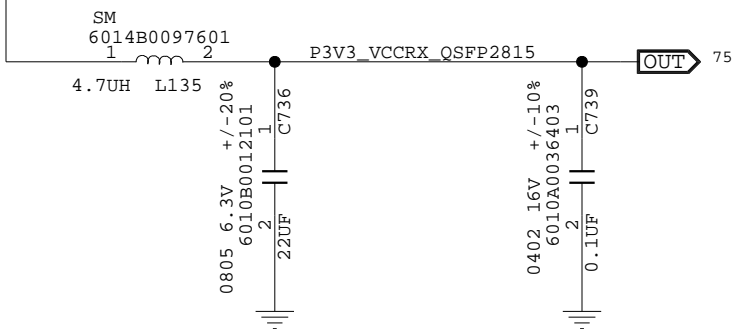
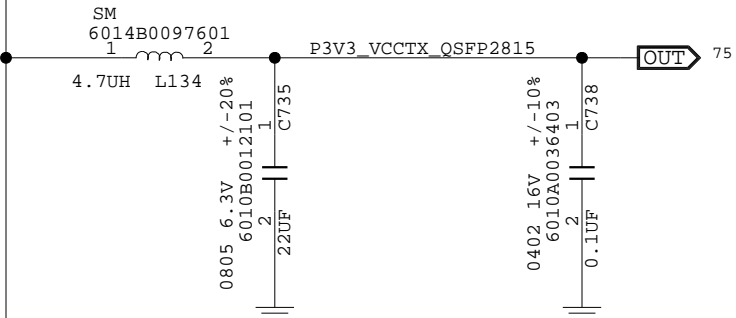
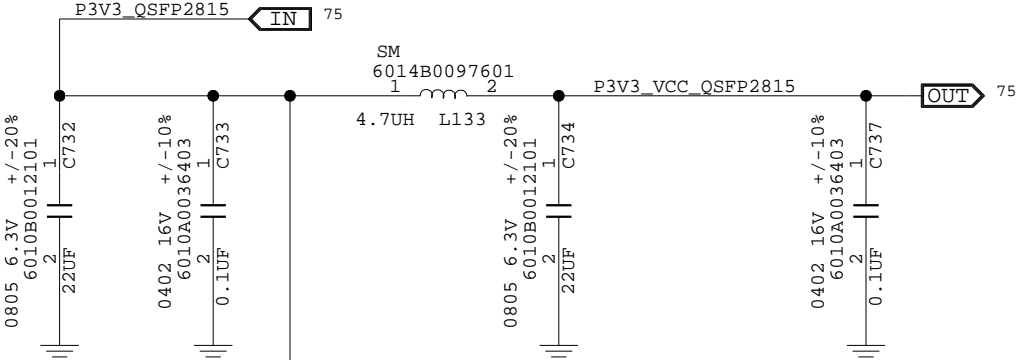
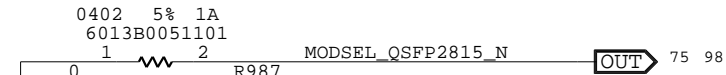
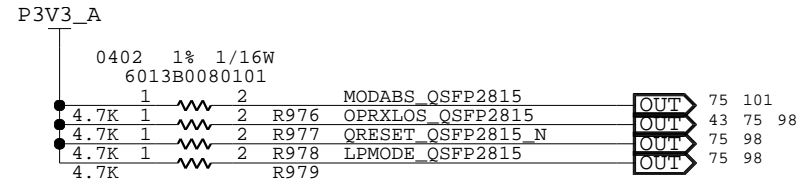
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY		ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,		
		SHEET 73 OF 124	Thu Mar 19 10:37:38 2015	MODEL, PROJECT, FUNCTION		
		PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

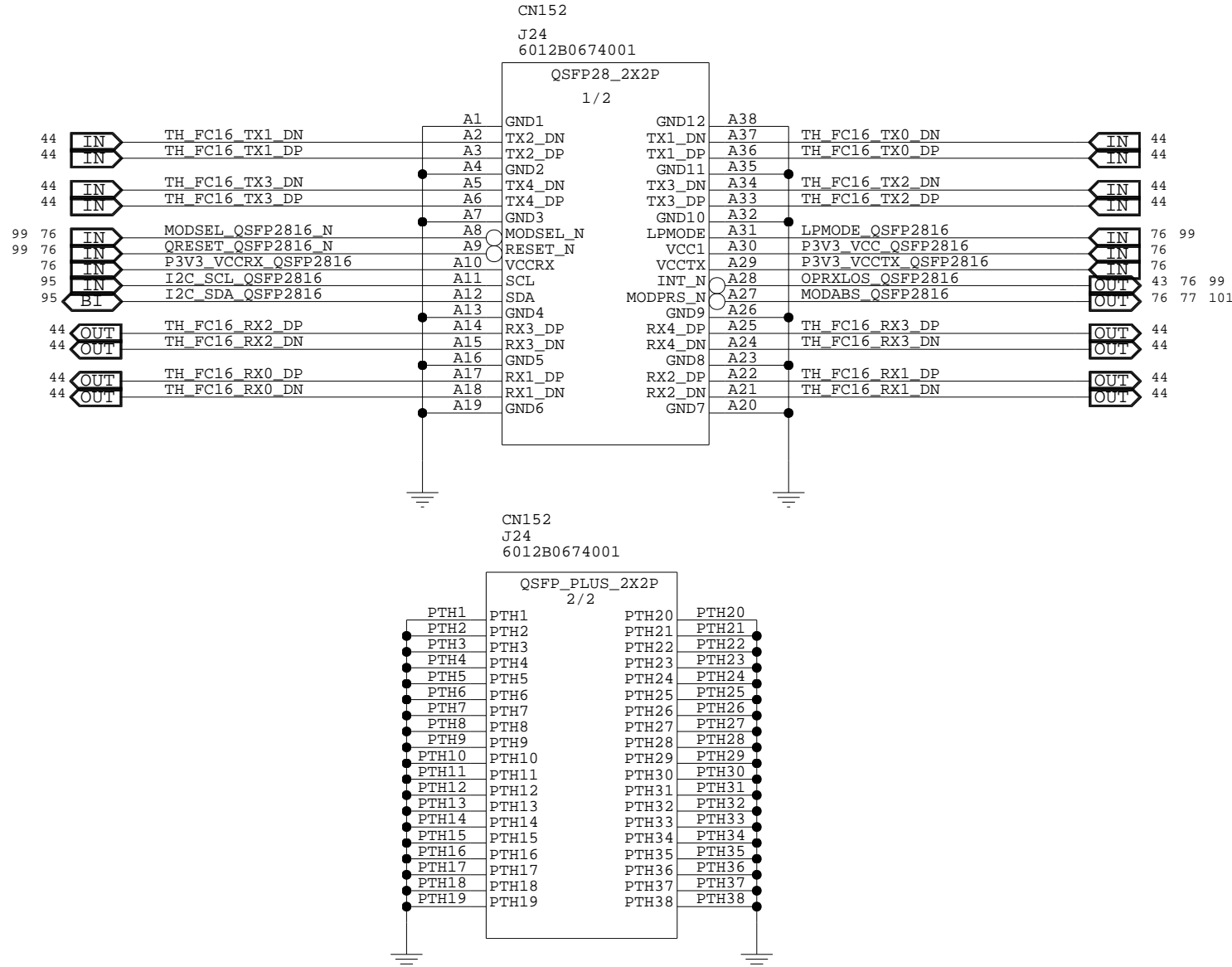
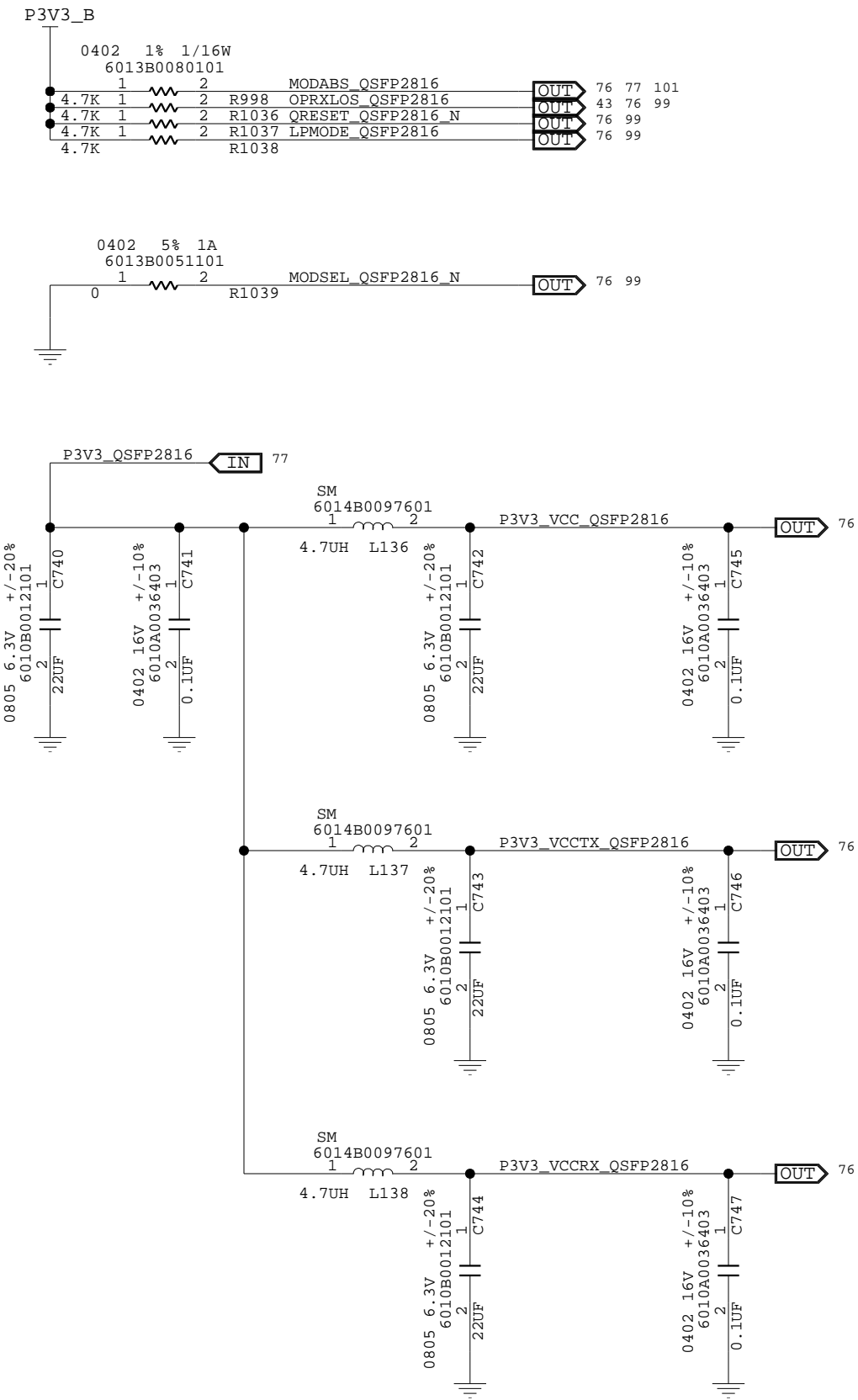
QSFP28 CONN - PORT 31



QSFP28 CONN - PORT 31



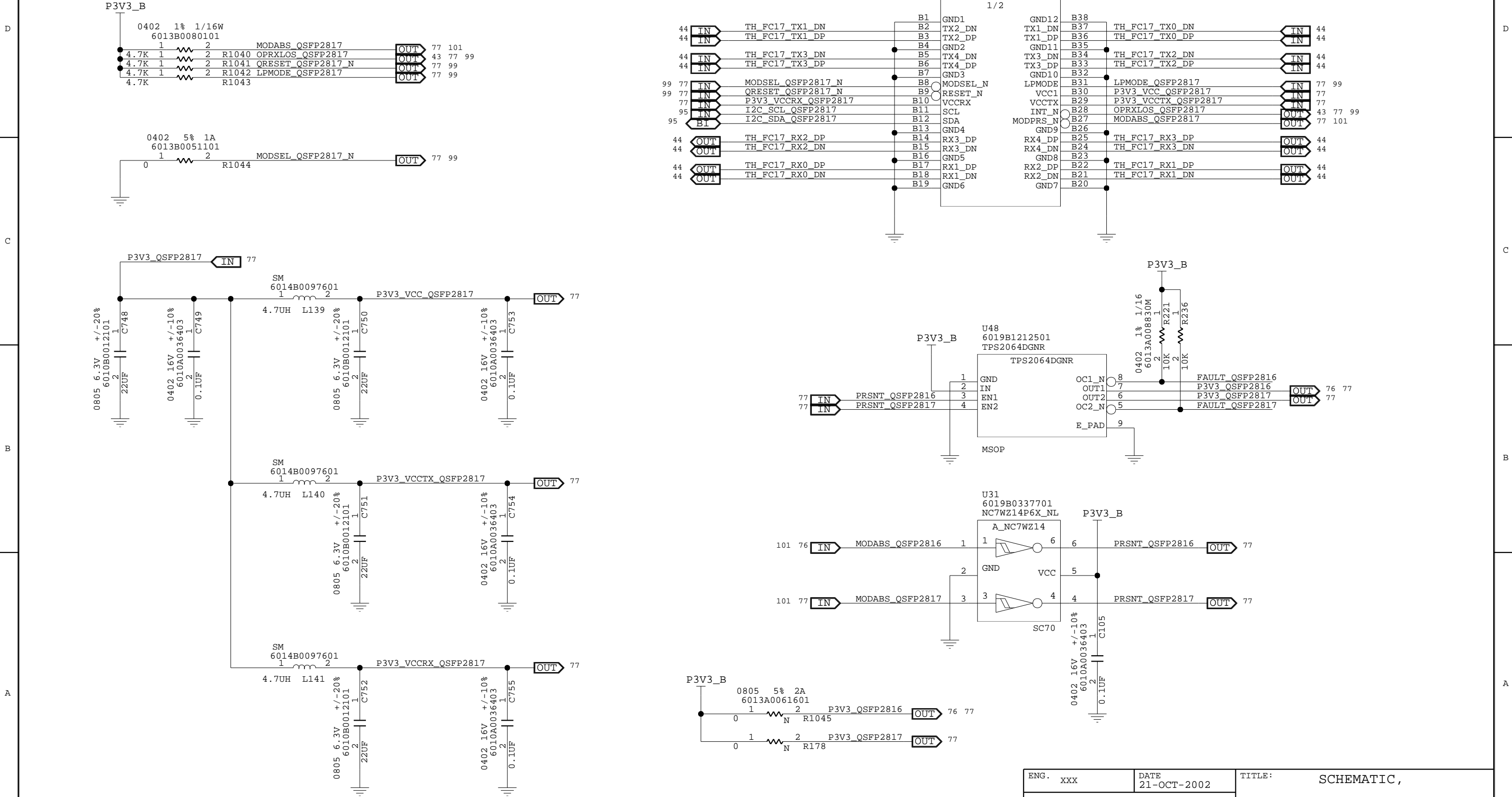
QSFP28 CONN - PORT 1



MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY		ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION		
		SHEET 76 OF 124	Thu Mar 19 10:34:44 2015			
		PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 CONN - PORT 2

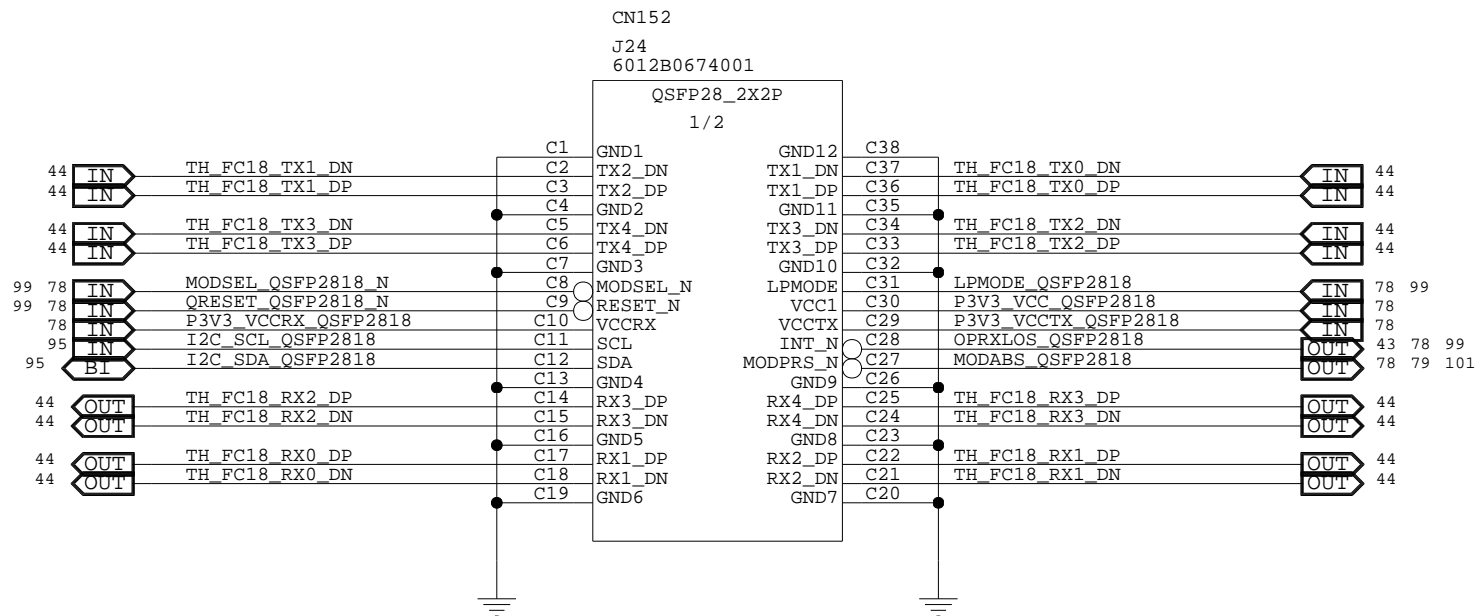
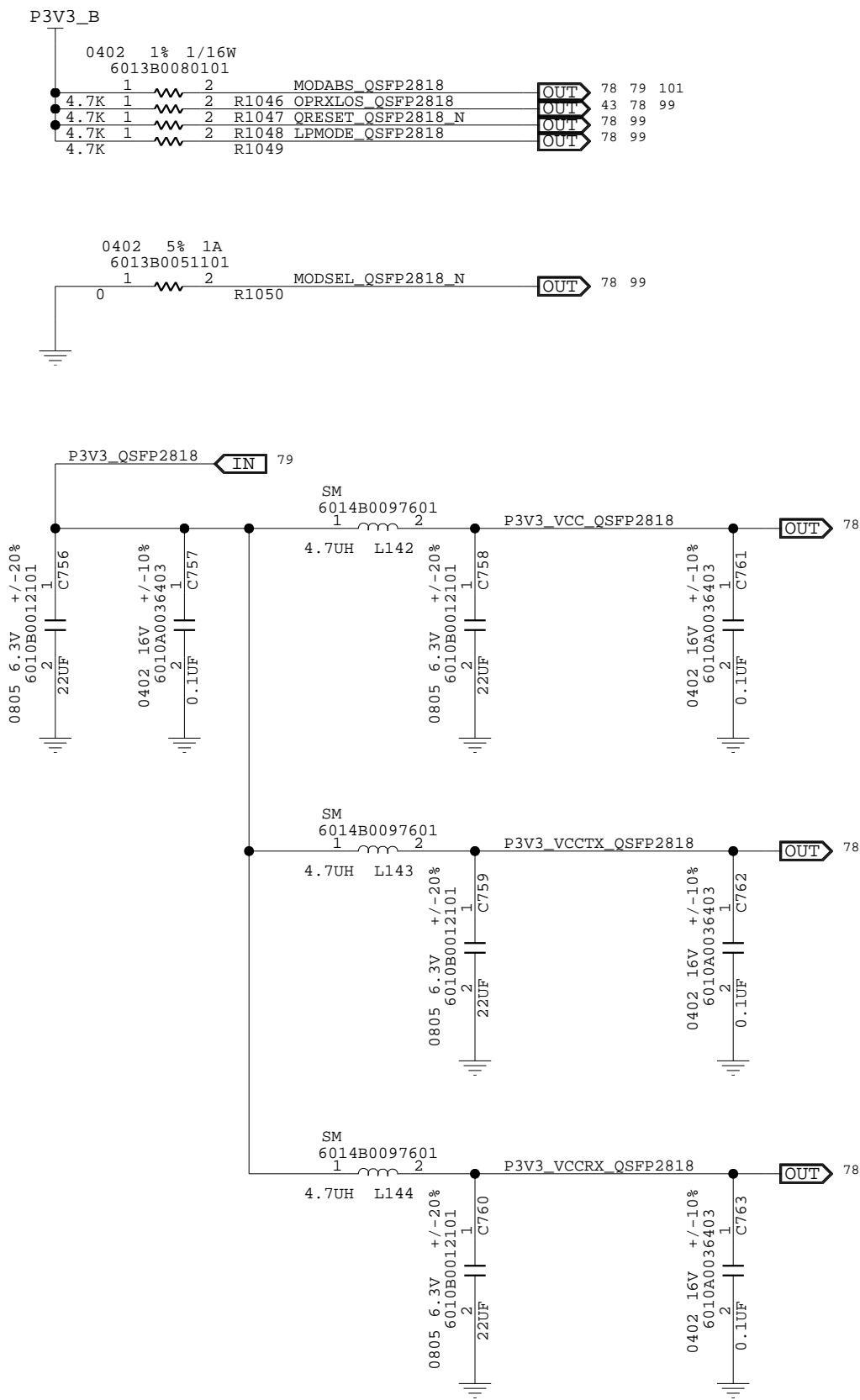


MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY				PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0		REV X01
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ENG. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
SHEET 77 OF 124						
Thu Mar 19 10:34:54 2015						
PCB NUMBER 6050A2737101		REV XXX		SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 CONN - PORT 3



