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	1	2	3	4	5	6	7	8	9	10					
A	1.5V_DSP /sheet13 12 A /sheet11 10 C	AC_TX /sheet15 13 E /sheet10 13 C	/sheet13 4 C	/sheet10 5 B /sheet35 10 C	/sheet12 5 E	/sheet10 3 C /sheet22 11 C	HW_DET_MOB_TYPE3 /sheet10 4 E /sheet10 3 A	/sheet27 5 E	/sheet48 5 E	/sheet59 12 D	/sheet4 12 C /sheet59 11 E	TX /sheet15 9 E /sheet15 11 B	/sheet11 4 A	A	
	1.5V_UC /sheet13 11 A /sheet11 10 C /sheet11 7 A	ADV /sheet10 6 G /sheet12 15 E /sheet12 6 B	BOOST_OUT /sheet13 6 C /sheet13 11 E	CAM_DAT5 /sheet10 5 B /sheet35 10 C	DB_ETMCLK /sheet10 3 E	DISP_RD /sheet10 3 C /sheet22 11 C	HW_DET_MOB_TYPE4 /sheet10 4 E /sheet10 3 B	KP_IN5_OUT6 /sheet10 5 G /sheet27 1 B	MMC_VCC /sheet48 3 B /sheet48 8 A /sheet48 6 A	PM_WADOG /sheet13 2 D /sheet10 6 B	RF_TPA_DIG /sheet10 7 B /sheet4 12 D /sheet59 2 F	TXBAND /sheet59 5 E /sheet59 9 E	VDD_BT /sheet13 1 G /sheet13 8 C /sheet13 2 G /sheet51 4 B /sheet51 2 A		
	1.8V_MEM1 /sheet13 1 F /sheet13 8 B /sheet13 2 F /sheet11 9 D /sheet12 8 E	AKKU_TYP /sheet14 7 C /sheet10 11 B	BREF /sheet10 15 B /sheet10 12 B	CAM_DAT6 /sheet10 5 B /sheet35 10 C	DB_RTCK /sheet10 3 D	DISP_RESET1 /sheet10 3 D /sheet22 11 B	I2C_2_CLK /sheet10 8 B /sheet35 4 C	KP_OUT0 /sheet11 2 C /sheet10 5 G /sheet27 1 C	MMC_VCC_EN /sheet10 6 G /sheet48 3 A	PM_WADOG2 /sheet13 2 D	RTS /sheet15 11 A /sheet15 9 E	USB_D+ /sheet15 11 D /sheet10 13 C	VDD_BT_RF2 /sheet51 5 B /sheet51 1 A		
	1.8V_MEM2 /sheet13 8 B /sheet13 1 G /sheet13 8 C /sheet13 2 G /sheet12 8 E /sheet12 6 C /sheet12 8 F /sheet12 5 B /sheet12 7 B /sheet12 11 C	A_FM_STANDBY /sheet10 14 D /sheet18 9 C	BT_PCM_CLK /sheet10 14 E /sheet51 2 C	CAM_HSYNC /sheet10 5 B /sheet35 10 C	DB_TDI /page1 3 C /sheet10 3 D	DISP_WR /sheet10 3 C /sheet22 11 B	I2C_CLK /sheet13 3 F /sheet10 14 E /sheet18 9 C	KP_OUT2 /sheet10 6 G /sheet27 1 C	MON1 /sheet10 3 D	RAS /sheet10 6 G /sheet12 15 E /sheet12 6 C	SDCLKI /sheet10 7 G /sheet12 7 C	USB_MODE /sheet15 11 D /sheet13 8 B	VDD_CHARGE /sheet13 2 D /sheet13 10 G		