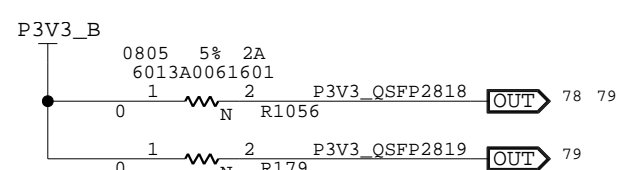
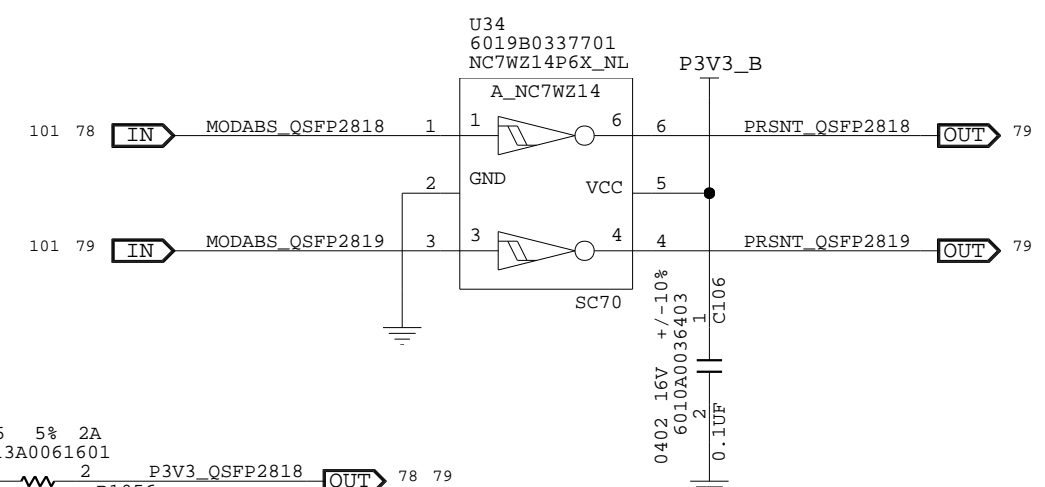
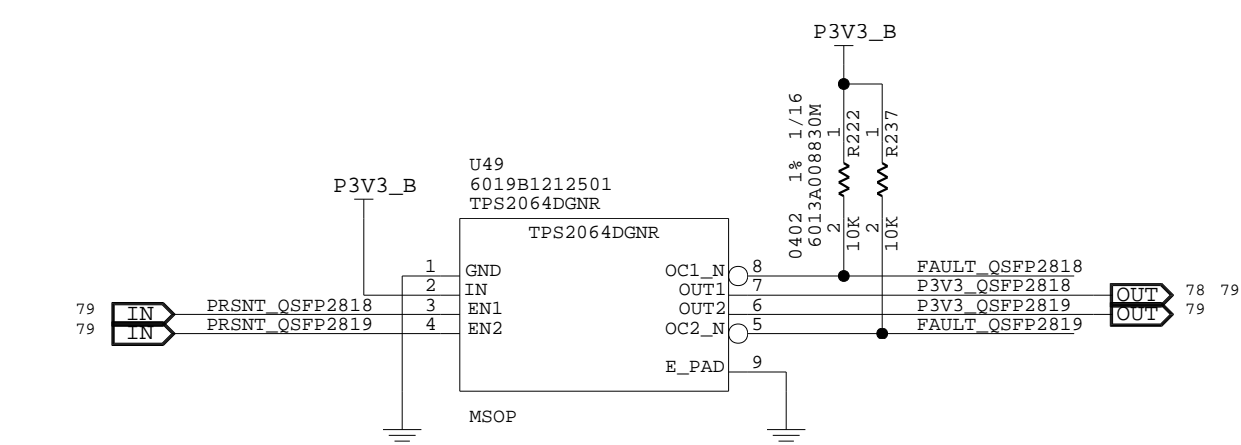
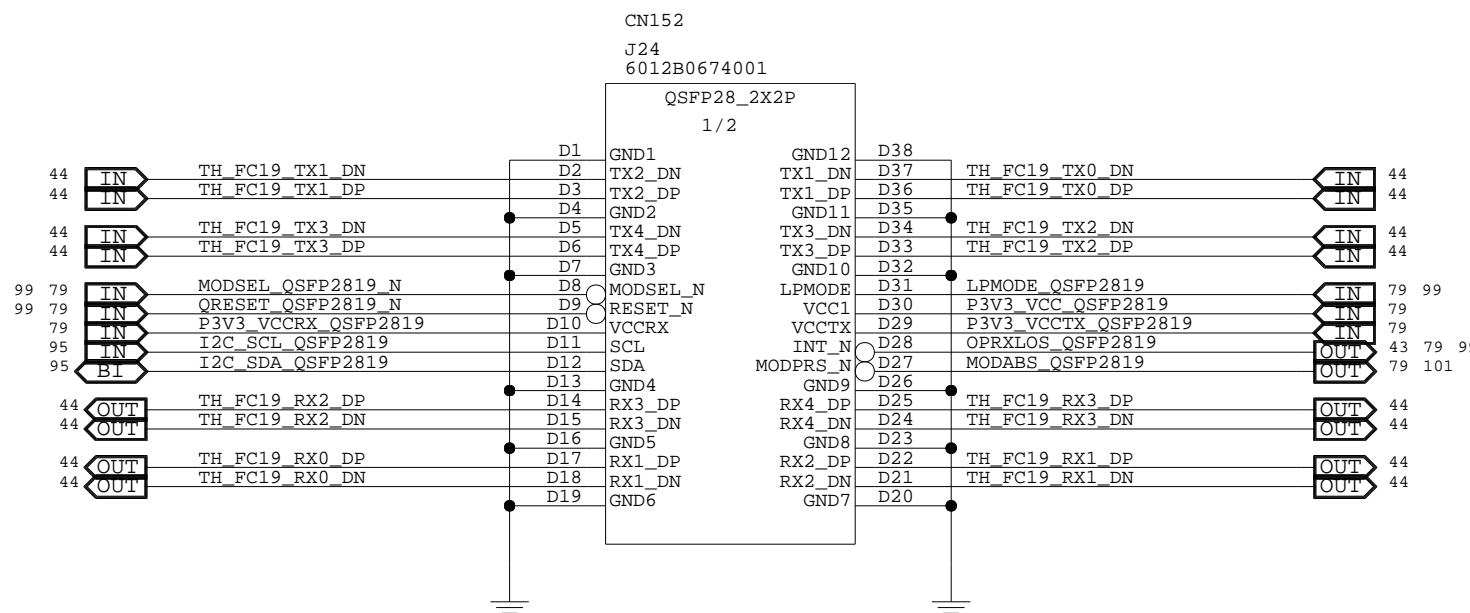
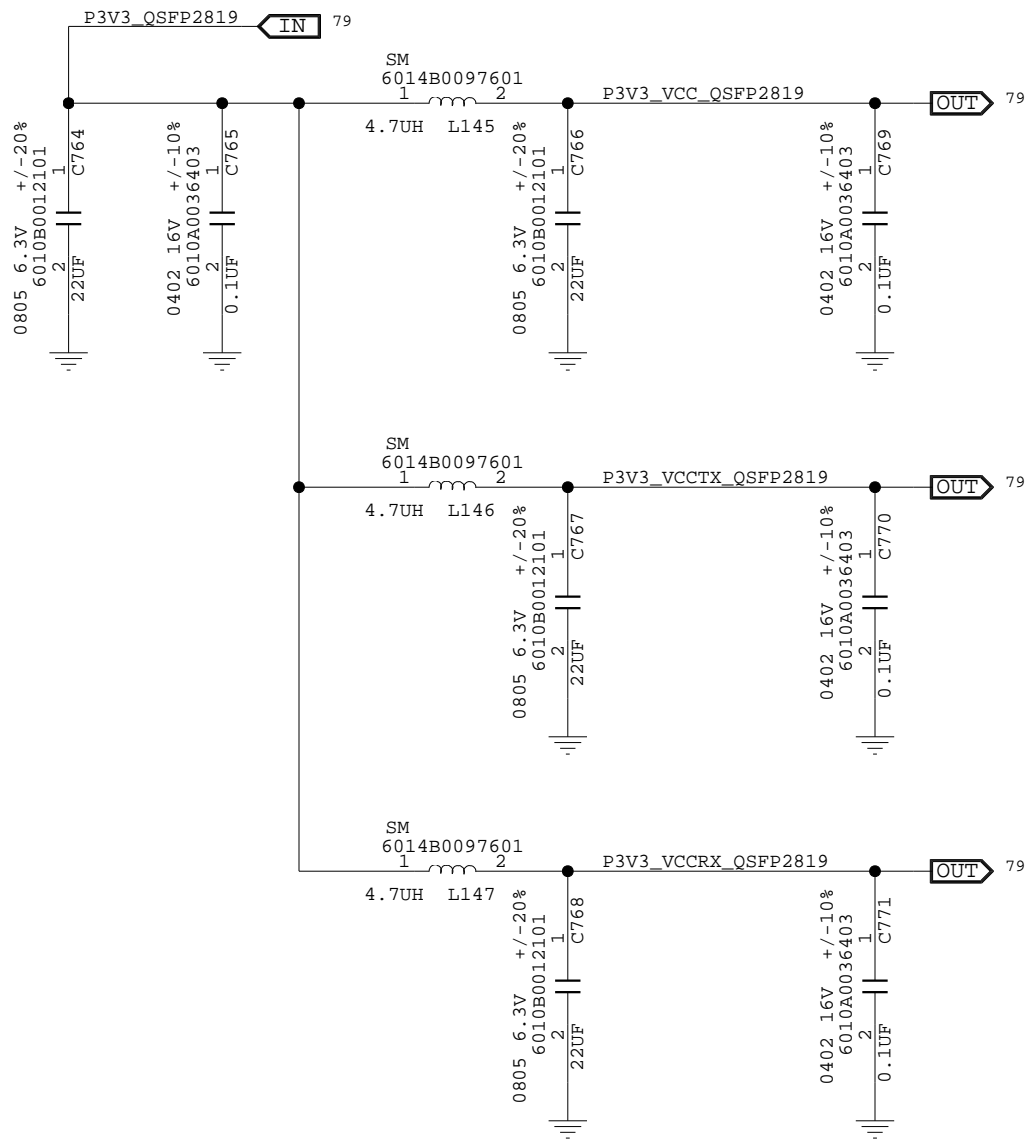
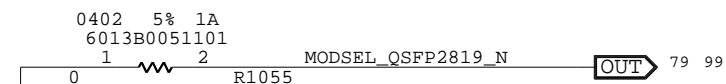
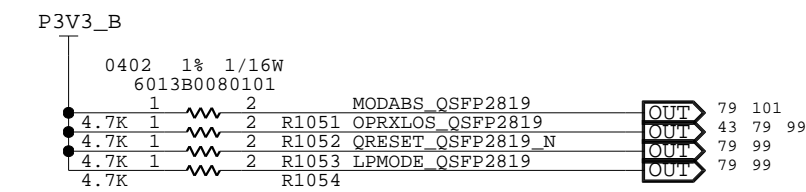
MODULE=QSFP28

FUNCTION=---

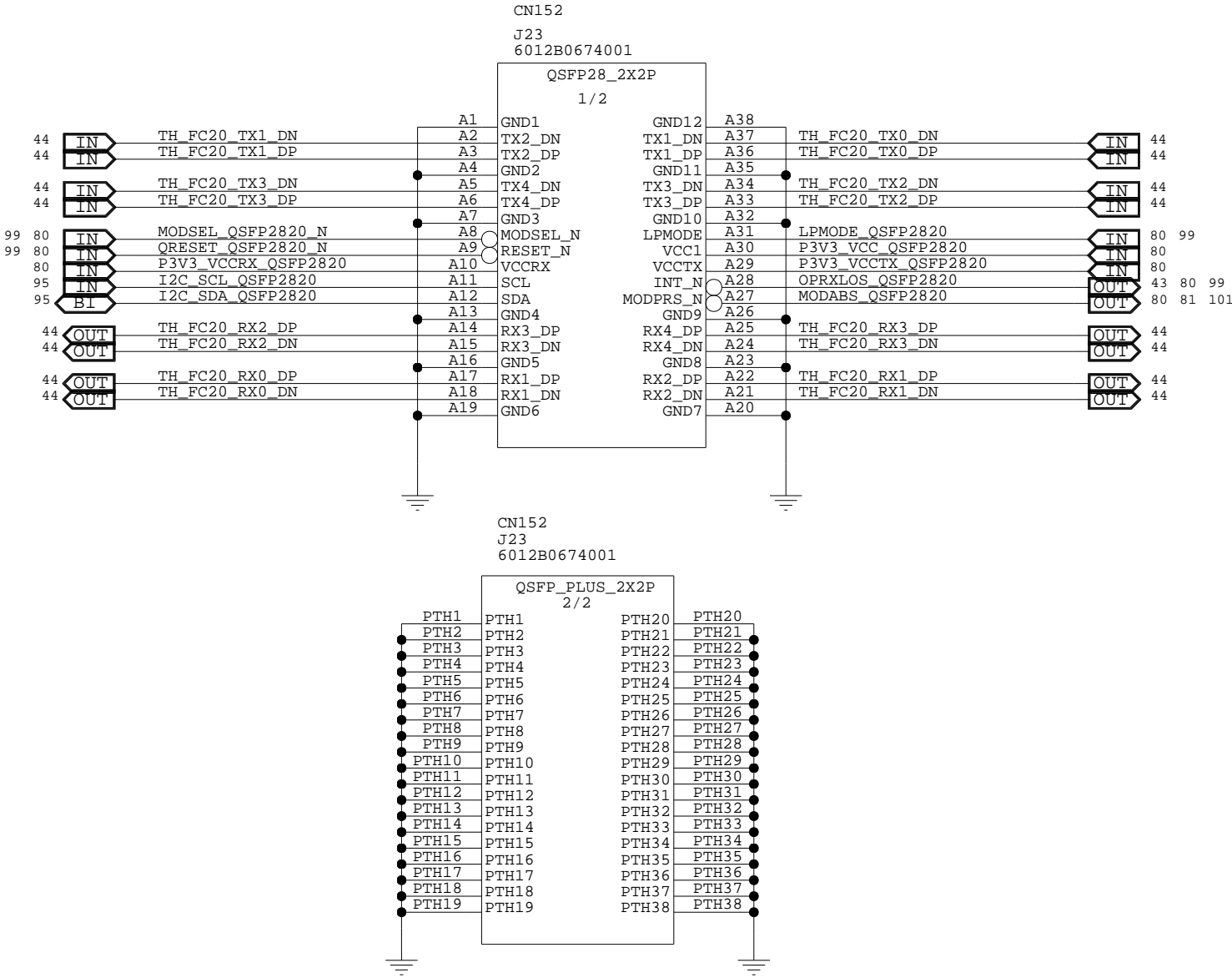
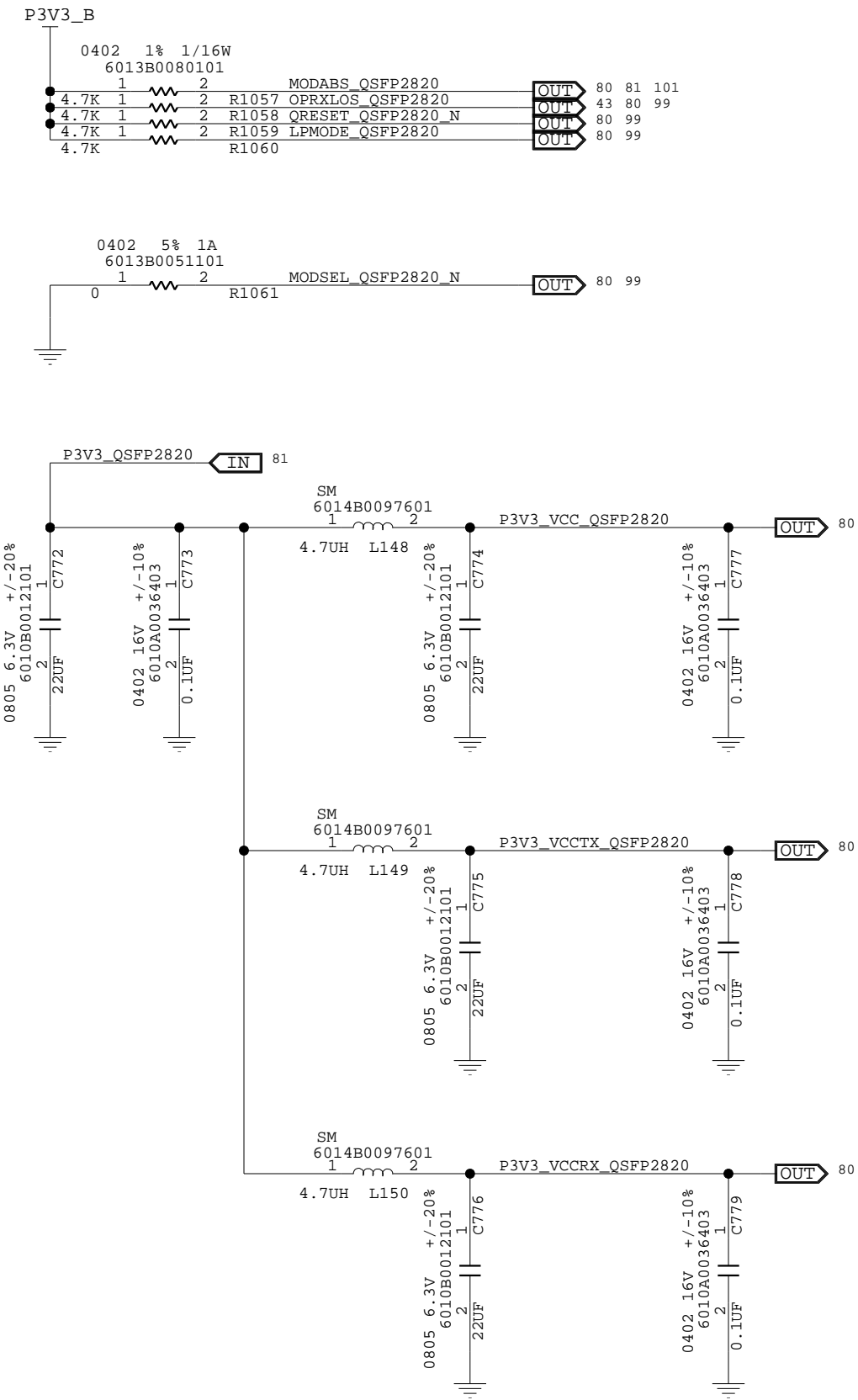
INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,			
SHEET 78 OF 124	Thu Mar 19 10:35:00 2015	MODEL, PROJECT, FUNCTION			
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

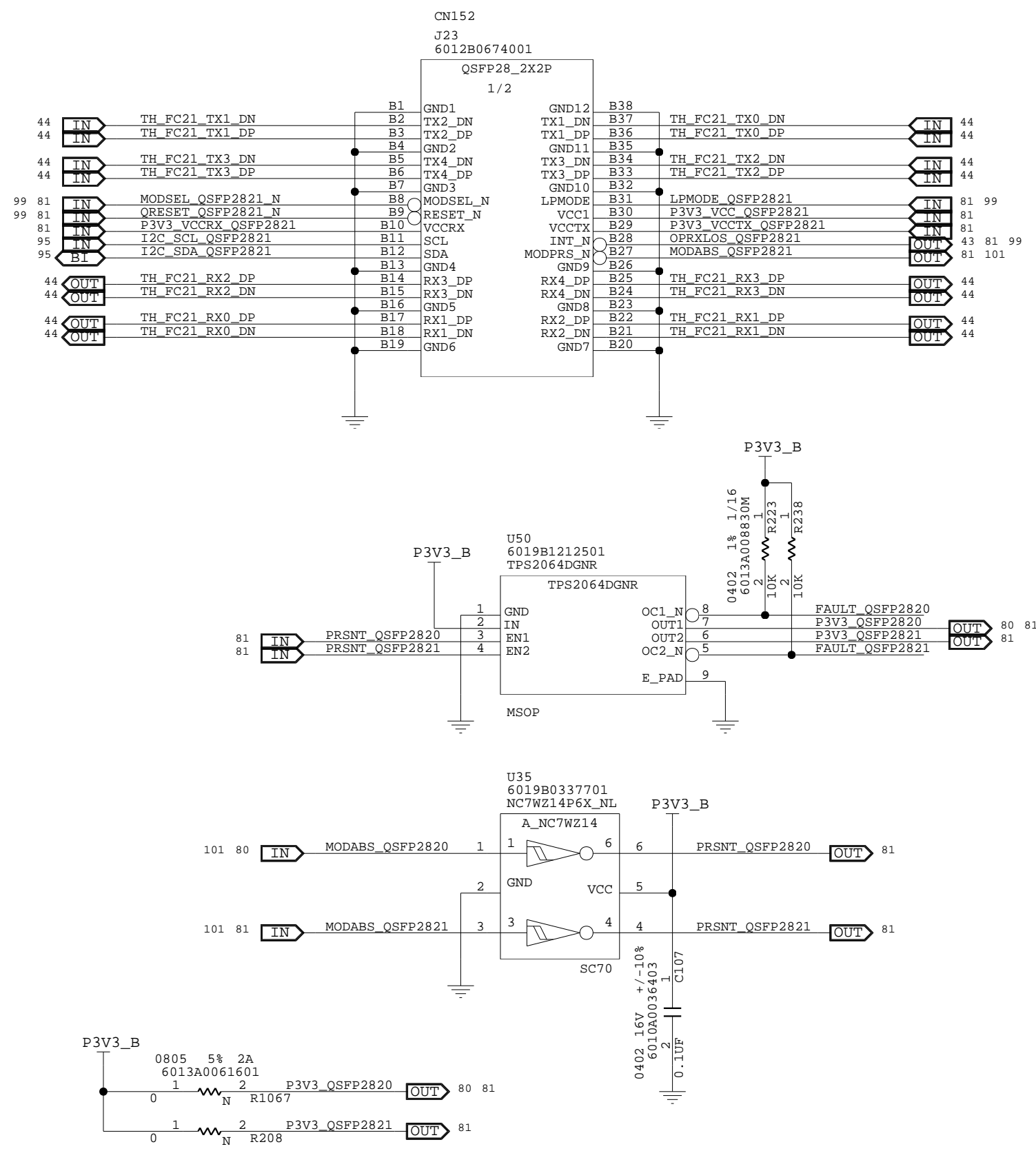
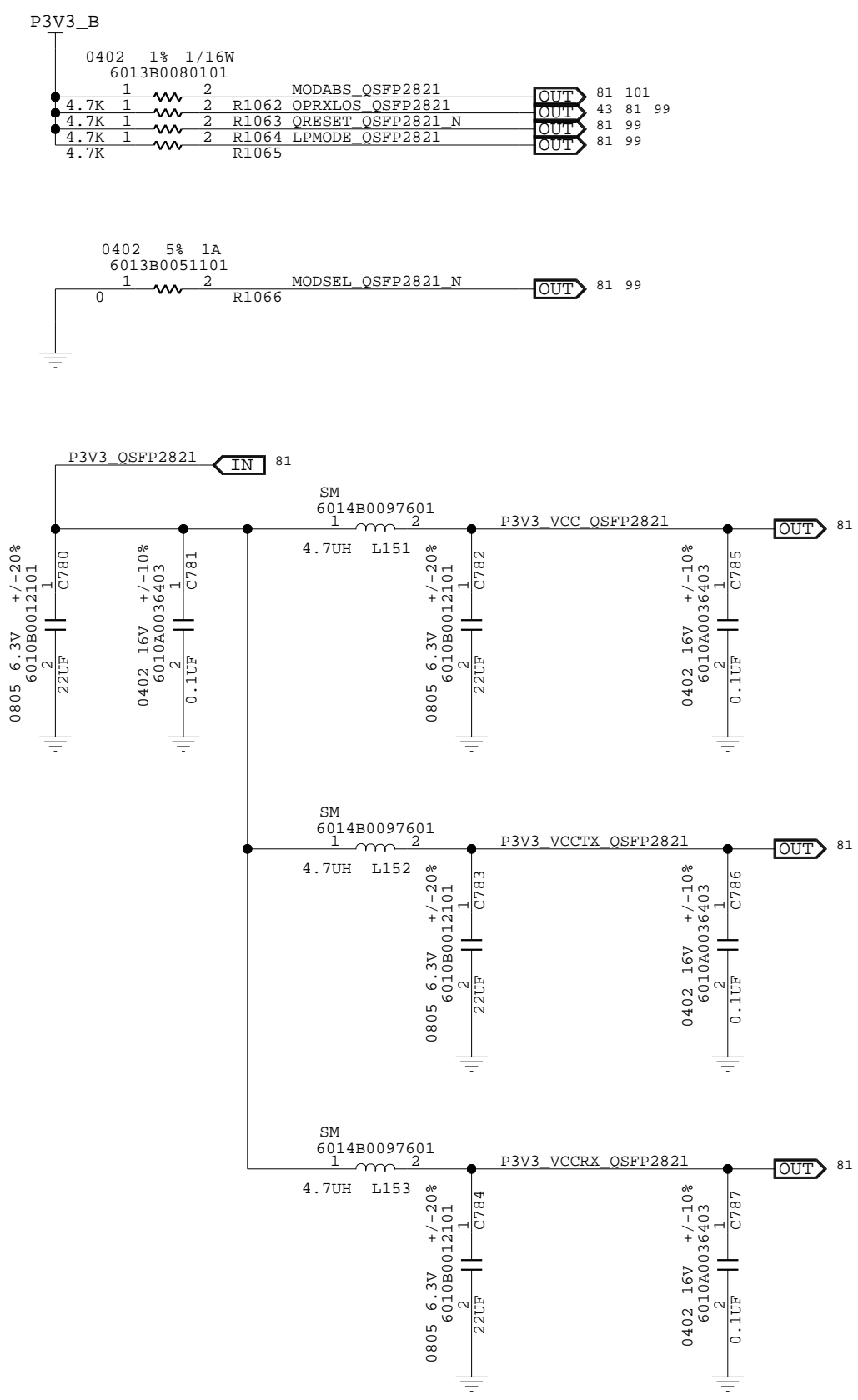
QSFP28 CONN - PORT 4



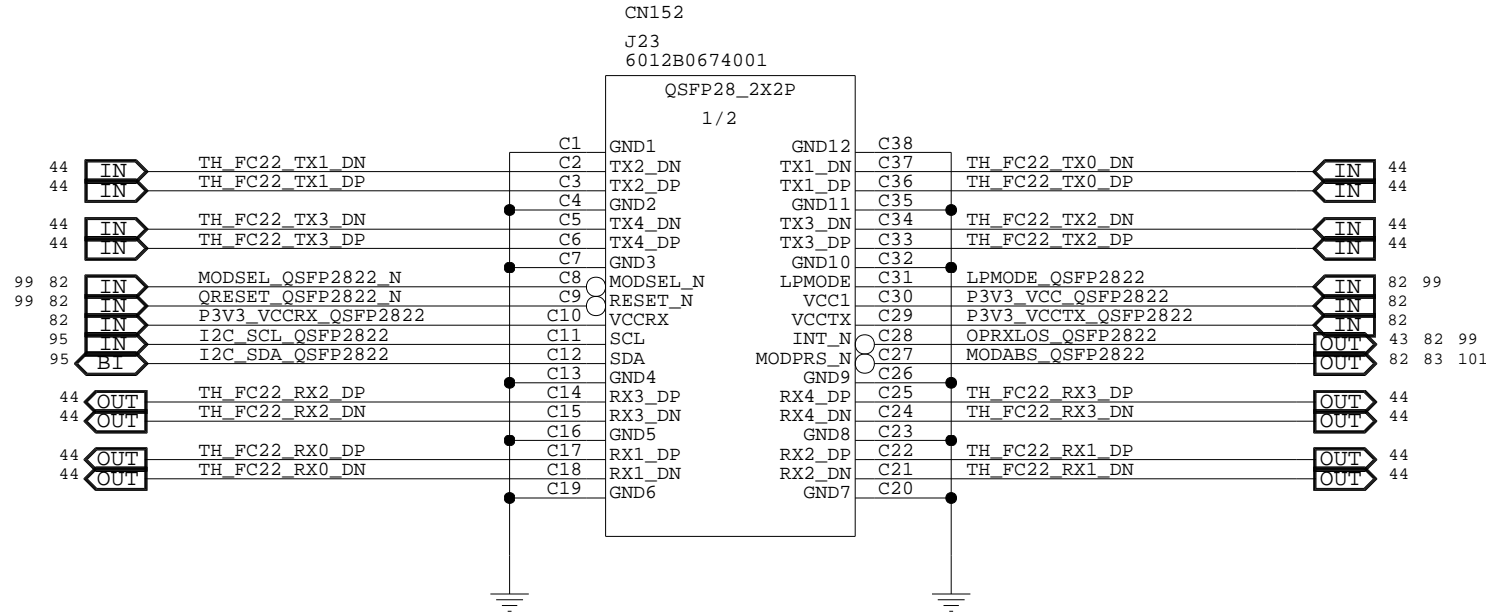
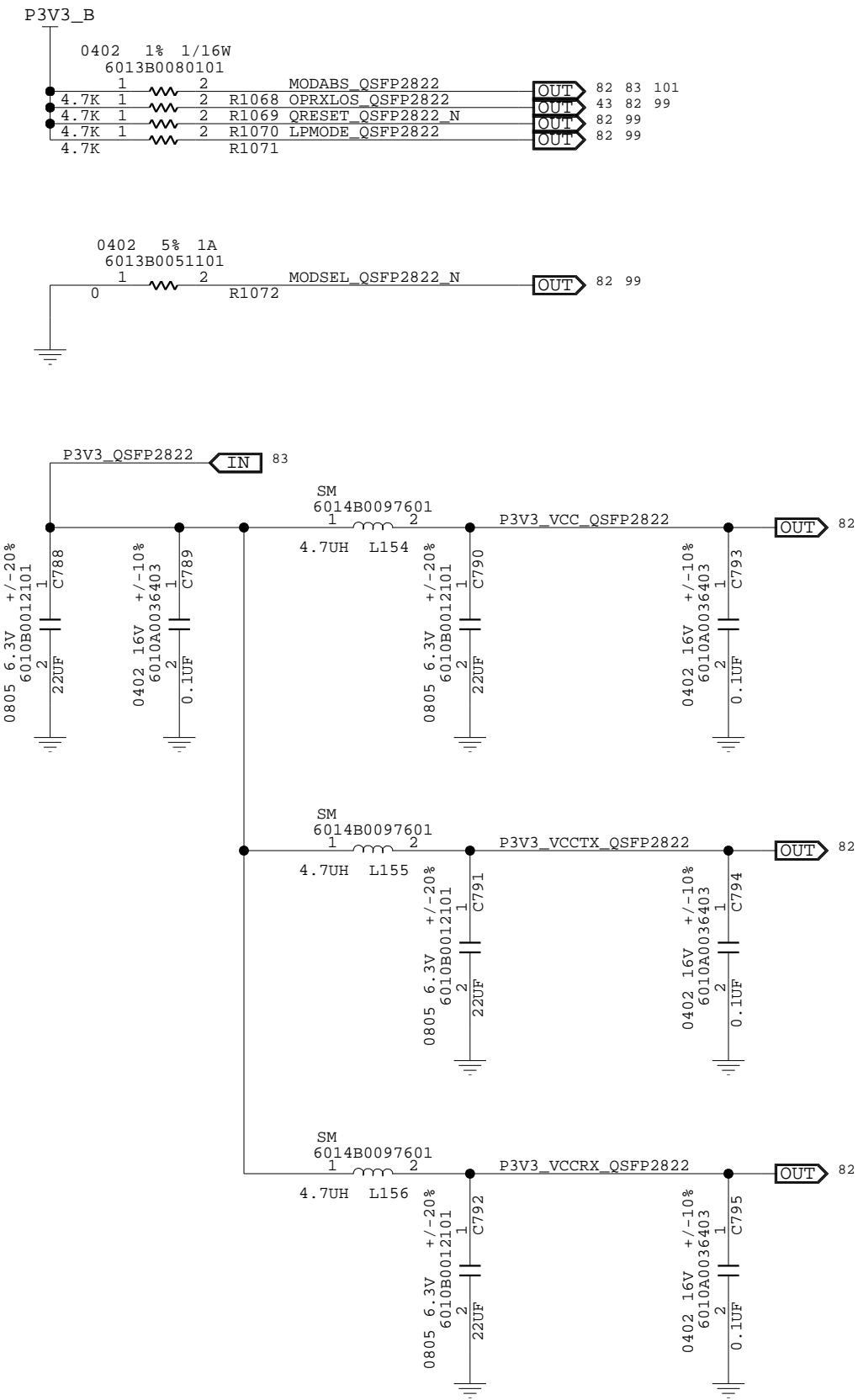
QSFP28 CONN - PORT 5