B	2.65V /page1 2 C /sheet15 11 E /sheet13 8 B /sheet13 1 G /sheet13 3 D /sheet13 2 G /sheet11 2 B /sheet11 4 A /sheet11 9 B /sheet11 7 B /sheet11 4 A /sheet11 4 A /sheet11 4 A /sheet10 12 A /sheet10 2 A /sheet10 2 C /sheet10 15 D /sheet51 3 A /sheet51 4 B /sheet51 5 B /sheet22 11 B /sheet18 3 A	B6 /sheet12 5 C	BT_PCM_IN /sheet10 14 E /sheet51 2 C	CAM_PCLK /sheet10 5 B /sheet35 4 B	DB_TDO /sheet10 3 D	DVDD_CAMERA /sheet35 10 E /sheet35 4 B	I2C_DAT /sheet13 3 F /sheet10 14 E /sheet18 9 C	KP_OUT3 /sheet10 6 G /sheet27 1 B	MONO1_OUT /sheet17 7 A /sheet13 8 E /sheet13 2 G /sheet13 1 G	RD /sheet10 7 G /sheet12 15 E /sheet12 6 B	SDCLKO /sheet10 6 G /sheet12 7 C	VAF1 /sheet13 2 E /sheet10 11 A /sheet18 9 A	VDD_RF1 /sheet13 2 G /sheet13 8 C /sheet13 1 G /sheet4 12 C /sheet59 15 D /sheet59 8 B /sheet59 9 B	B	
		BATT+ /sheet14 7 C /sheet14 7 C /sheet13 1 A /sheet13 3 E /sheet13 2 B /sheet13 1 G /sheet13 12 G /sheet13 2 G /sheet10 15 F /sheet21 7 C /sheet48 4 A /sheet35 7 D /sheet59 5 F /sheet59 3 G	BT_PCM_OUT /sheet10 14 E /sheet51 2 C	CAM_VSYNC /sheet10 6 B /sheet35 10 C	DB_TMS /page1 3 C /sheet10 3 D	F32K /sheet10 2 F	I2S2_CLK0_TX /sheet13 8 F /sheet10 14 E	LCD_BCKLT /sheet23 8 C /sheet22 11 B	MONO2_LP_OUT /sheet13 7 E /sheet13 3 E	REF_GND /sheet13 3 A /sheet13 6 G	SENSE_IN1 /sheet13 2 D /sheet13 12 G	VAFR /sheet13 2 E /sheet10 11 A /sheet18 9 B	VDD_RF2 /sheet13 8 C /sheet13 2 G /sheet13 1 G /sheet72 7 C /sheet4 12 D /sheet59 7 B /sheet59 10 B /sheet59 8 B /sheet59 5 F /sheet59 15 D /sheet59 7 F		
		BATT+_F /sheet15 11 E /sheet13 3 B /sheet13 3 A /sheet13 3 B /sheet13 3 C /sheet13 2 G /sheet13 1 G /sheet13 3 C /sheet13 3 C /sheet13 2 A /sheet27 2 C	BT_RX /sheet10 14 D /sheet51 2 C	CIF_PD /sheet10 6 B /sheet35 6 E	DB_TRACEPKT6 /sheet10 4 E	FLASH_RESET /sheet13 7 C /sheet10 4 F /sheet12 7 C	I2S2_TX /sheet13 8 F /sheet10 14 E	MIC1A /sheet10 10 A /sheet19 7 B	MONO2_OUT /sheet17 7 B /sheet13 8 E /sheet13 2 G /sheet13 1 G	RF_AFC /sheet10 2 F /sheet4 12 C /sheet59 15 C	SERIAL_EN /sheet15 11 E /sheet10 8 B	SIM_CLK /sheet16 10 C /sheet10 13 C	VBOOST /sheet13 1 G /sheet13 2 G /sheet13 12 C /sheet13 12 D /sheet27 2 C /sheet22 11 B		VDD_RTC /sheet13 2 C /sheet13 1 G /sheet13 2 G /sheet13 12 C /sheet13 12 D /sheet27 2 C /sheet22 11 B