QSFP28 CONN - PORT 6



QSFP28 CONN - PORT 7



QSFP28 CONN - PORT 8

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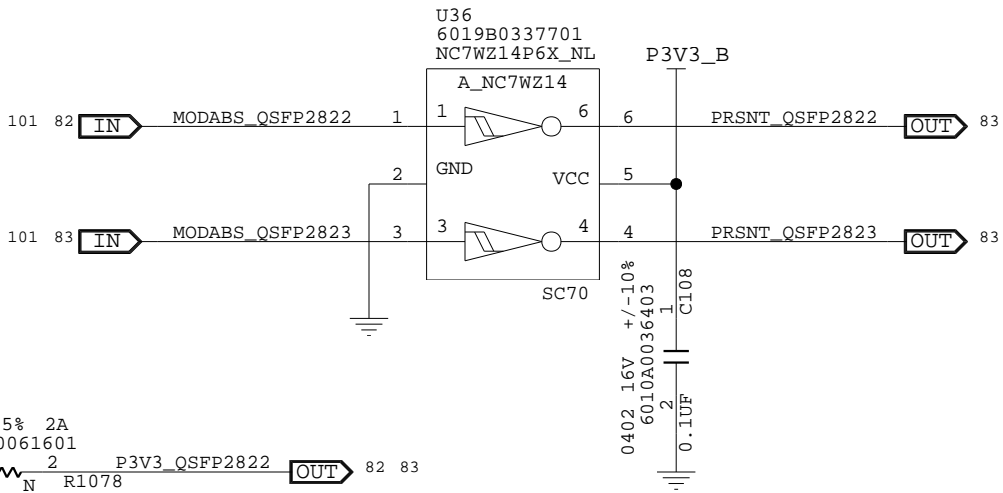
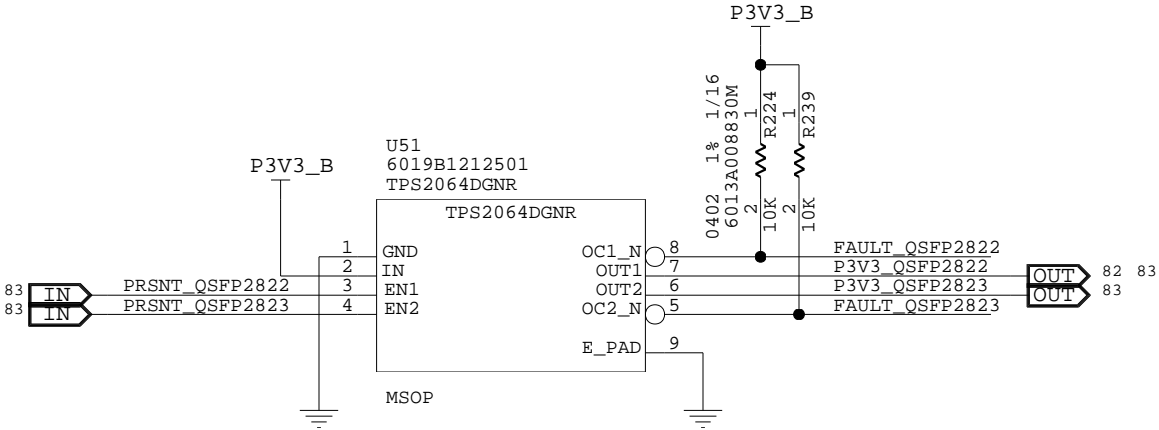
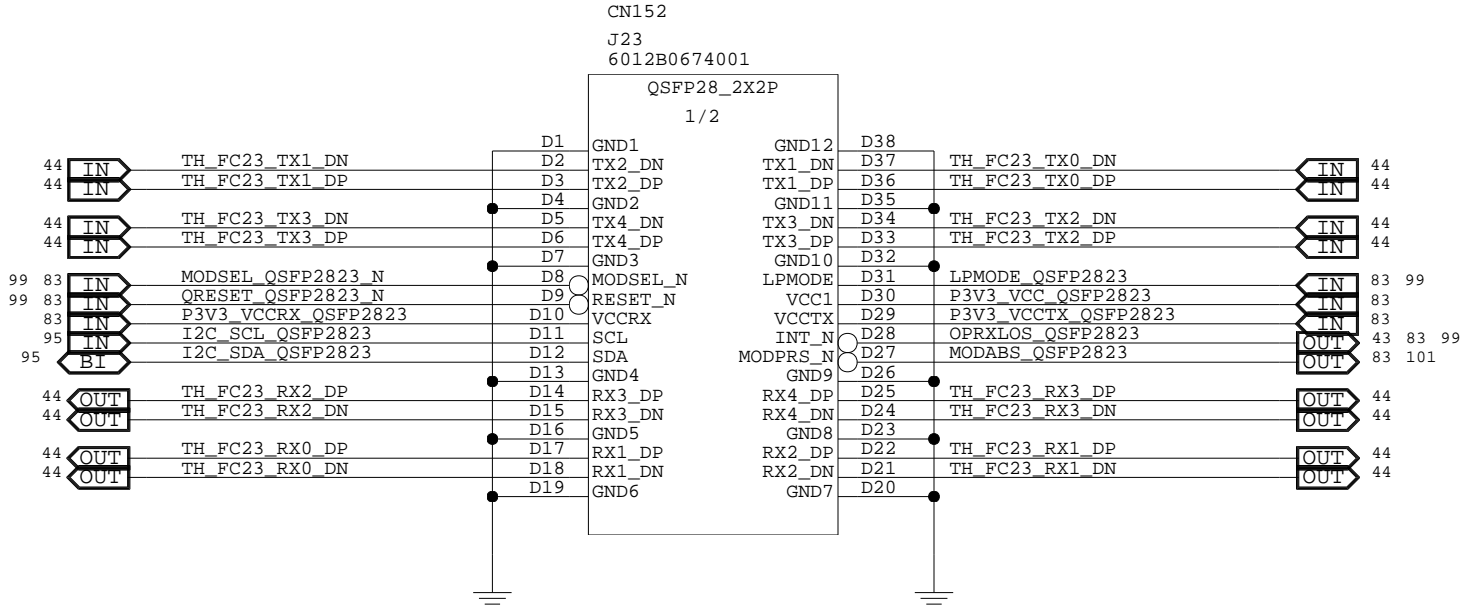
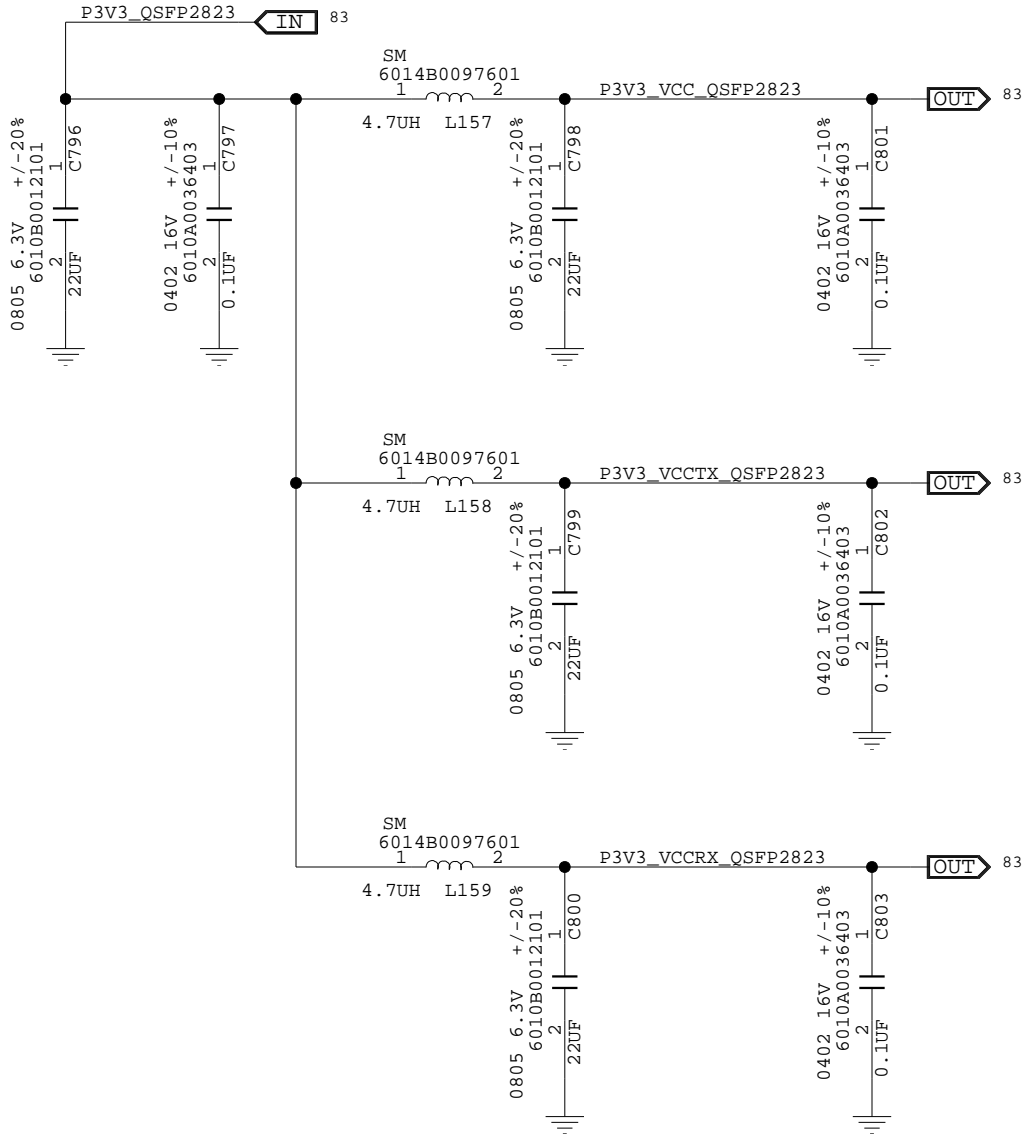
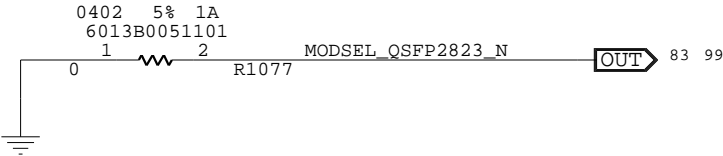
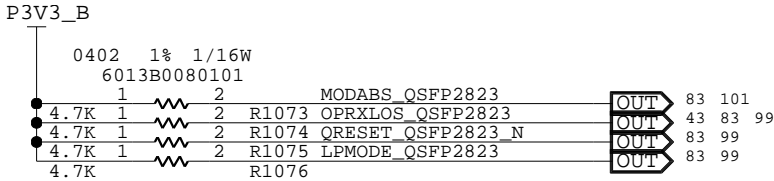
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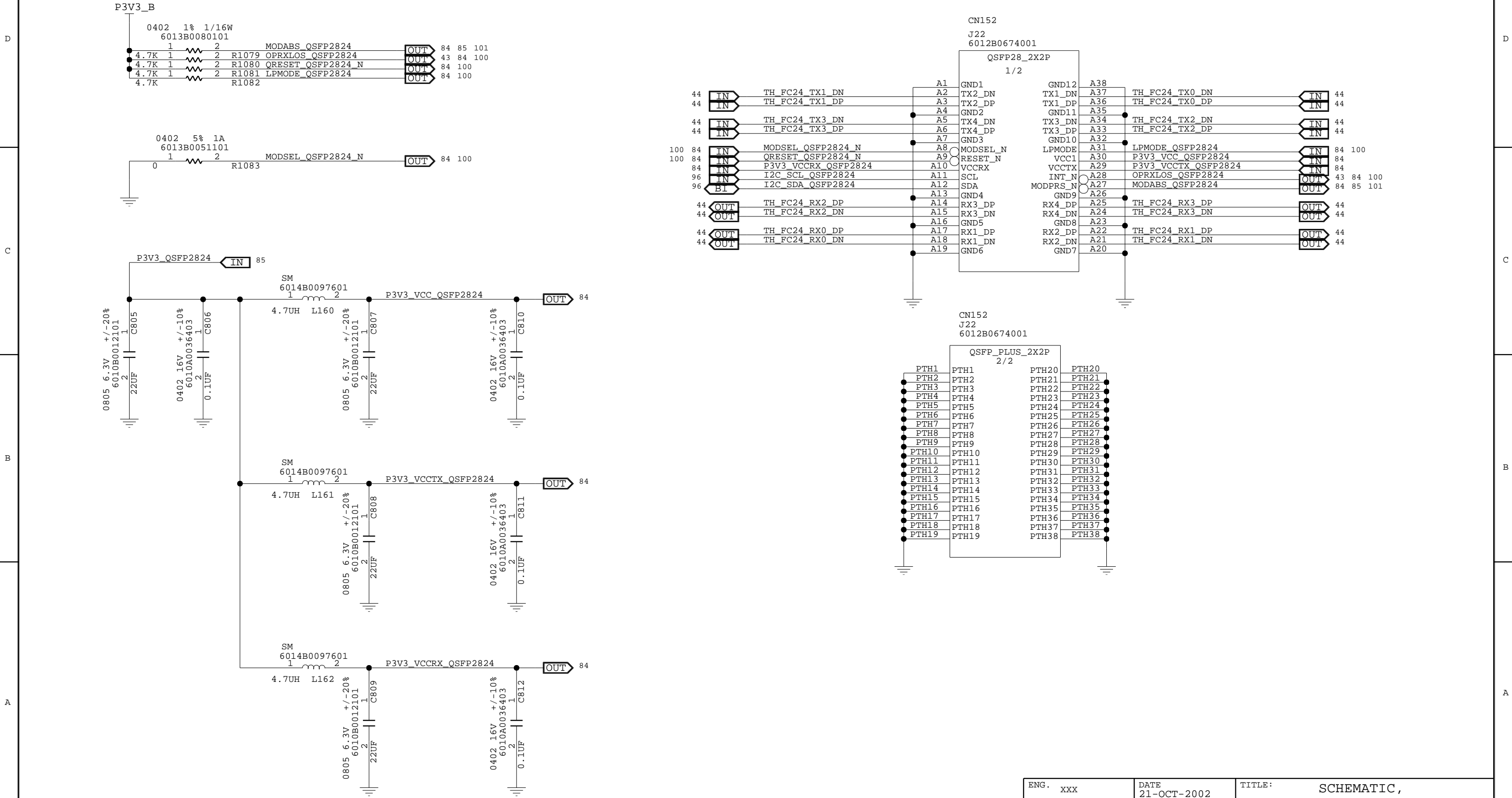


MODULE=QSFP28

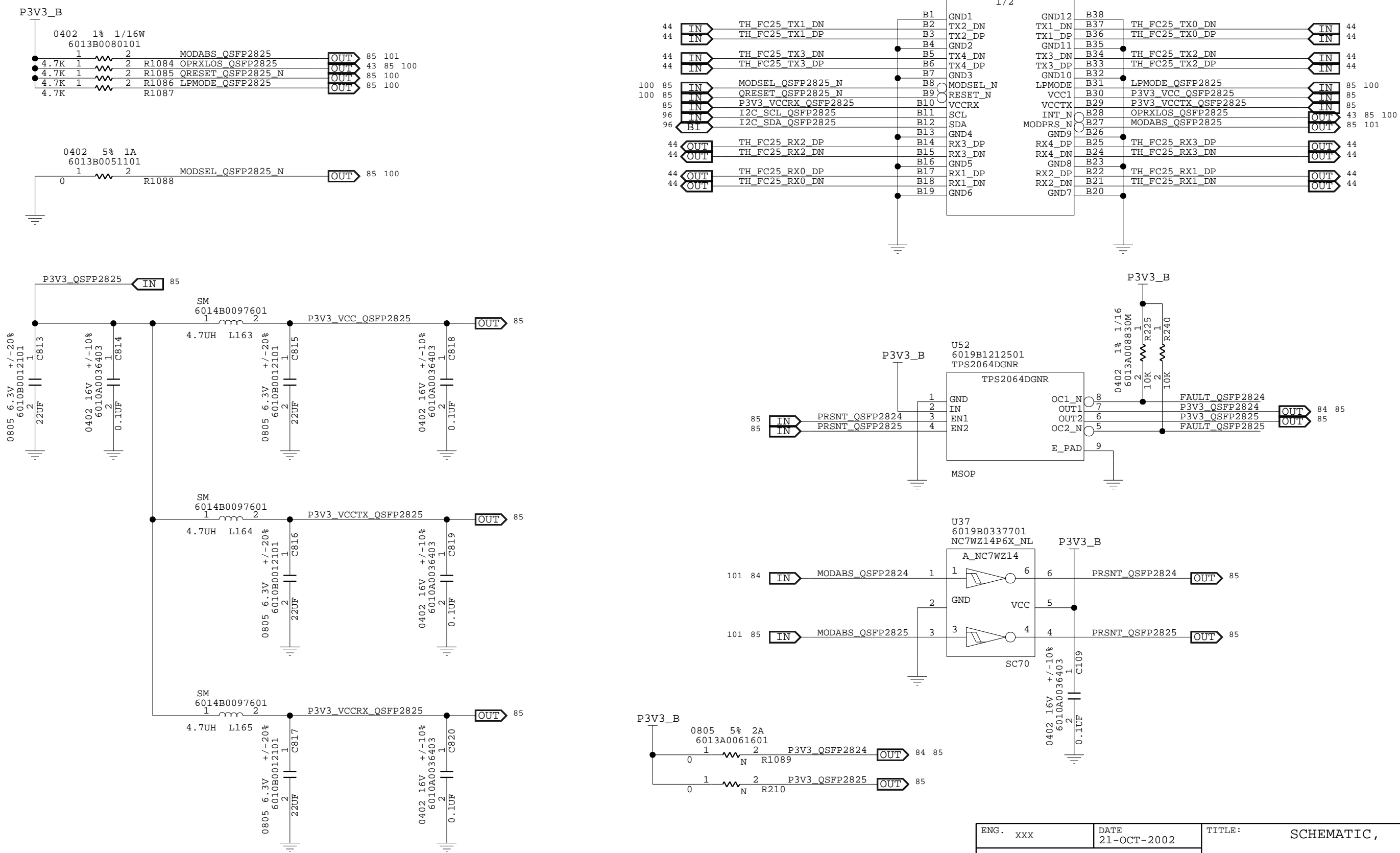
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY		ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
		SHEET 83 OF 124	Thu Mar 19 10:35:29 2015			
		PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

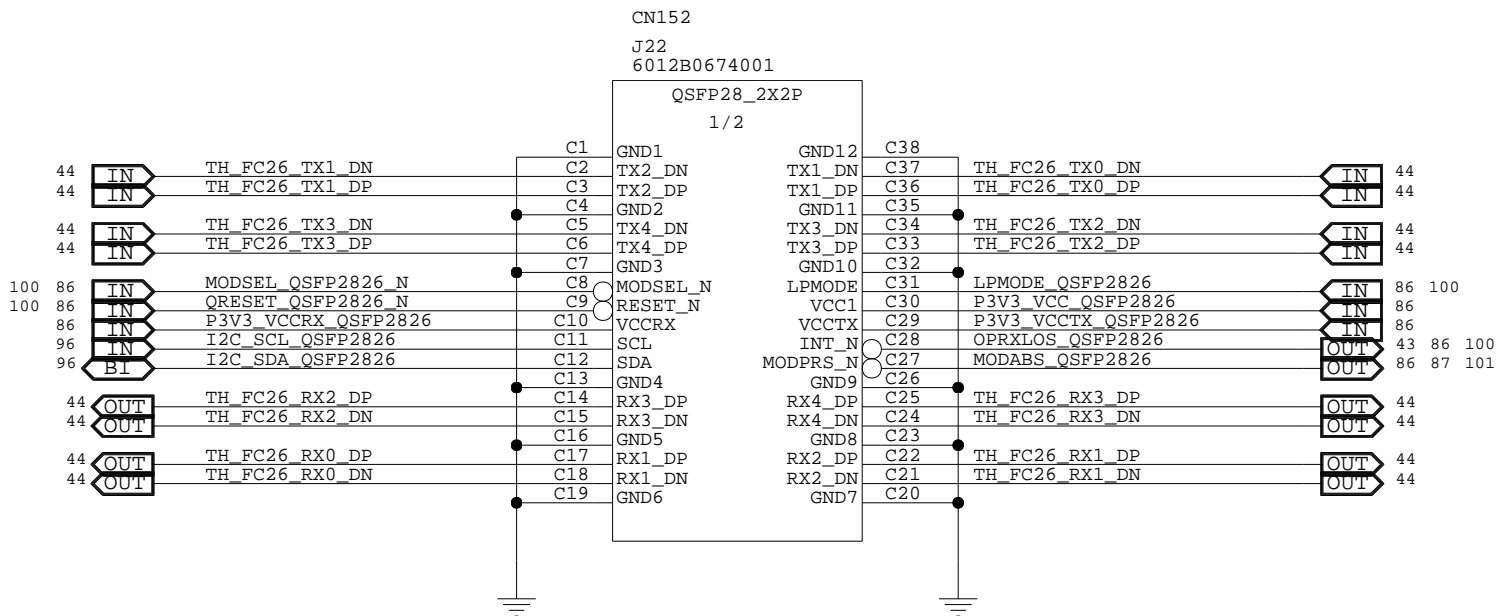
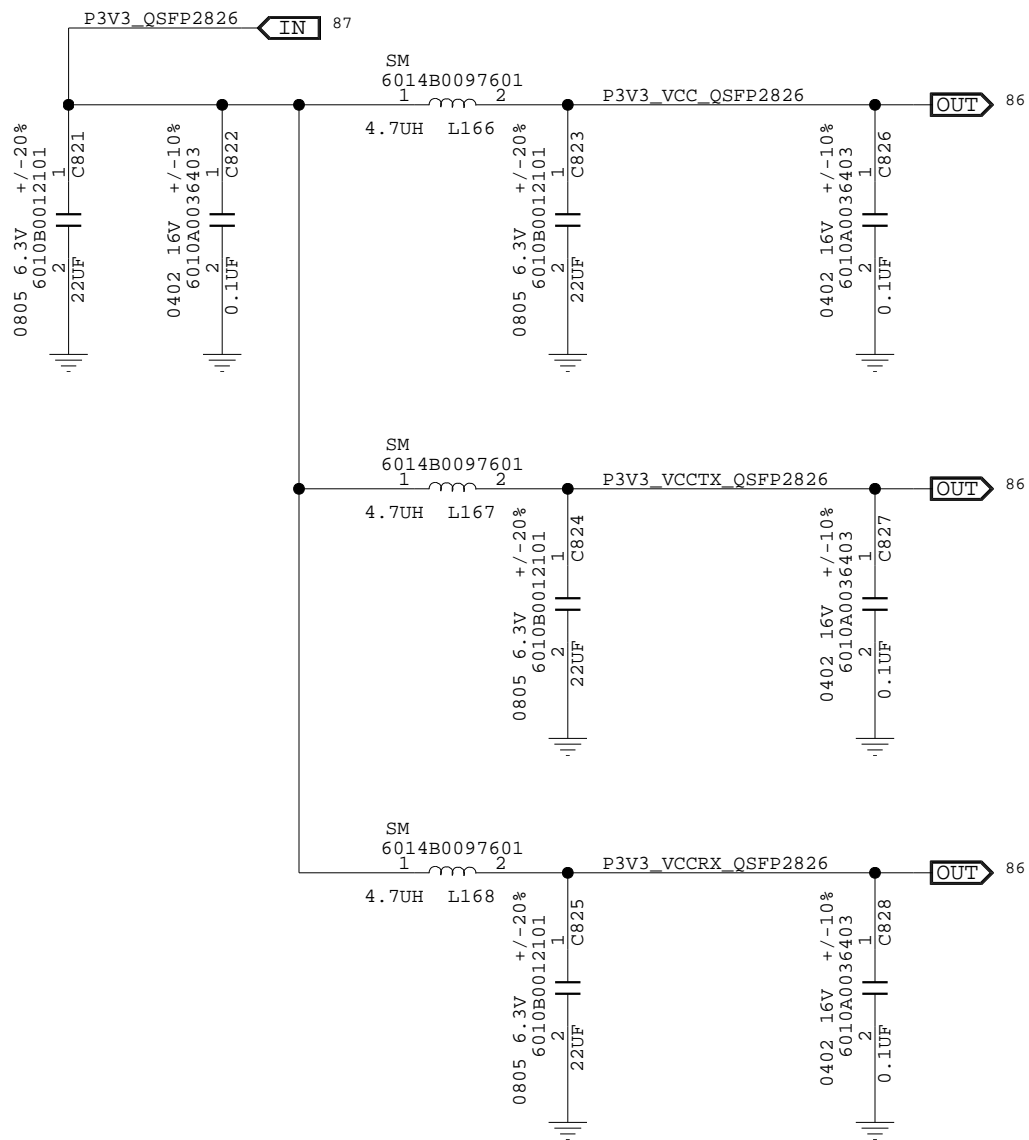
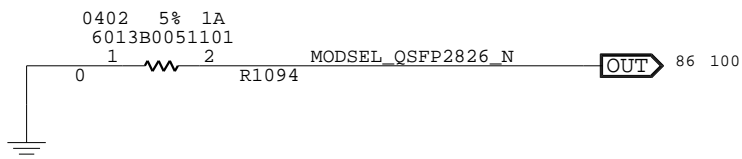
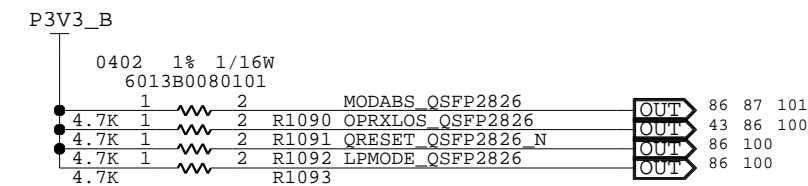
QSFP28 CONN - PORT 9



QSFP28 CONN - PORT 10



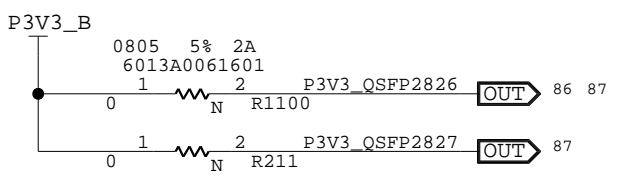
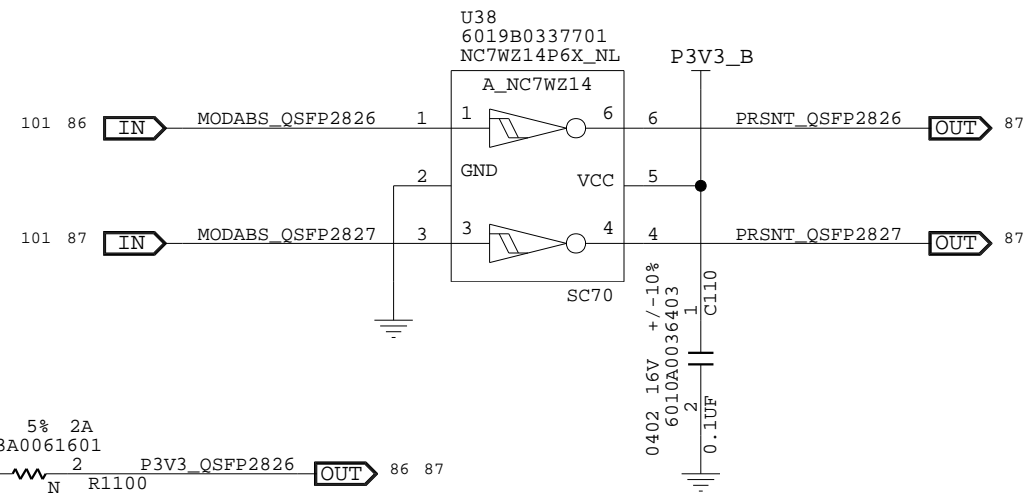
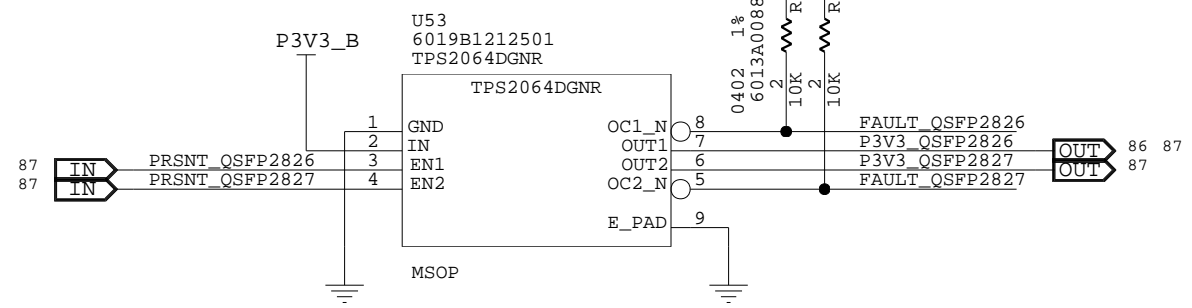
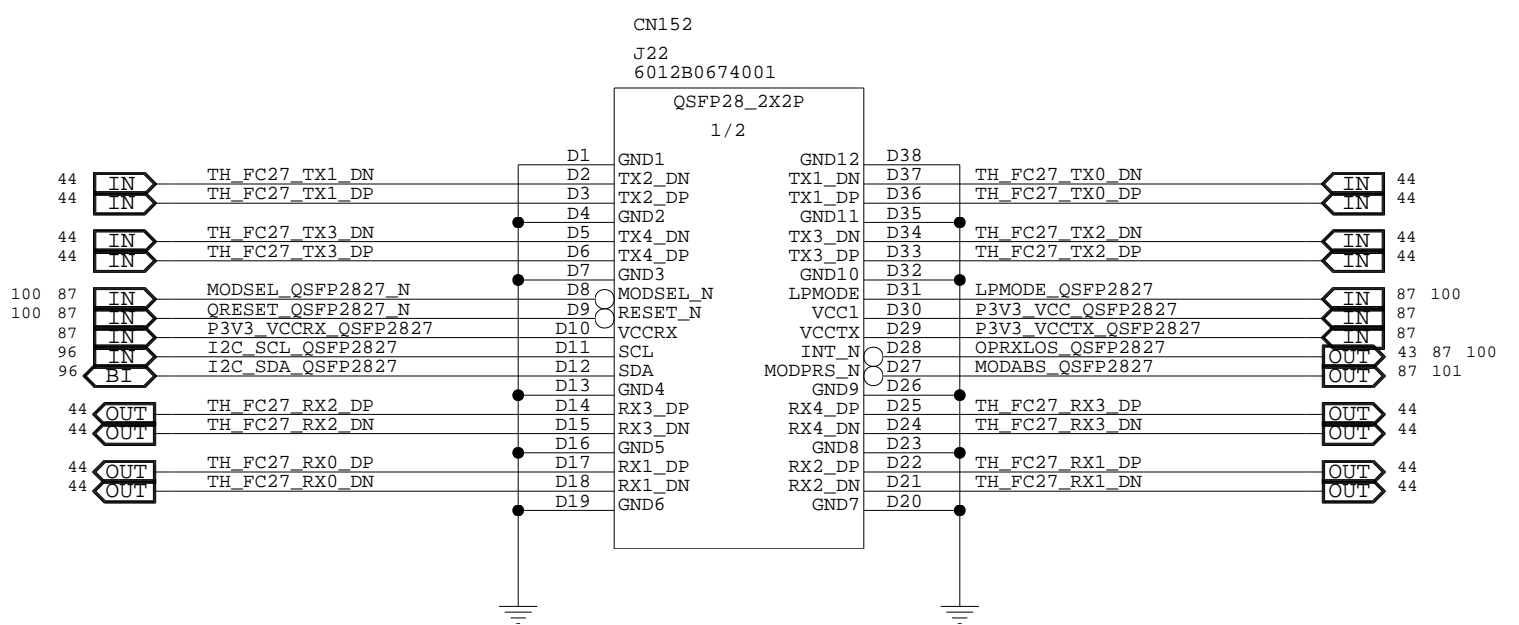
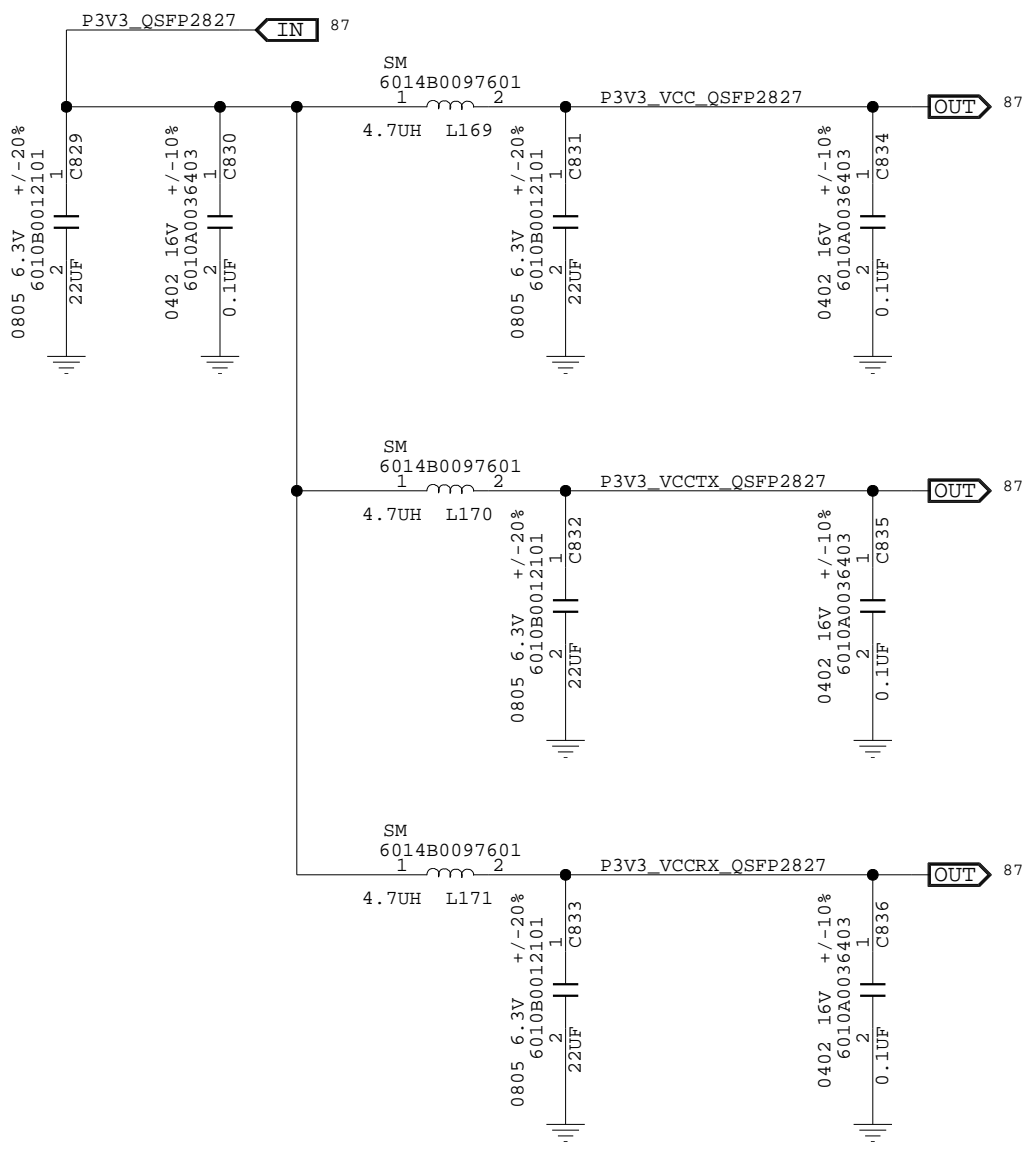
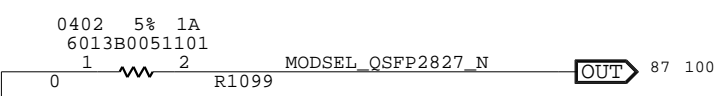
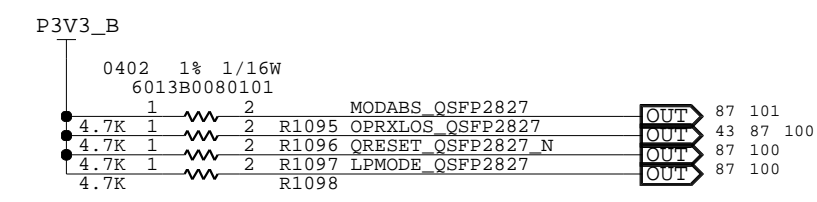
QSFP28 CONN - PORT 11



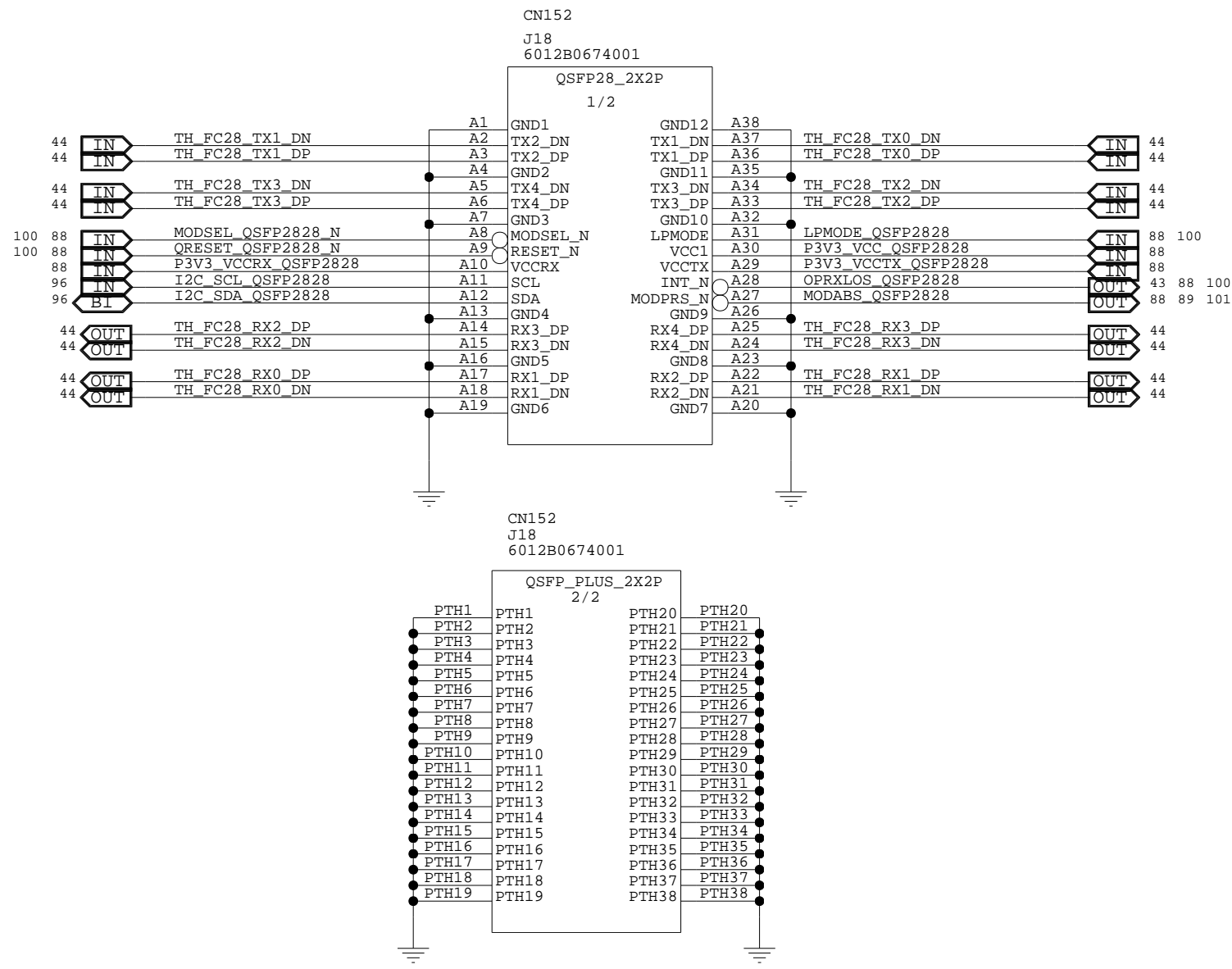
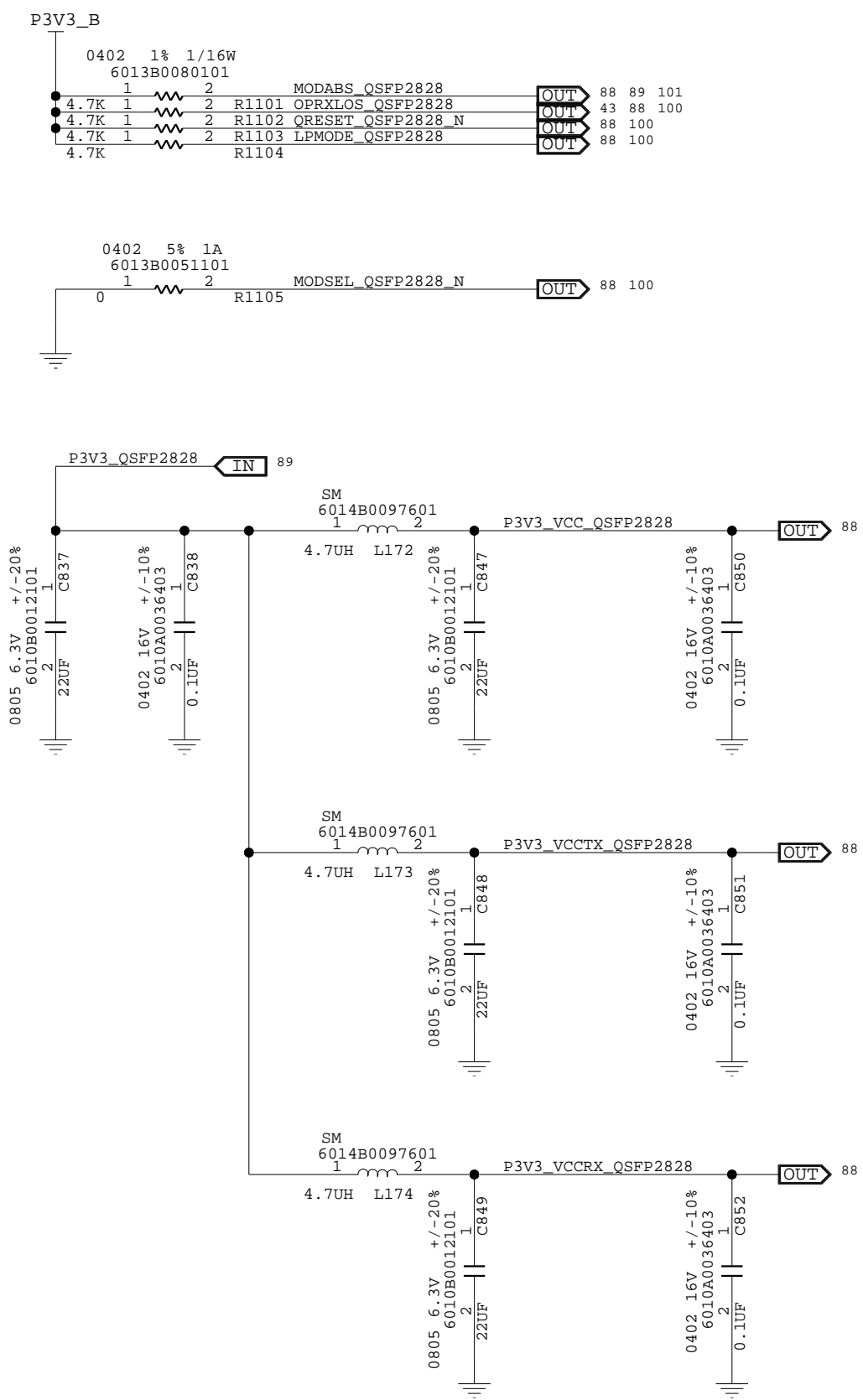
MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY		ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
		SHEET 86 OF 124	Thu Mar 19 10:35:47 2015			
		PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

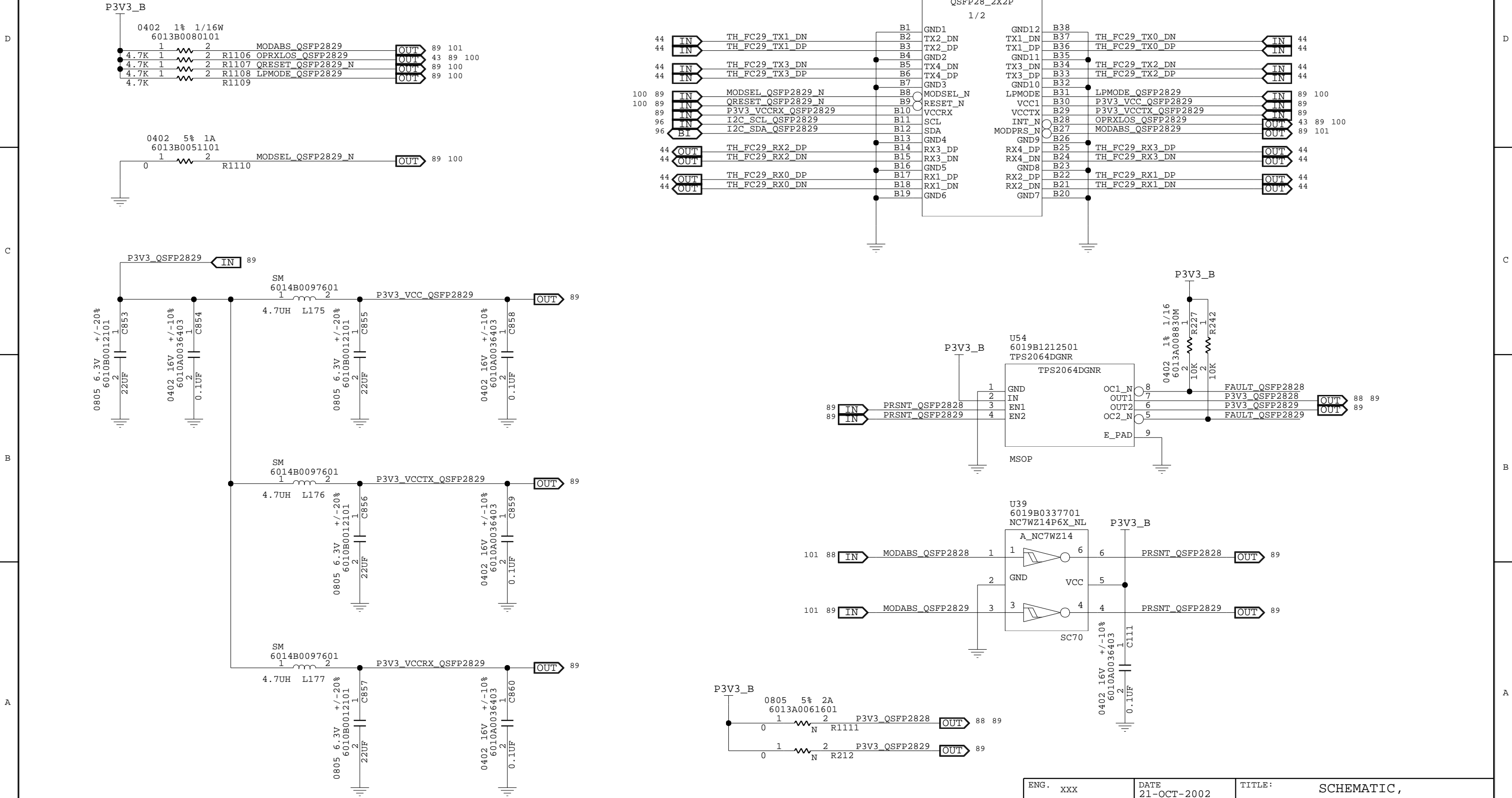
QSFP28 CONN - PORT 12



QSFP28 CONN - PORT 13



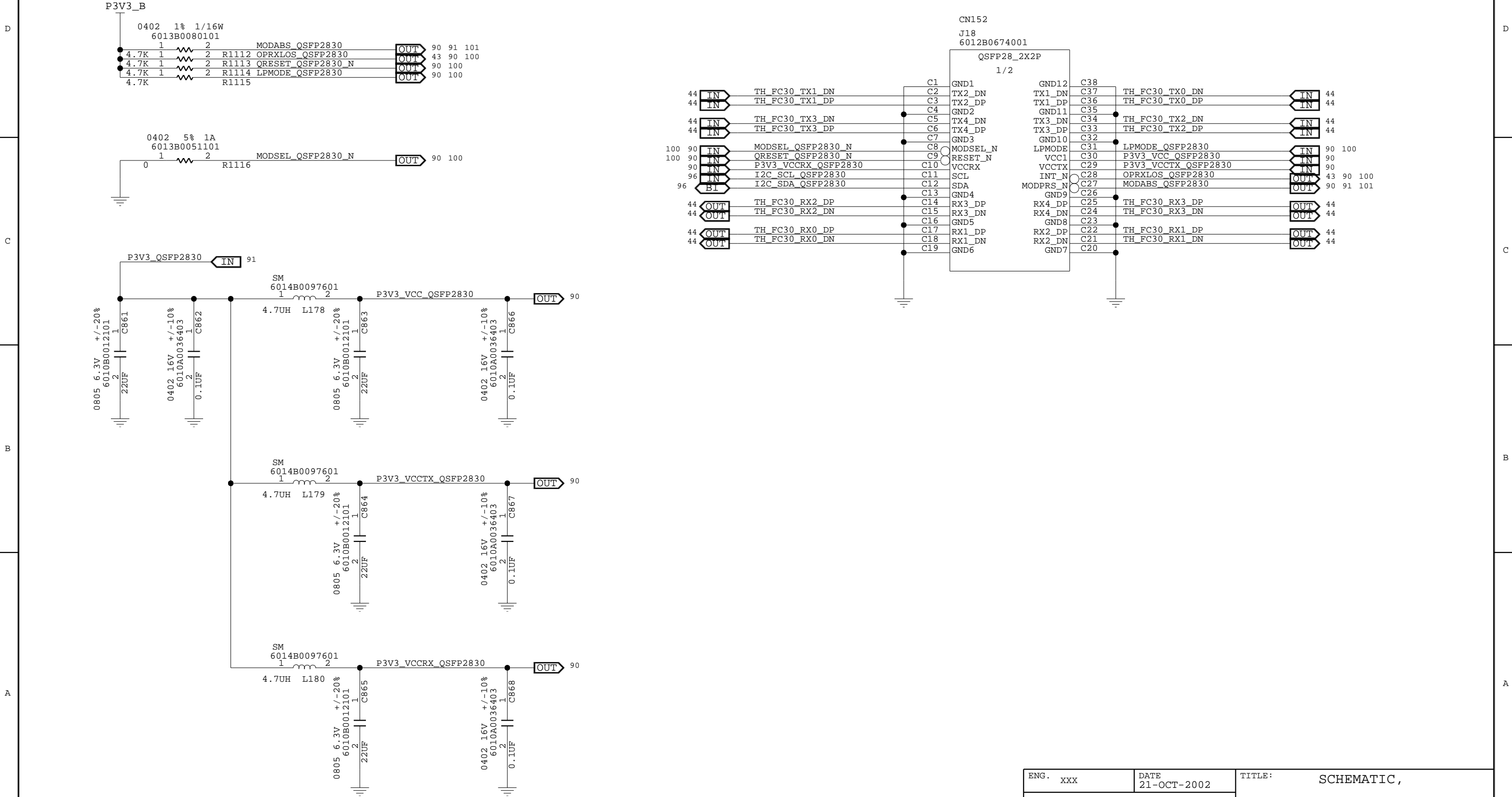
QSFP28 CONN - PORT 14



MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY	ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,		
	SHEET 89 OF 124	Thu Mar 19 10:36:05 2015	MODEL, PROJECT, FUNCTION		
	PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 CONN - PORT 15