		BATT_DCDC /sheet13 10 D /sheet13 2 B	BT_TX /sheet10 13 F /sheet51 1 C	CLK32 /sheet10 6 B /sheet51 2 D /sheet18 2 B	DISP_CD /sheet10 3 C /sheet22 11 B	GND_MIC /sheet15 11 B /sheet11 7 E /sheet10 10 A /sheet19 7 D /sheet19 8 D /sheet19 6 C	KB_ON_OFF /sheet13 2 C /sheet27 1 B	KPD_BCKLT /sheet27 1 B /sheet28 8 B	MMCI_CMD /sheet10 12 B /sheet48 3 C	PM_POWER_ON /sheet13 3 C /sheet13 7 C	RF_IX /sheet10 9 B /sheet4 12 B /sheet59 11 D	STEPDOWN_GND /sheet13 11 A /sheet13 6 F /sheet13 11 A /sheet13 8 H /sheet13 3 B	VBUCK_FB /sheet13 10 A /sheet13 2 C		VDD_USB /sheet13 8 B /sheet13 1 H /sheet13 2 H /sheet11 7 A
C	2.9V /sheet13 8 B /sheet13 1 G /sheet13 2 G /sheet11 7 A /sheet11 7 A /sheet23 5 B /sheet51 5 B /sheet28 6 A /sheet22 11 B /sheet59 10 B	BB_SIN26M /sheet10 2 F /sheet4 12 C /sheet59 12 D	BT_VC XOEN /sheet13 2 D /sheet51 2 D	CS0_FLASH /sheet10 7 G /sheet12 15 F /sheet12 6 B	DISP_CS1 /sheet10 3 C /sheet22 11 B	/sheet15 11 B /sheet11 7 E /sheet10 10 A /sheet19 7 D /sheet19 8 D /sheet19 6 C	KB_ON_OFF /sheet13 2 C /sheet27 1 B	KPD_BCKLT /sheet27 1 B /sheet28 8 B	MMCI_CLK /sheet10 13 B /sheet48 3 C	PM_RESET_N /sheet13 7 C /sheet10 3 F	RF_Q /sheet10 9 B /sheet4 12 B /sheet59 11 D	STEREO1_OUT /sheet15 11 B /sheet13 7 E	VBUCK_LX /sheet13 10 A /sheet13 6 B /sheet13 2 G /sheet13 1 G	C	
		BC0 /sheet10 7 G /sheet12 15 E /sheet12 6 D	BT_WAKEUP_GSM /sheet10 5 G /sheet51 2 B	CS1_SDRAM /sheet10 8 G /sheet12 15 F /sheet12 6 C	DISP_D0 /sheet10 3 C /sheet22 11 B	HF_OUT /sheet72 2 B /sheet59 2 B	KPD_BCKLT_PWM /sheet13 7 D /sheet28 4 C	MMCI_CMD /sheet10 12 B /sheet48 3 C	PM_RF2_EN /sheet13 2 C /sheet10 7 B	RF_Q /sheet10 9 B /sheet4 12 B /sheet59 11 D	STEREO2_OUT /sheet15 11 B /sheet13 7 E	VCC_LIGHT /sheet27 2 C	VDD_VIBRA /sheet13 8 B /sheet13 2 H /sheet13 1 H /sheet21 4 C		
		BC1 /sheet10 7 G /sheet12 15 F /sheet12 6 D /sheet12 3 D	CAM_CLKOUT /sheet10 6 A /sheet35 4 C	CS2_FLASH /sheet10 8 G /sheet12 15 F /sheet12 6 B	DISP_D2 /sheet10 3 C /sheet22 11 C	HF_OUT1 /sheet72 3 B	KP_IN0 /sheet13 7 C /sheet10 5 G /sheet27 1 C	MMCI_DAT0 /sheet10 12 B /sheet48 3 C	PM_RINGIN /sheet13 3 E /sheet10 8 B	RF_QX /sheet10 9 B /sheet4 12 B /sheet59 11 D	STEREO2_OUT /sheet15 11 B /sheet13 7 E	VCC_LIGHT /sheet27 2 C	VREFEXS_GND /sheet13 1 H /sheet21 4 C		
		BFCLKI /sheet10 7 G /sheet12 7 B	CAM_DAT0 /sheet10 4 B /sheet35 10 B	CS3_MEMORY /sheet10 8 G /sheet12 6 B	DISP_D3 /sheet10 3 C /sheet22 11 C	HW_DET_BAND_SEL /sheet10 2 B /sheet10 3 E	KP_IN1 /sheet10 5 G /sheet27 1 C	MMCI_DAT1 /sheet10 12 B /sheet48 3 C	PM_RTC_INT /sheet13 2 C /sheet10 4 F	RF_RAMP1 /sheet10 9 A /sheet4 12 C /sheet59 7 E	TRIG_IN /sheet10 3 D	VCMICP /sheet13 2 C /sheet10 4 F			