QSFP28 CONN - PORT 16

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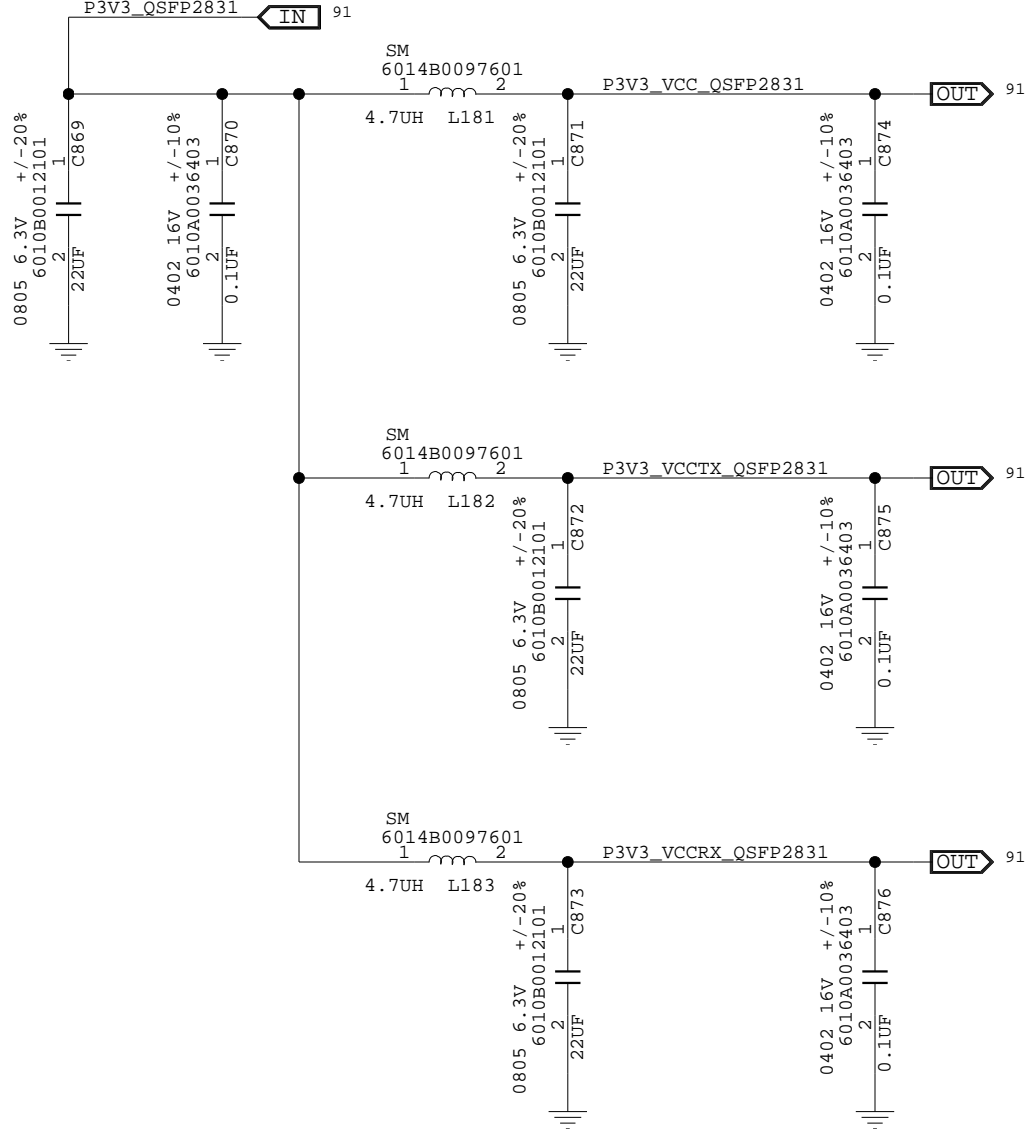
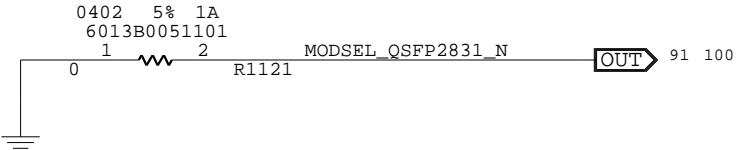
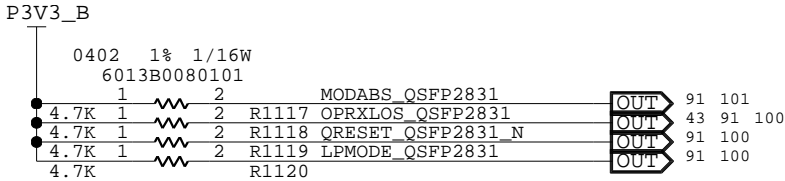
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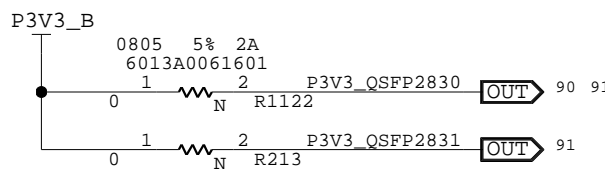
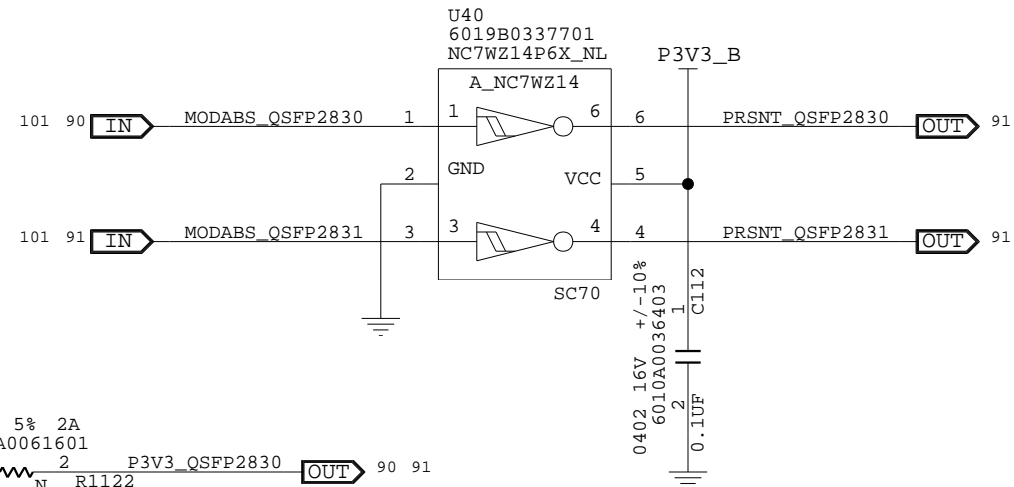
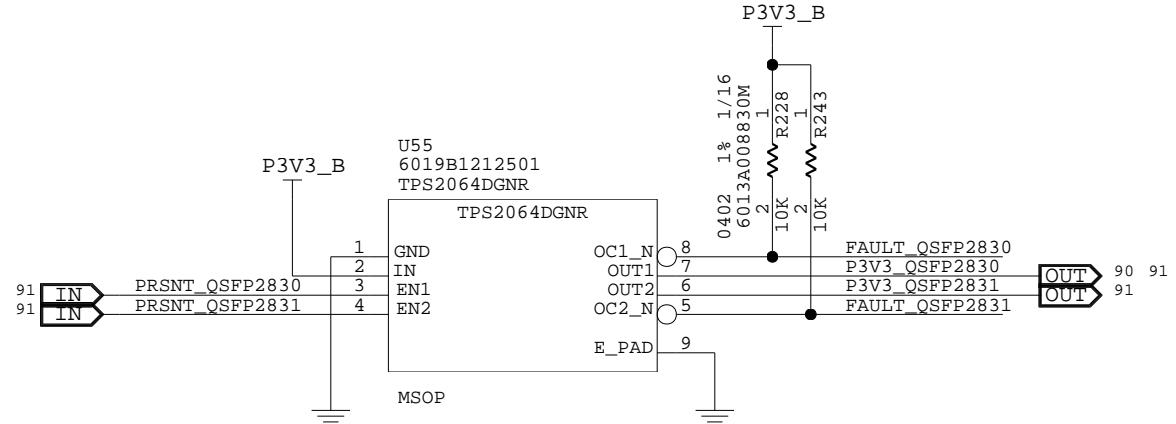
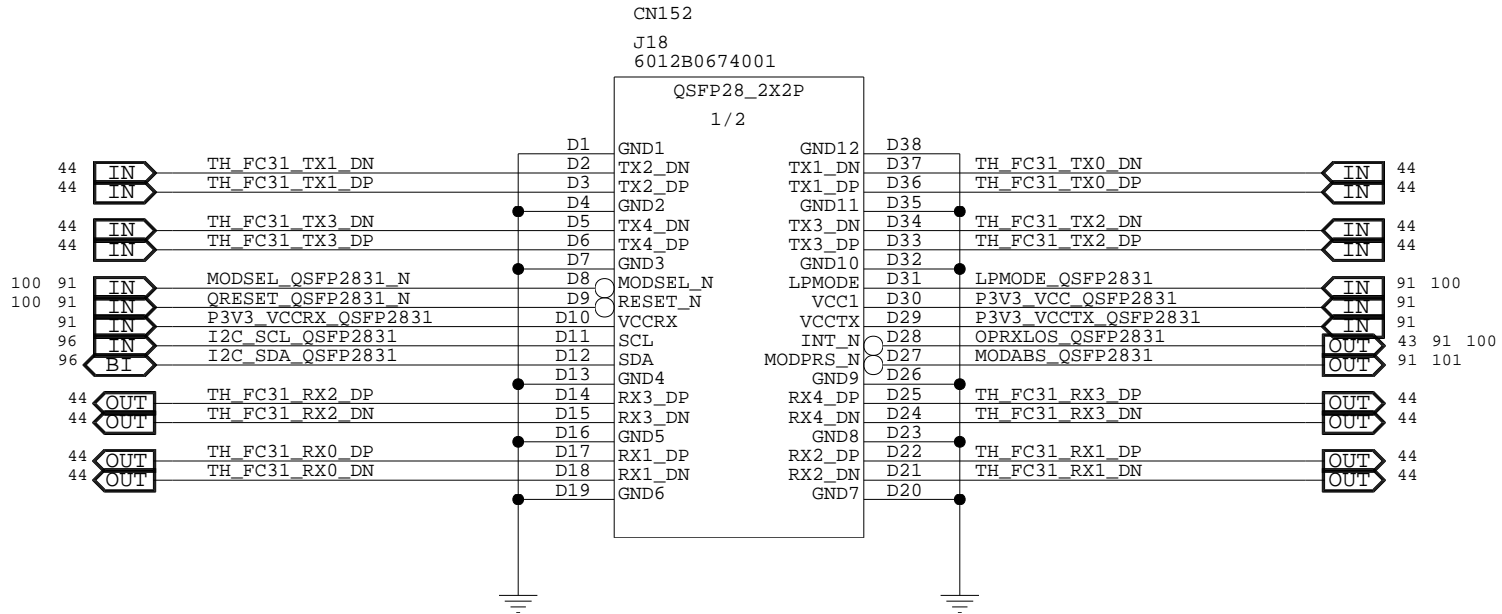
B

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MODULE=QSFP28

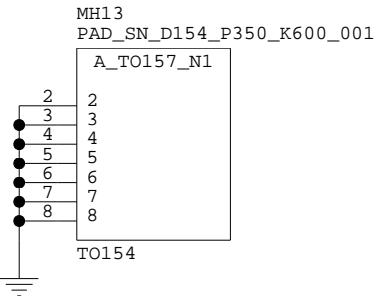
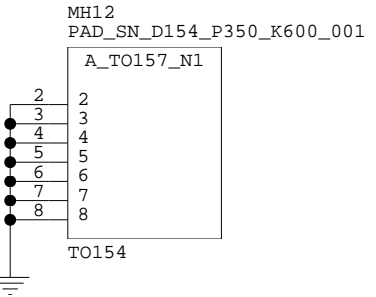
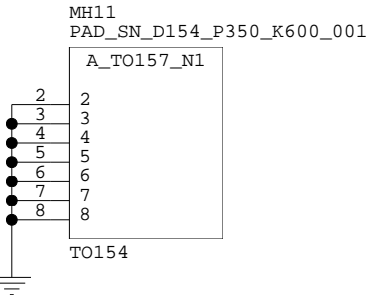
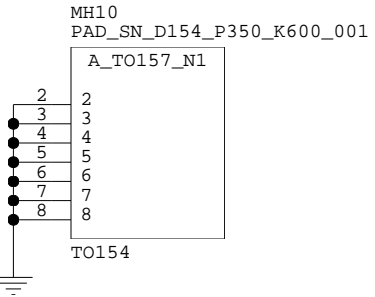
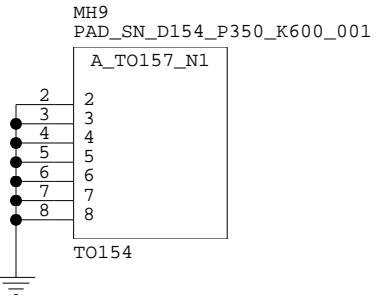
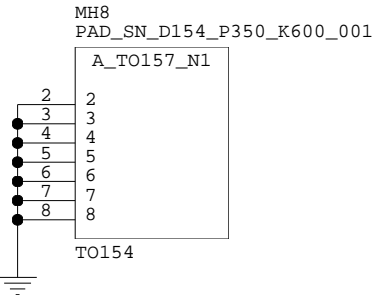
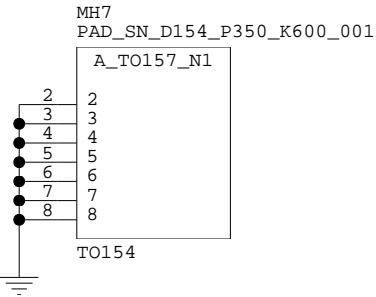
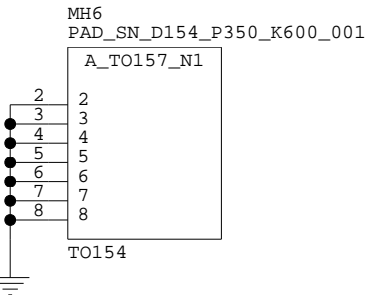
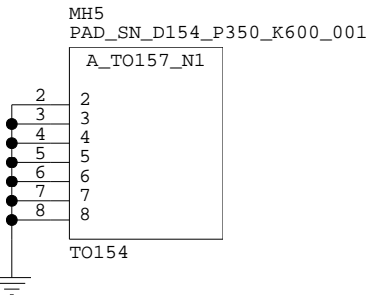
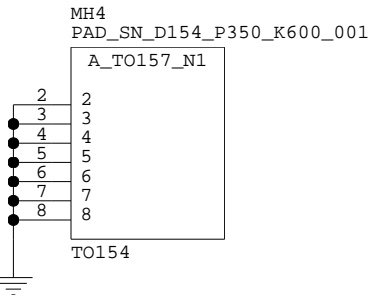
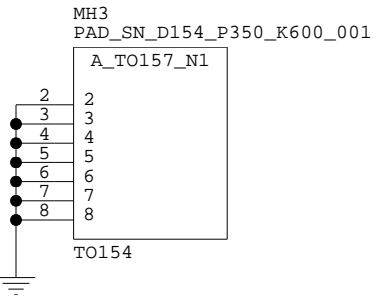
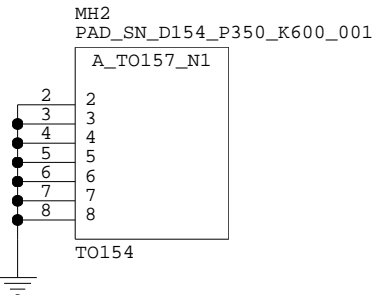
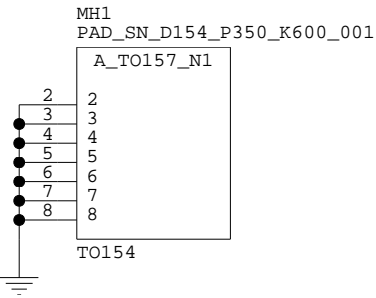
FUNCTION=---



ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,			
SHEET 91 OF 124	Thu Mar 19 10:36:16 2015	MODEL, PROJECT, FUNCTION			
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

INVENTEC CONFIDENTIAL DO NOT COPY

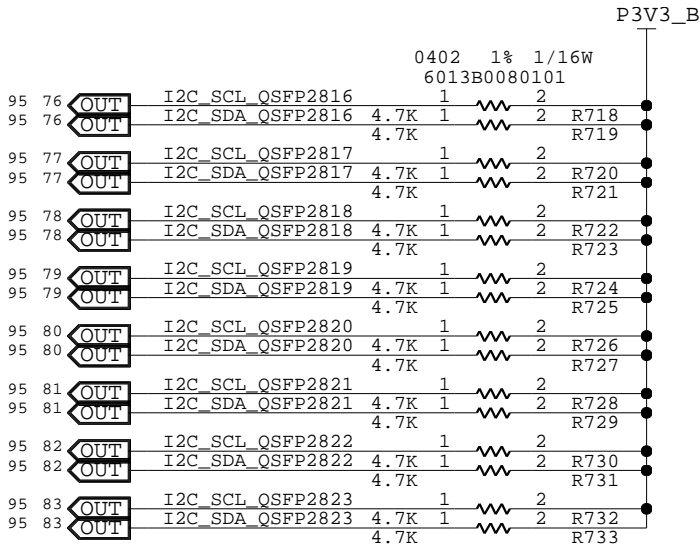
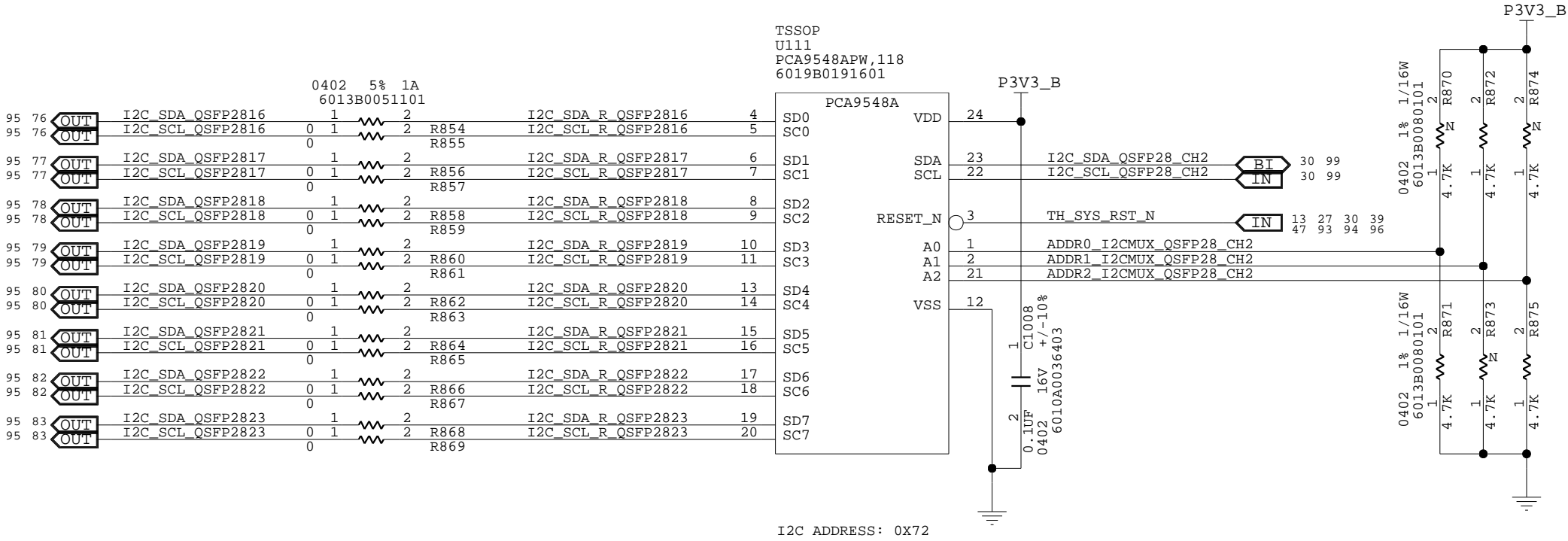
MOUNTING HOLES



MODULE=MOUNTING_HOLE
FUNCTION=MOUNTING HOLE

INVENTEC CONFIDENTIAL DO NOT COPY	PCB NUMBER	REV	SIZE	DOCUMENT NUMBER	REV
	6050A2737101	XXX	B	K-CS-1395A2737101-0-0	X01

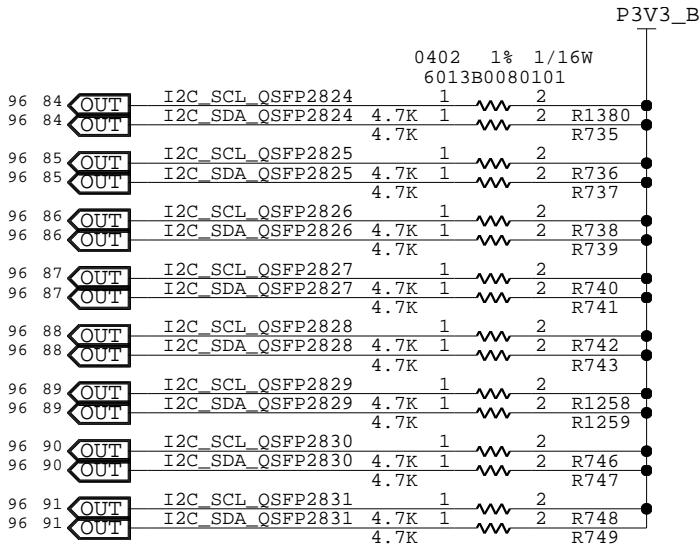
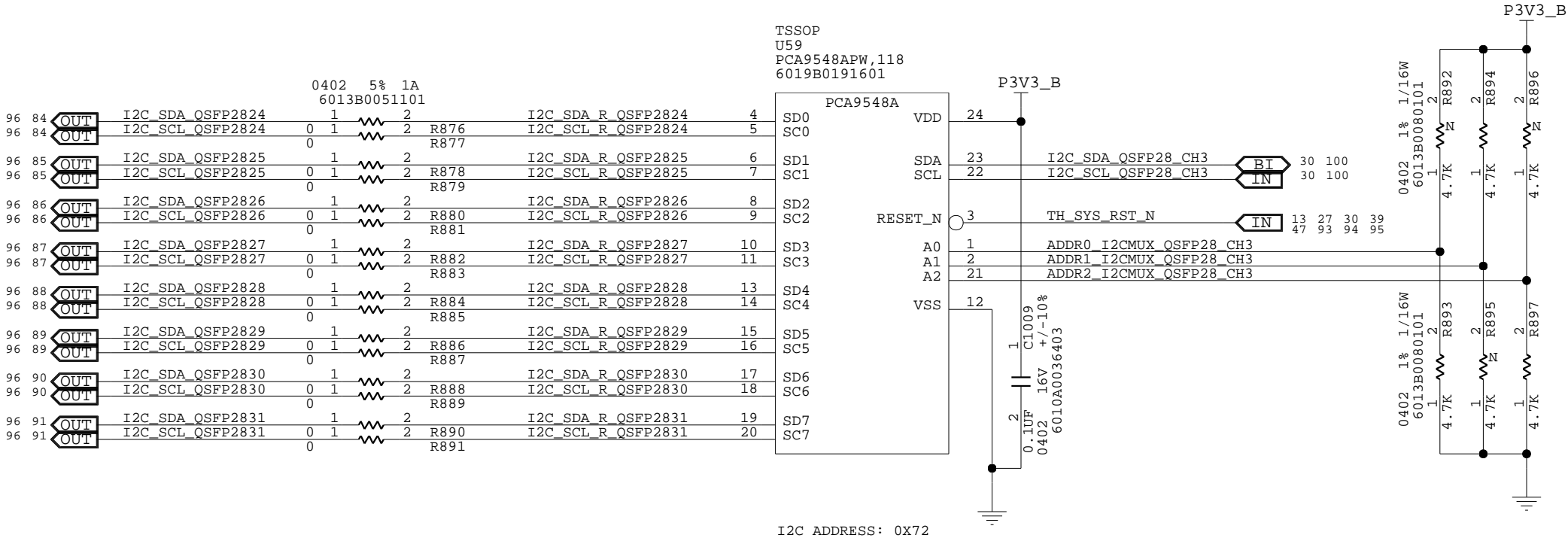
I2C MUX QSFP28 CH2



MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY	PCB NUMBER	REV	SIZE	DOCUMENT NUMBER	REV
	6050A2737101	XXX	B	K-CS-1395A2737101-0-0	X01

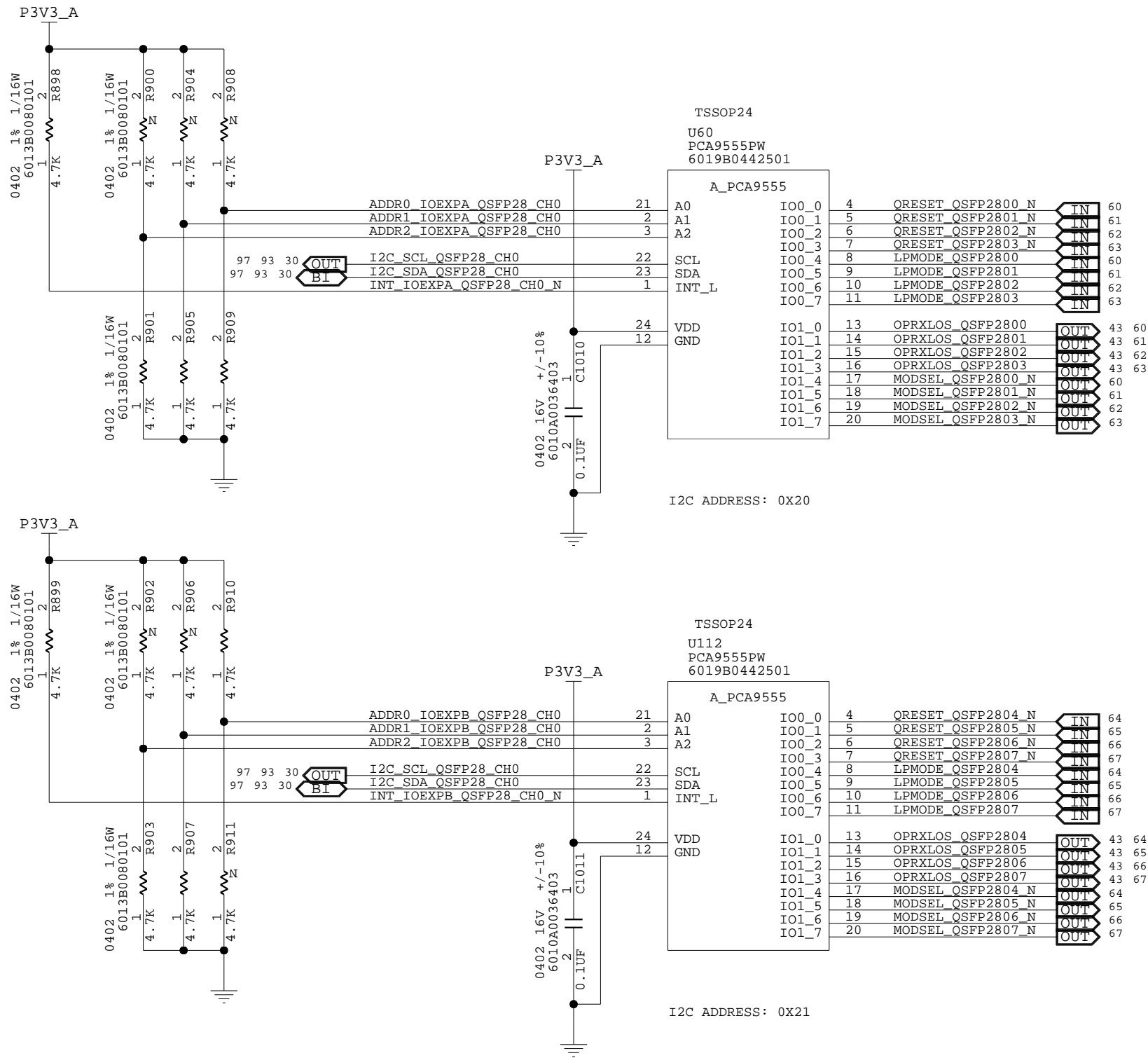
I2C MUX QSFP28 CH3



MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY	PCB NUMBER	REV	SIZE	DOCUMENT NUMBER	REV
	6050A2737101	XXX	B	K-CS-1395A2737101-0-0	X01

QSFP28 IO EXPANDER CH 0

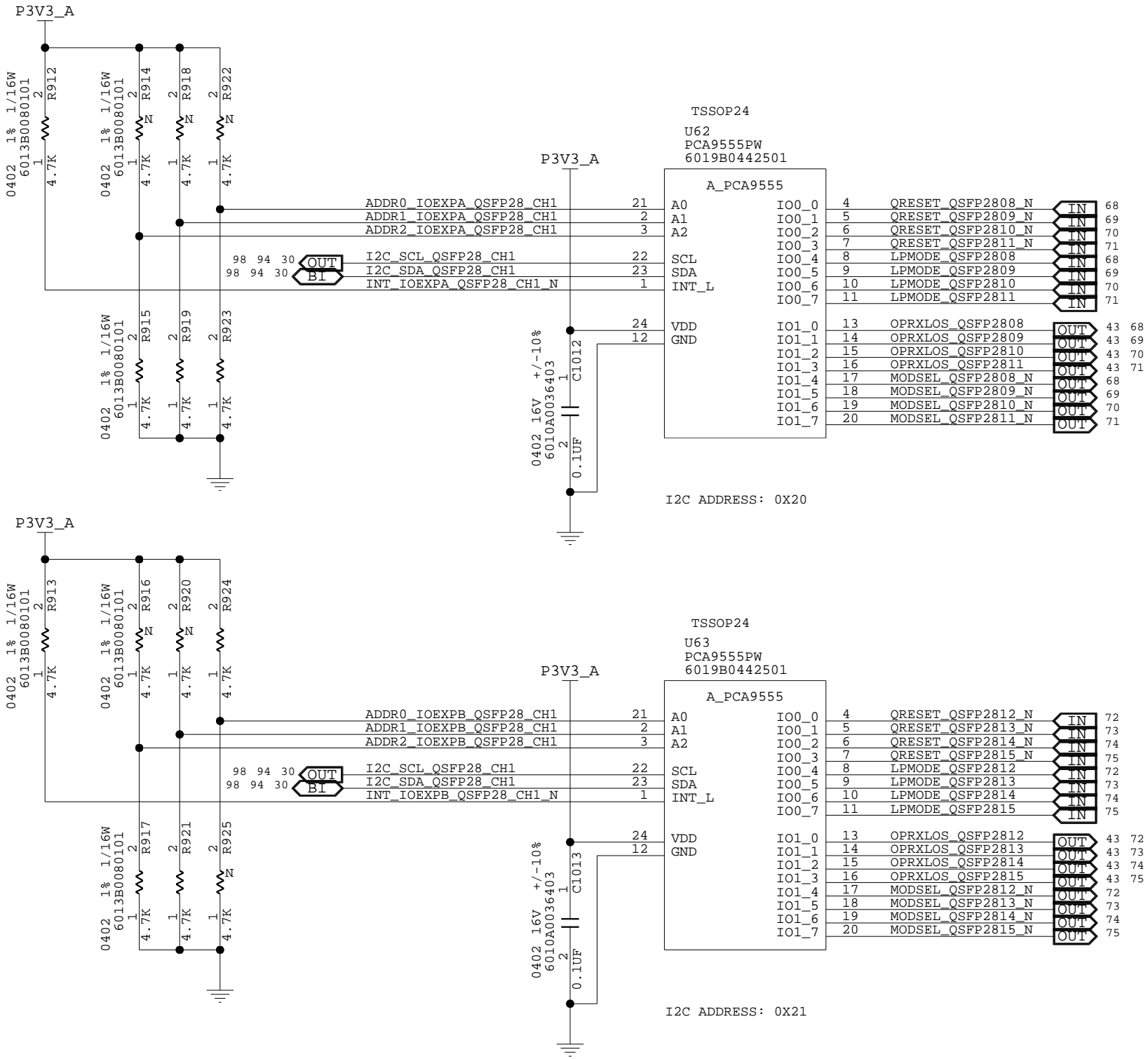


MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION			
SHEET 97 OF 124					
Tue Mar 10 09:39:51 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 IO EXPANDER CH 1

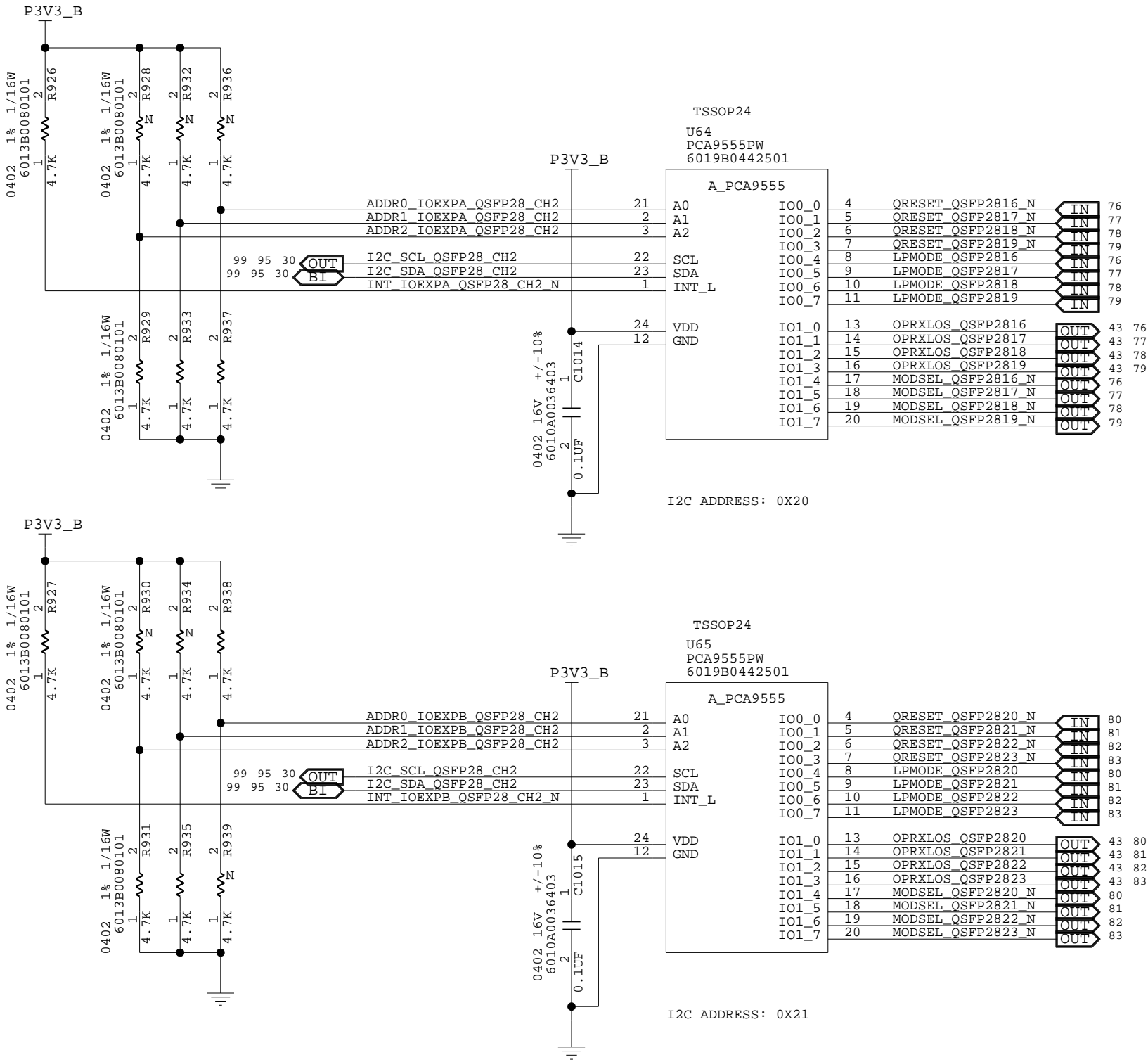


MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,			
SHEET 98 OF 124	MODEL, PROJECT, FUNCTION				
Tue Mar 10 09:39:52 2015					
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

QSFP28 IO EXPANDER CH 2

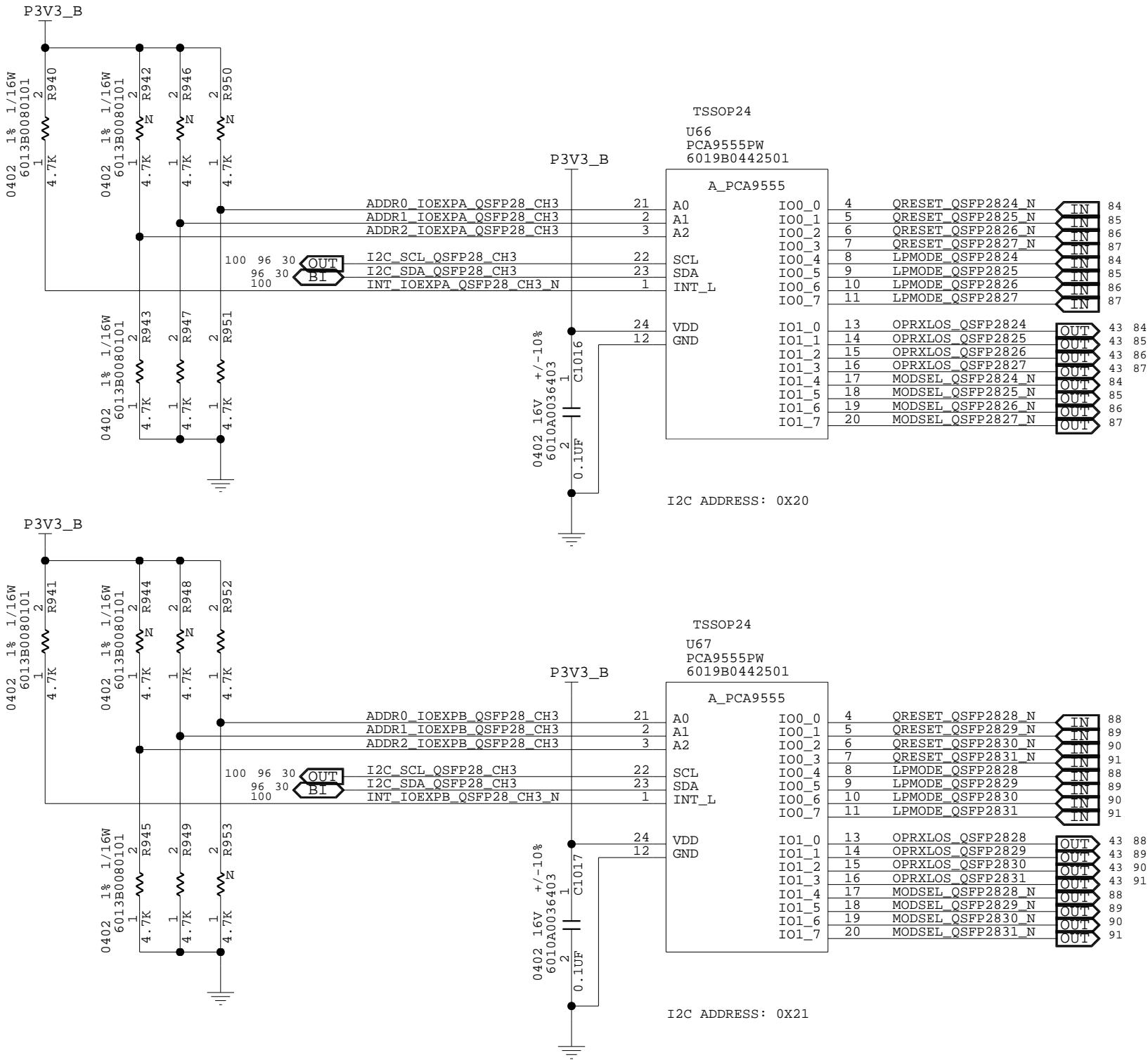


MODULE=QSFP28
FUNCTION=---

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 99 OF 124					
Tue Mar 10 09:39:52 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

QSFP28 IO EXPANDER CH 3

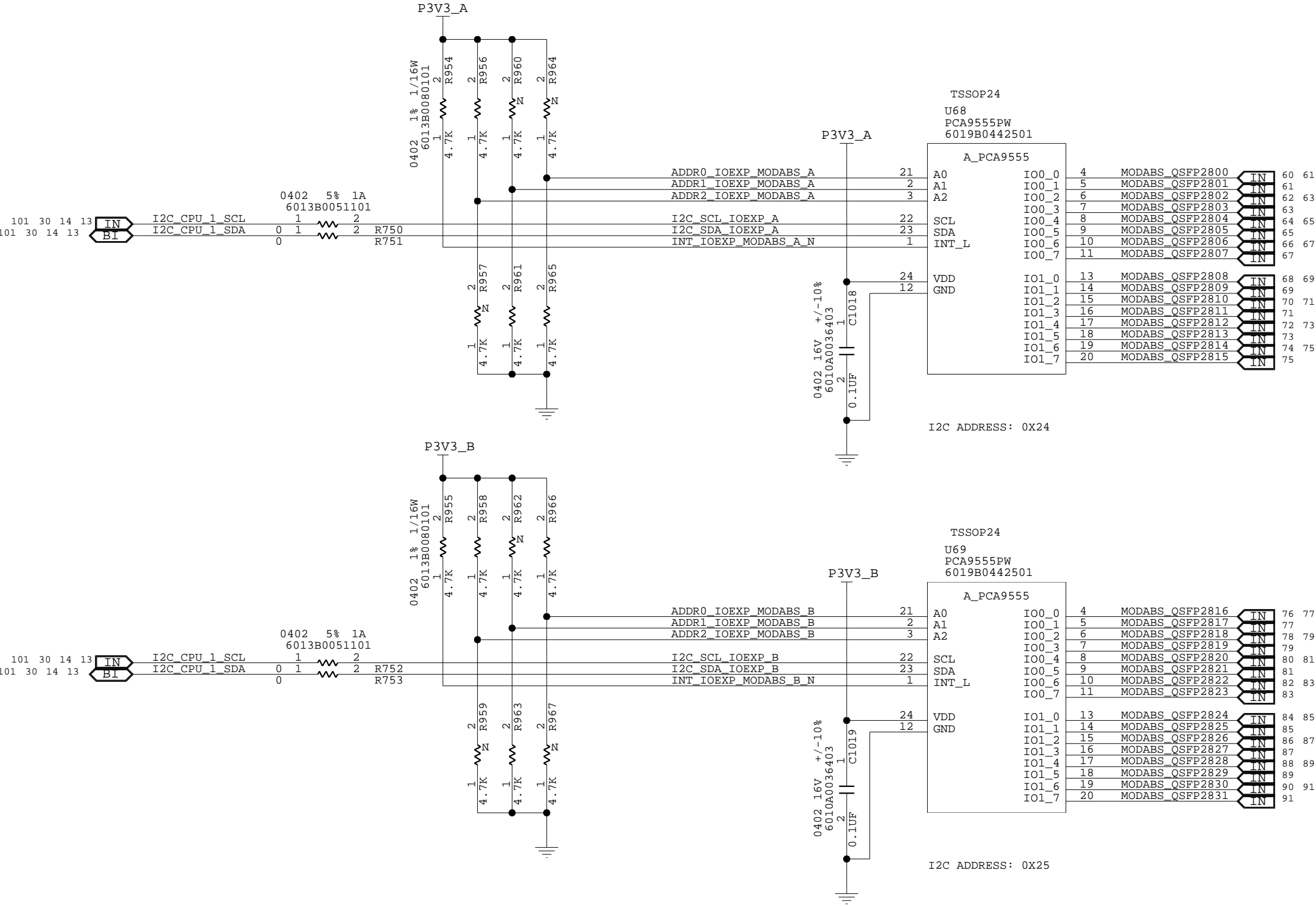


MODULE=QSFP28
FUNCTION=----

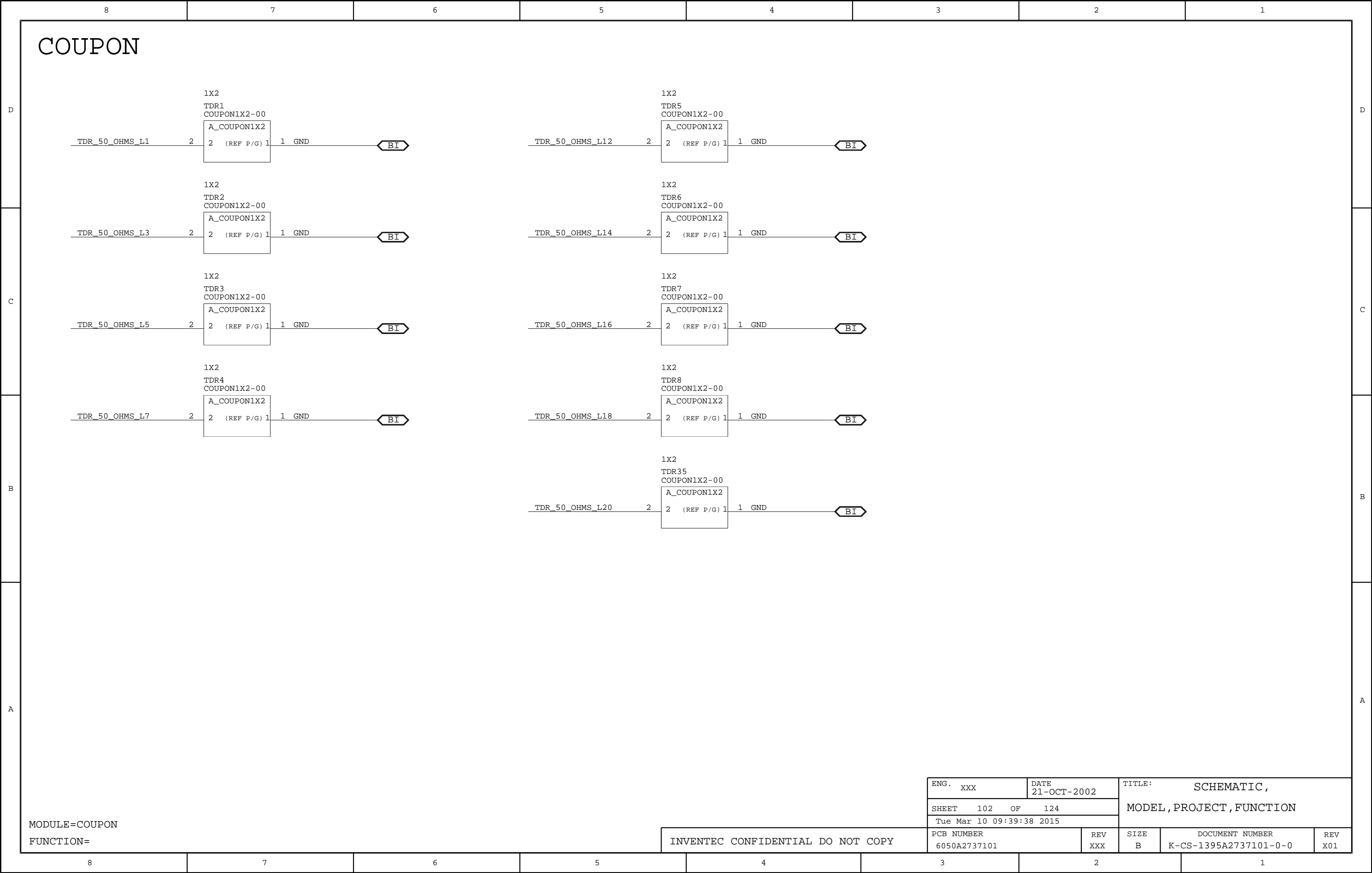
INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION			
SHEET 100 OF 124					
Tue Mar 10 09:39:52 2015					
PCB NUMBER 6050A2737101		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

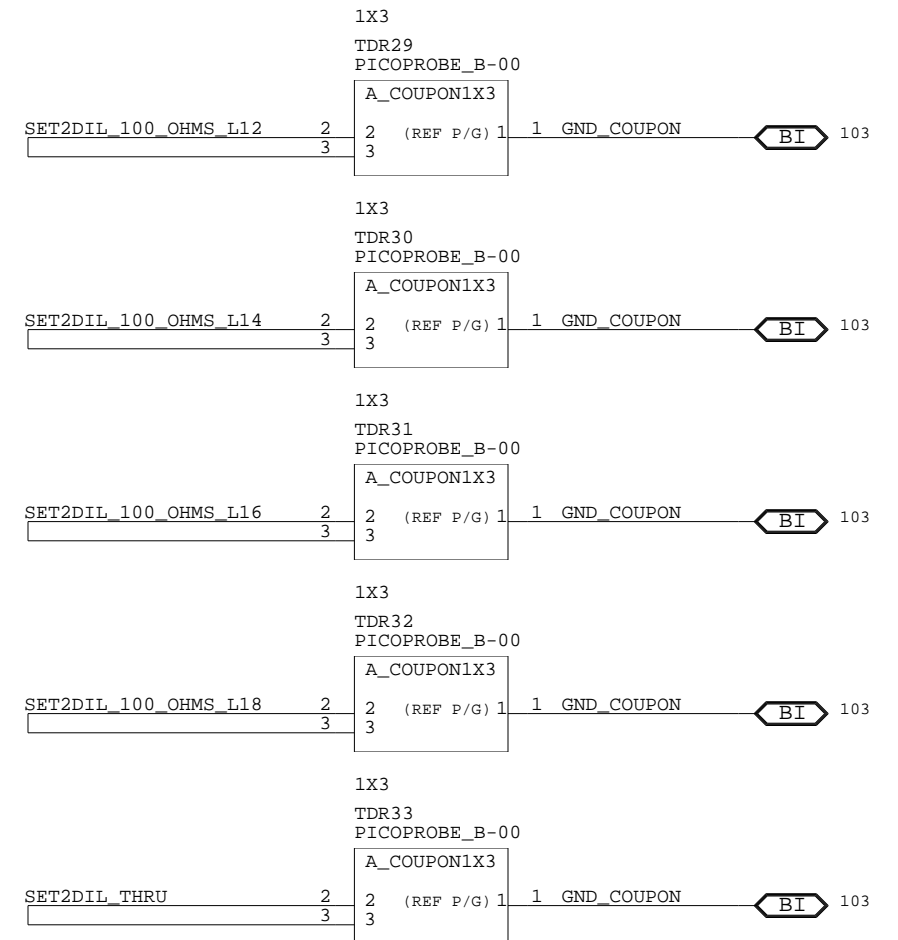
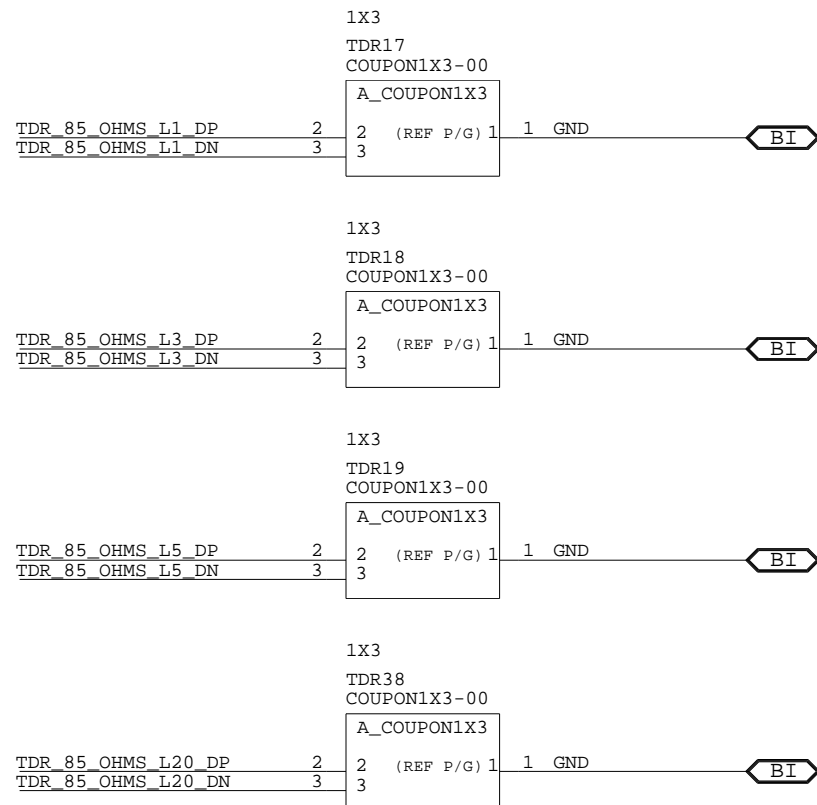
QSFP28 MODABS IO EXPANDER



MODULE=QSFP28
FUNCTION=---



COUPON



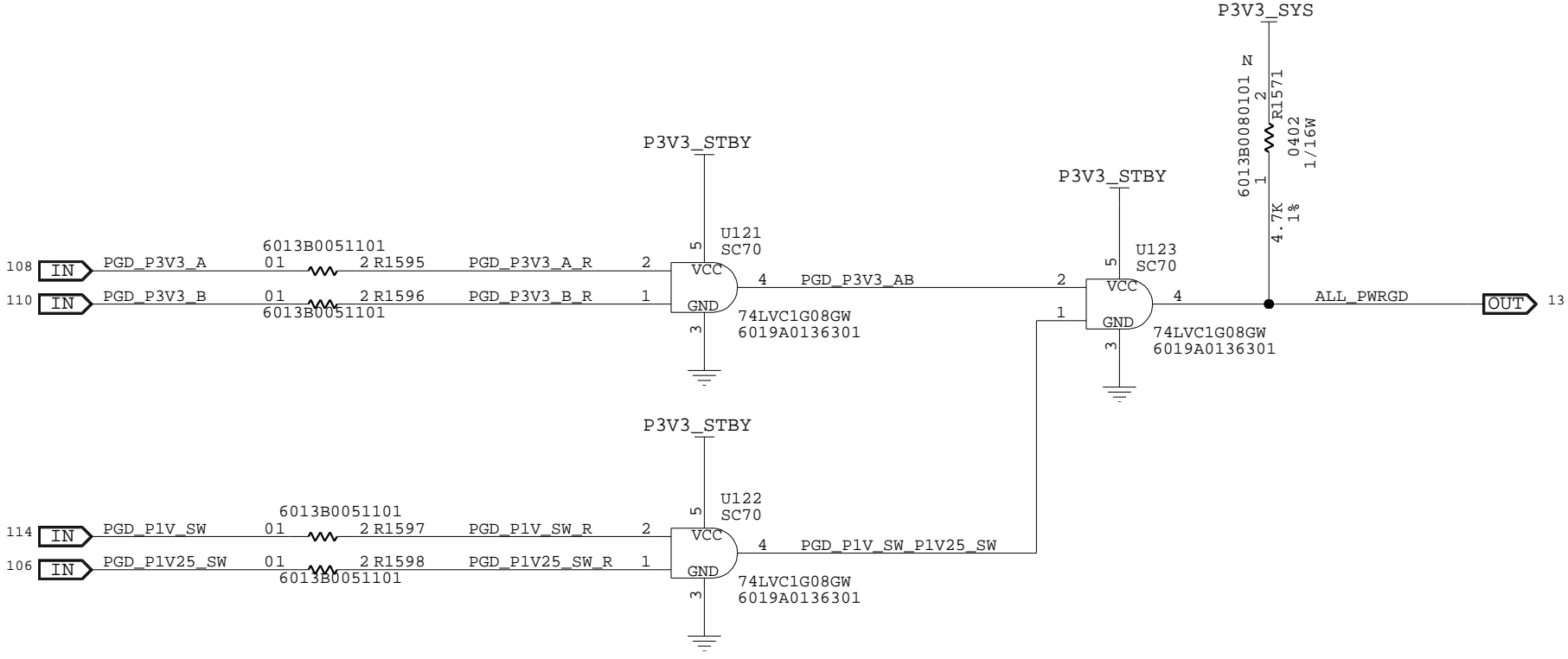
ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION		
SHEET 103 OF 124				
Tue Mar 10 09:39:38 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

MODULE=COUPON
FUNCTION=

INVENTEC CONFIDENTIAL DO NOT COPY

8	7	6	5	4	3	2	1				
COUPON											
D							D				
C							C				
B							B				
A							A				
MODULE=RESERVED						ENG. XXX		DATE 21-OCT-2002	TITLE: SCHEMATIC ,		
FUNCTION=						SHEET 104 OF 124		MODEL , PROJECT , FUNCTION			
						Tue Mar 10 09:37:47 2015		REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01
INVENTEC CONFIDENTIAL DO NOT COPY						PCB NUMBER 6050A2737101					
8	7	6	5	4	3	2	1				

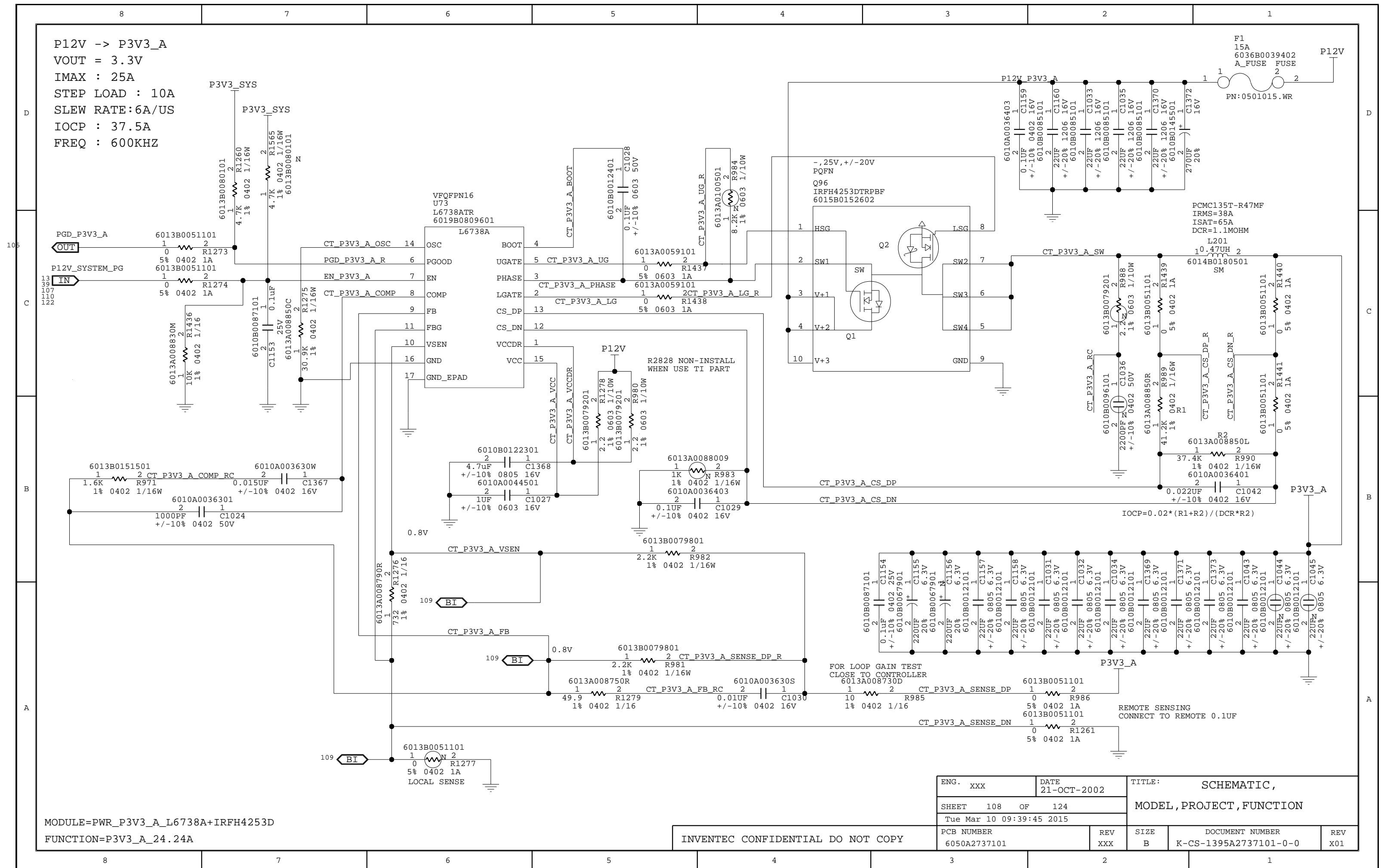
ALL POWER GOOD



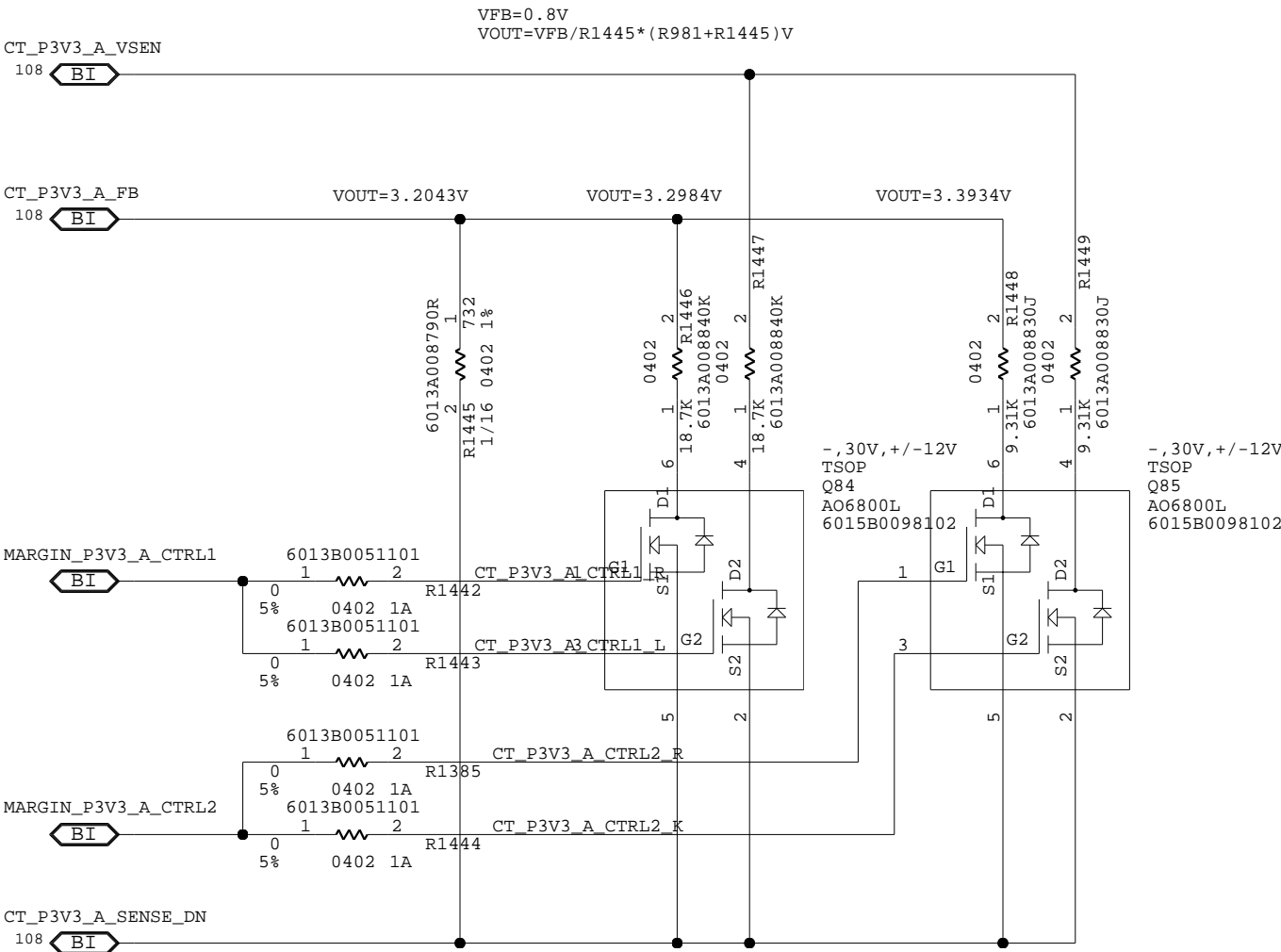
MODULE=RESERVED
FUNCTION=

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 105 OF 124	Tue Mar 10 09:39:38 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	



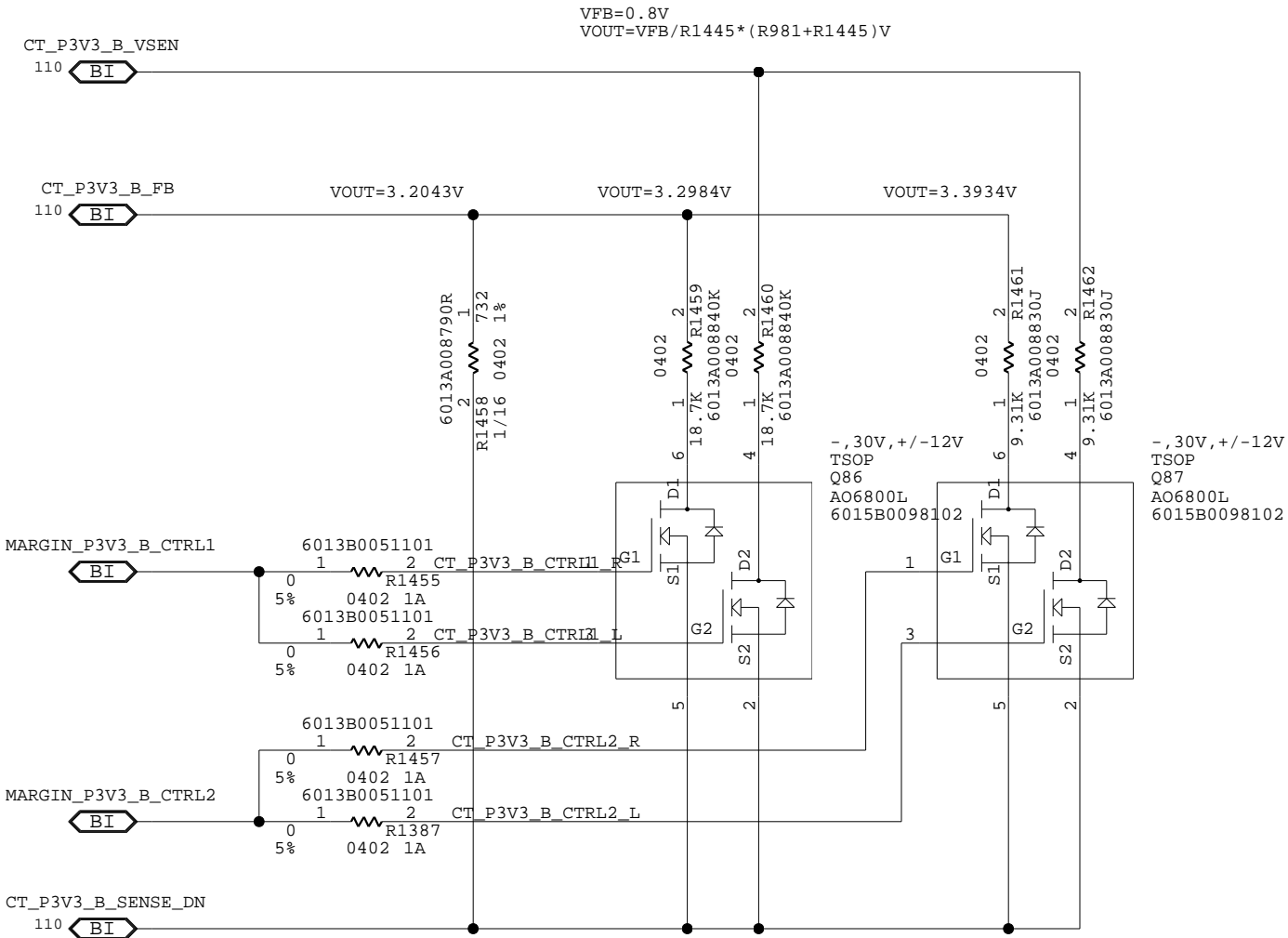
RESERVED



MODULE=PWR_P3V3_A_L6738A+IRFH4253D
FUNCTION=P3V3_A_VOLTAGE_MARGIN

INVENTEC CONFIDENTIAL DO NOT COPY				ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC , MODEL ,PROJECT ,FUNCTION			
				SHEET 109 OF 124	Tue Mar 10 09:39:30 2015				
				PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

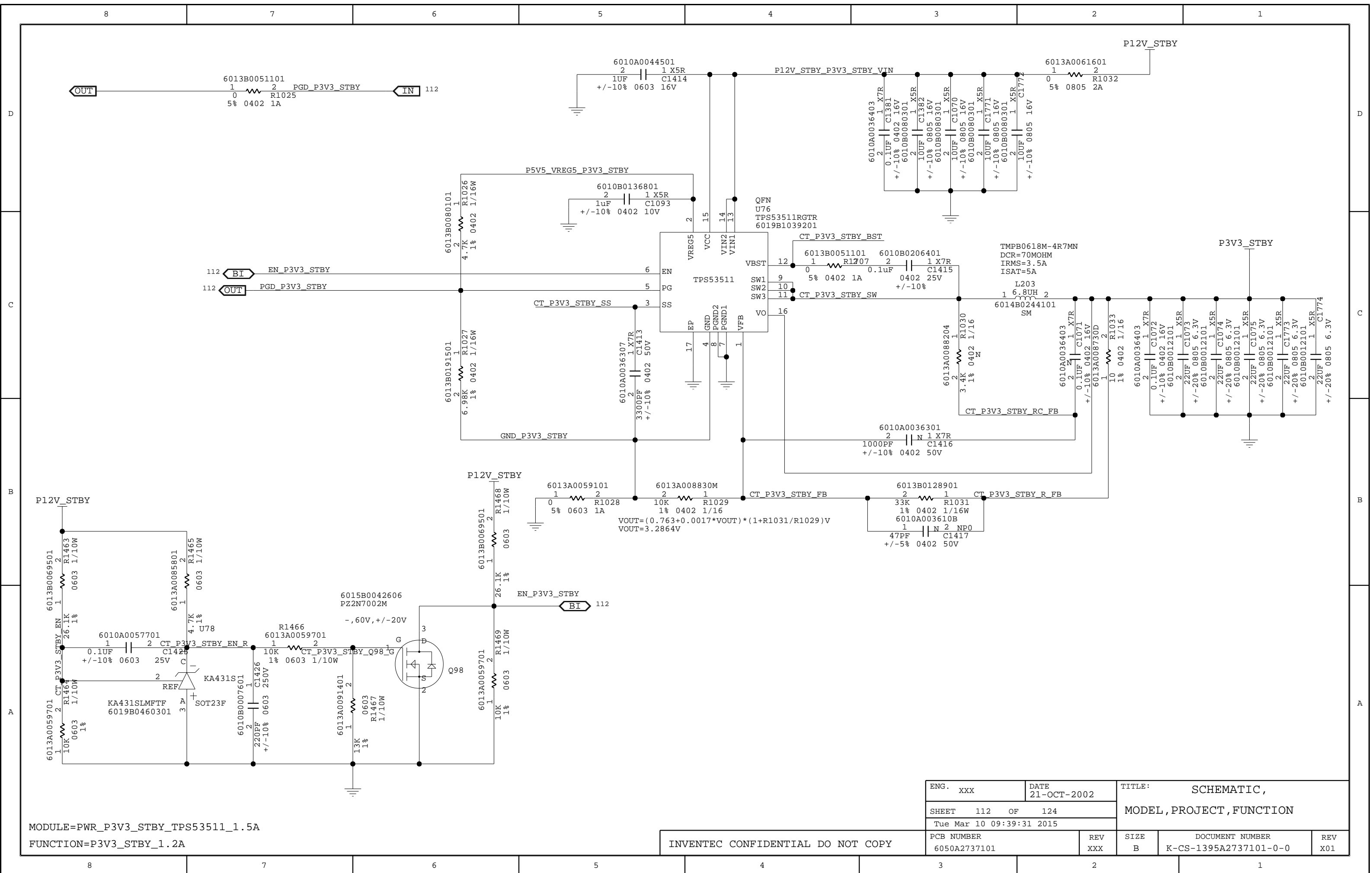
RESERVED

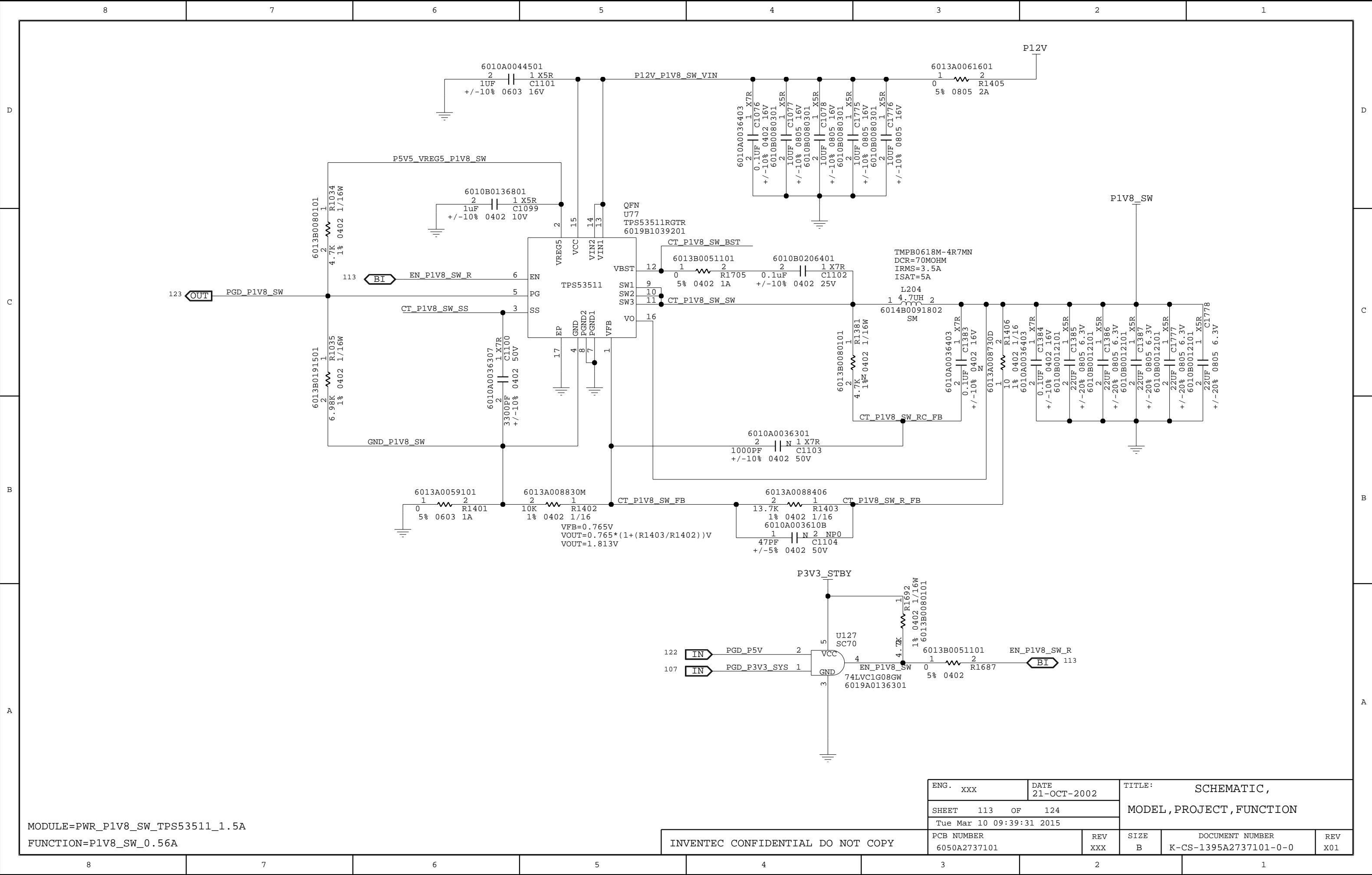


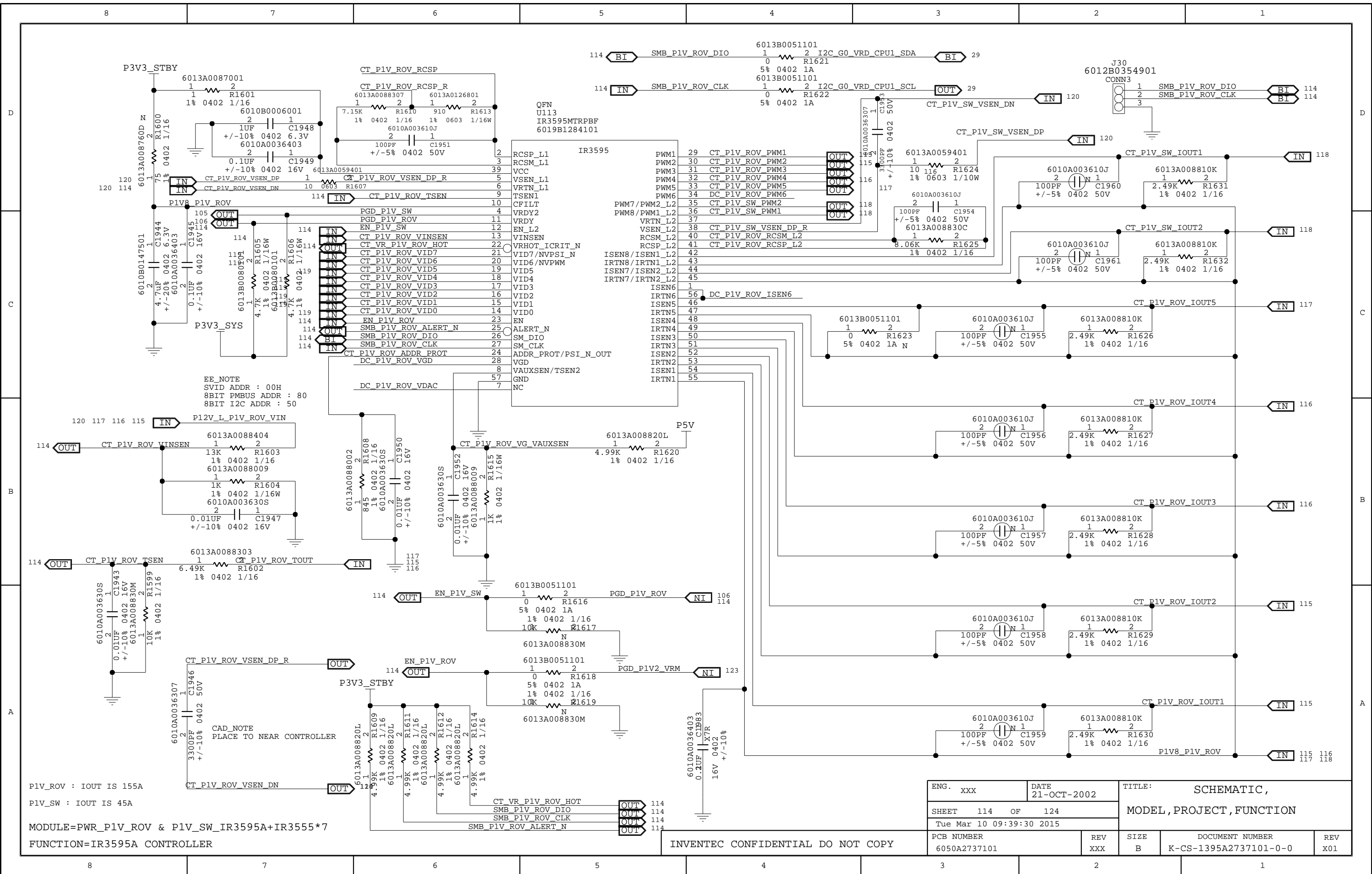
MODULE=PWR_P3V3_B_L6738A+IRFH4235D
FUNCTION=P3V3_B_VOLTAGE_MARGIN

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX		DATE 21-OCT-2002		TITLE: SCHEMATIC, MODEL,PROJECT,FUNCTION		
SHEET 111 OF 124						
Tue Mar 10 09:39:30 2015						
PCB NUMBER 6050A2737101		REV XXX		SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01







PIV_ROV : IOUT IS 155A

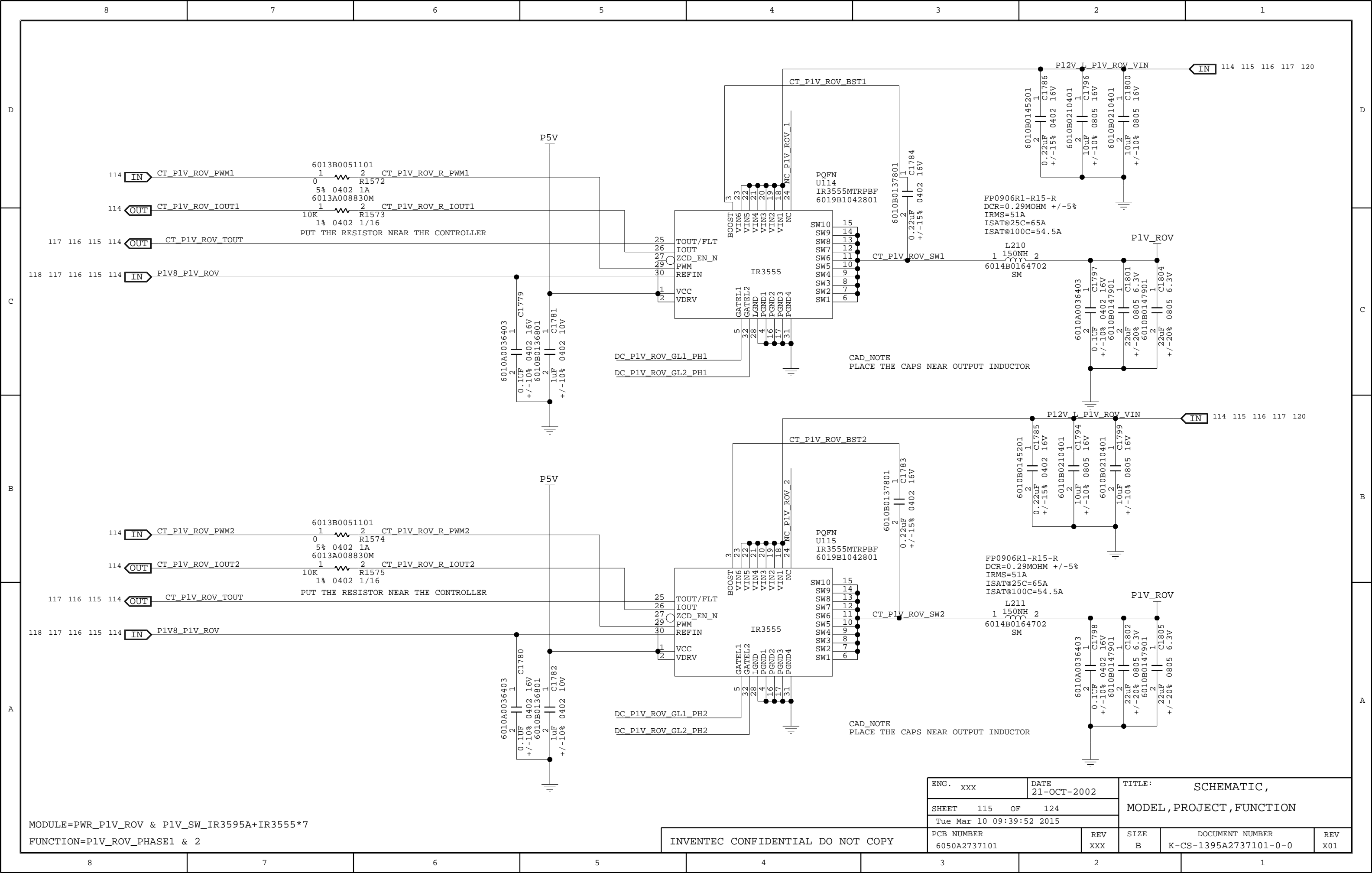
PIV_SW : IOUT IS 45A

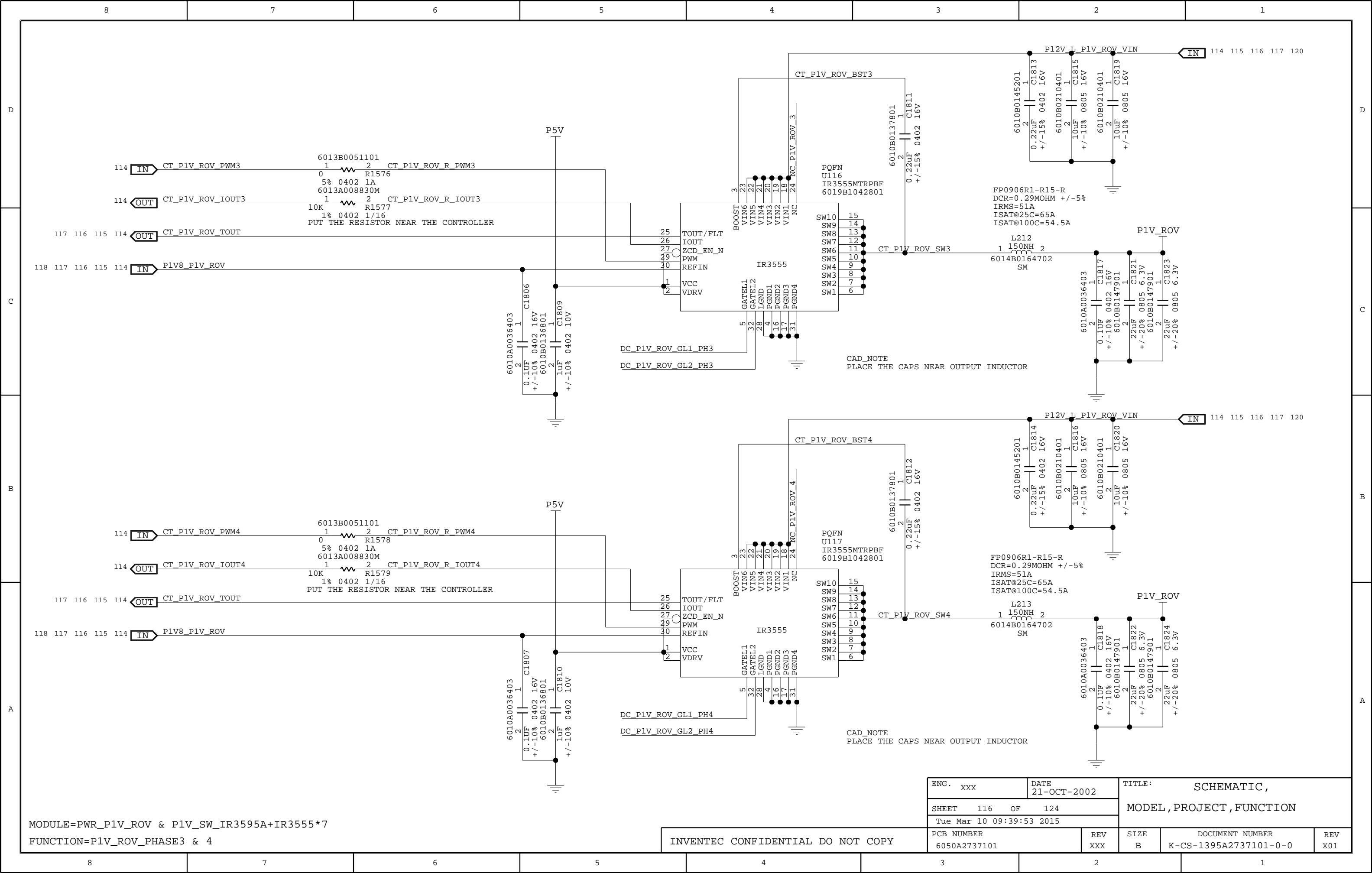
MODULE=PWR_PIV_ROV & PIV_SW_IR3595A+IR3555*7

FUNCTION=IR3595A CONTROLLER

INVENTEC CONFIDENTIAL DO NOT COPY

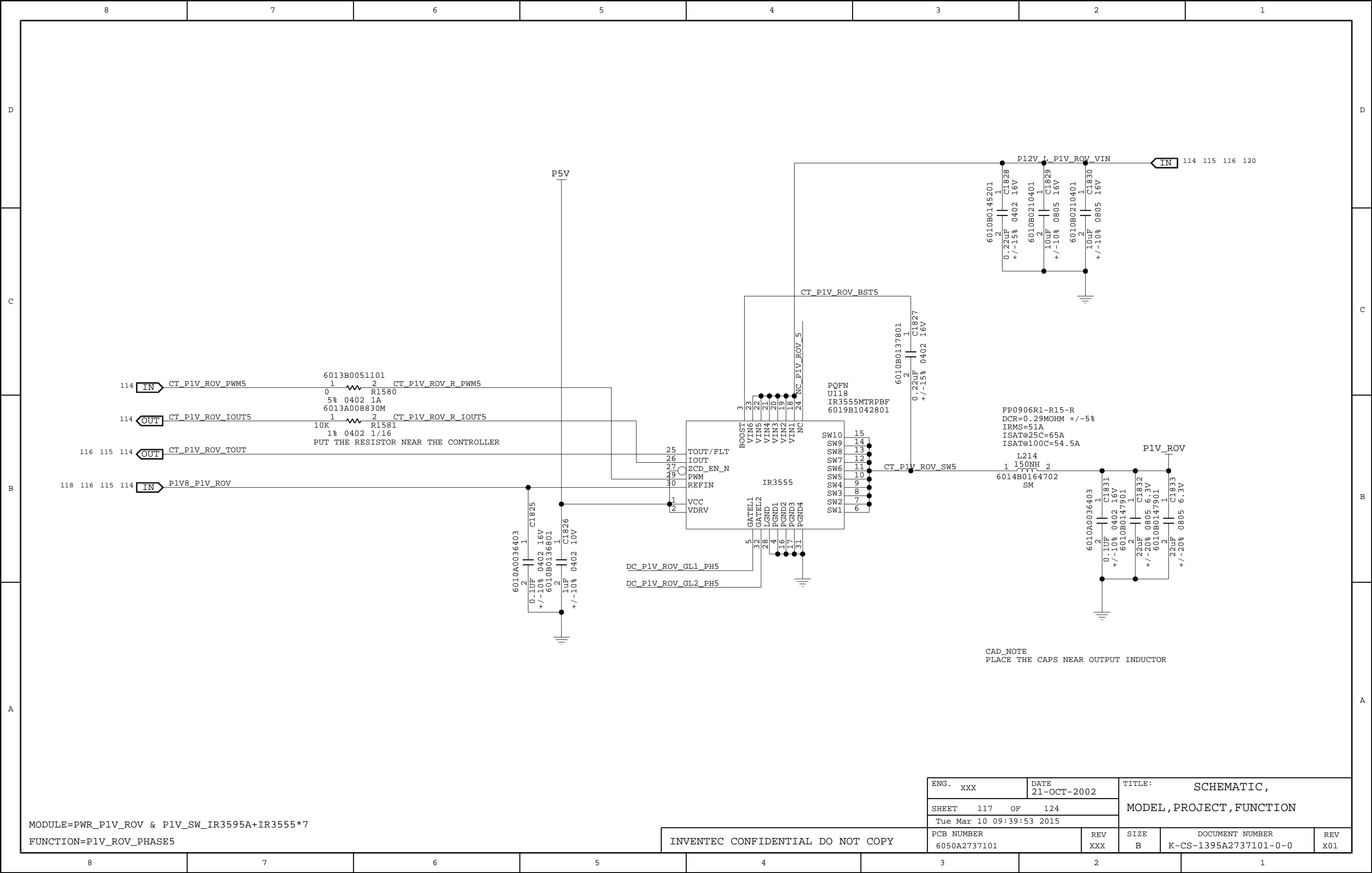
ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION			
SHEET 114	OF 124				
Tue Mar 10 09:39:30 2015					
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01	

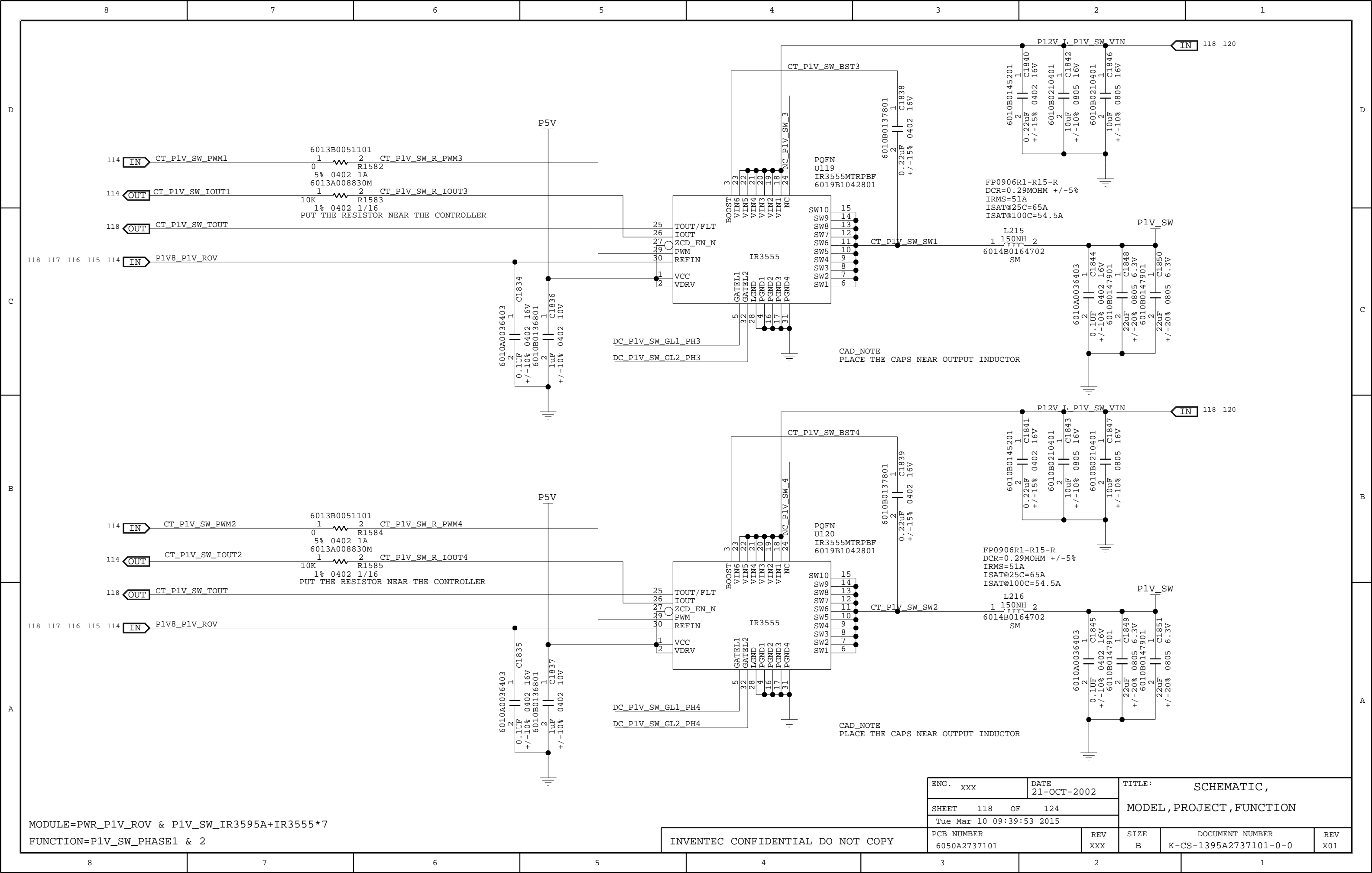




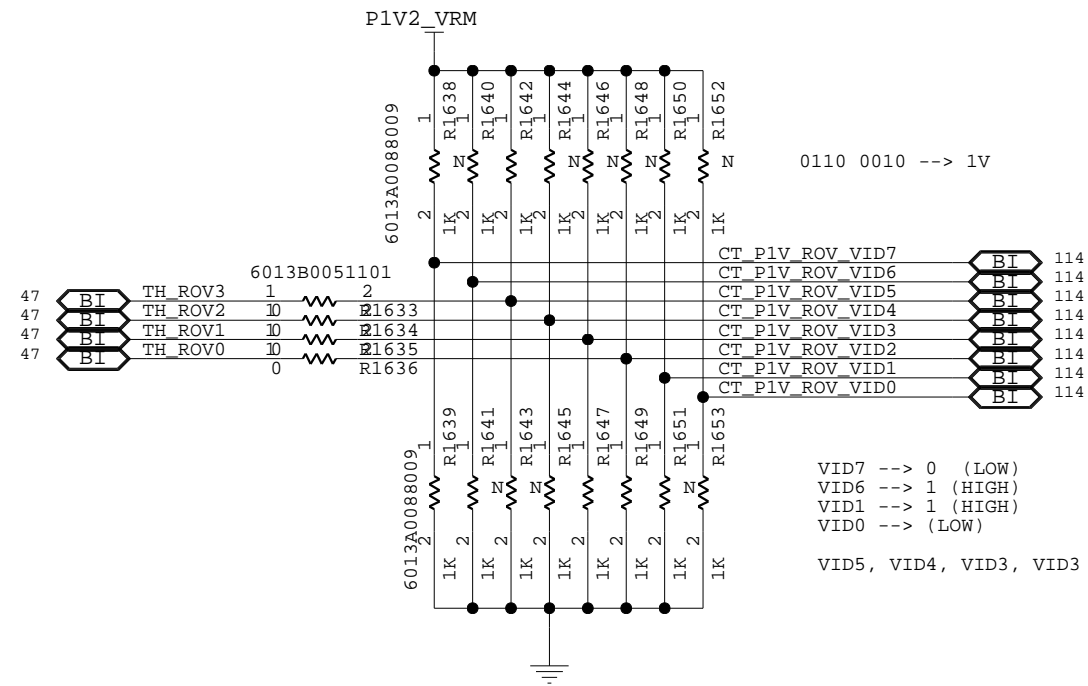
MODULE=PWR_P1V_ROV & P1V_SW_IR3595A+IR3555*7
FUNCTION=P1V_ROV_PHASE3 & 4

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC,			
SHEET 116 OF 124		MODEL, PROJECT, FUNCTION			
Tue Mar 10 09:39:53 2015					
PCB NUMBER		REV	SIZE	DOCUMENT NUMBER	REV
6050A2737101		XXX	B	K-CS-1395A2737101-0-0	X01





IOCP : 1.5 * IOUP



```
VID7 --> 0 (LOW)
VID6 --> 1 (HIGH)
VID1 --> 1 (HIGH)
VID0 --> (LOW)
```

VID5, VID4, VID3, VID3 FOLLOW AS AVS[3:0] CONNECTION

FUNCTION=VID CIRCUIT

INVENTEC CONFIDENTIAL DO NOT COPY

ENG. XXX	DATE 21-OCT-2002	TITLE: SCHEMATIC, MODEL, PROJECT, FUNCTION		
SHEET 119 OF 124				
Tue Mar 10 09:39:53 2015				
PCB NUMBER 6050A2737101	REV XXX	SIZE B	DOCUMENT NUMBER K-CS-1395A2737101-0-0	REV X01