D	AC_CTS /sheet15 13 E /sheet10 14 C	BFCLKO /sheet10 7 G /sheet12 7 B	CAM_DAT1 /sheet10 5 B /sheet35 10 B	CTS /sheet15 11 A /sheet15 9 E	DISP_D4 /sheet10 3 C /sheet22 11 C	HW_DET_BLUETOOTH /sheet10 2 A /sheet10 3 E	KP_IN2 /sheet10 5 G /sheet27 1 C	MMCI_DAT2 /sheet10 12 B	PM_SIN26M /sheet13 3 E /sheet4 12 C	RF_STR /sheet10 8 B	TVCXO /sheet10 15 A /sheet10 11 B /sheet4 12 B /sheet59 15 C	VDD_AFC /sheet13 1 G /sheet13 2 G /sheet13 8 C	VREFEXS_GND /sheet13 2 E /sheet13 4 F	D	
	AC_DCD /sheet15 13 E /sheet10 6 B	BOOST_FB /sheet13 4 C /sheet13 12 E	CAM_DAT2 /sheet10 5 B /sheet35 10 B	D(0:15) /sheet10 10 G /sheet12 15 B /sheet12 3 D	DISP_D5 /sheet10 3 C /sheet22 11 C	HW_DET_MOB_TYPE1 /sheet10 2 A /sheet10 3 E	KP_IN3 /sheet10 5 G /sheet27 1 C /sheet27 5 D	MMCI_DAT3 /sheet10 12 B							
	AC_RTS /sheet15 13 E /sheet10 14 C	BOOST_IFB_N /sheet13 11 E /sheet13 4 G	CAM_DAT3 /sheet10 5 B /sheet35 10 C	D(3) /page1 3 C	DISP_D6 /sheet10 3 C /sheet22 11 C	HW_DET_MOB_TYPE2 /sheet10 4 E /sheet10 3 A	KP_IN4 /sheet10 5 G /sheet27 1 C	MMCI_DAT4 /sheet10 12 B							
	AC_RX /sheet15 13 E /sheet10 14 C	BOOST_IFB_P /sheet13 11 E	CAM_DAT4	D4,D6,J4,J6	DISP_D7										
E	1	2	3	4	5									E	
	1.5V_DSP /sheet13 12 A /sheet11 10 C	AC_TX /sheet15 13 E /sheet10 13 C	/sheet13 4 C	/sheet10 5 B /sheet35 10 C	/sheet12 5 E	/sheet10 3 C /sheet22 11 C	HW_DET_MOB_TYPE3 /sheet10 4 E /sheet10 3 A	/sheet27 5 E	/sheet48 5 E	/sheet59 12 D	/sheet4 12 C /sheet59 11 E	TX /sheet15 9 E /sheet15 11 B	/sheet11 4 A		
	1.5V_UC /sheet13 11 A /sheet11 10 C /sheet11 7 A	ADV /sheet10 6 G /sheet12 15 E /sheet12 6 B	BOOST_OUT /sheet13 6 C /sheet13 11 E	CAM_DAT5 /sheet10 5 B /sheet35 10 C	DB_ETMCLK /sheet10 3 E	DISP_RD /sheet10 3 C /sheet22 11 C	HW_DET_MOB_TYPE4 /sheet10 4 E /sheet10 3 B	KP_IN5_OUT6 /sheet10 5 G /sheet27 1 B	MMC_VCC /sheet48 3 B /sheet48 8 A /sheet48 6 A	PM_WADOG /sheet13 2 D /sheet10 6 B	RF_TPA_DIG /sheet10 7 B /sheet4 12 D /sheet59 2 F	TXBAND /sheet59 5 E /sheet59 9 E	VDD_BT /sheet13 1 G /sheet13 8 C /sheet13 2 G /sheet51 4 B /sheet51 2 A		
	1.8V_MEM1 /sheet13 1 F /sheet13 8 B /sheet13 2 F /sheet11 9 D /sheet12 8 E	AKKU_TYP /sheet14 7 C /sheet10 11 B	BREF /sheet10 15 B /sheet10 12 B	CAM_DAT6 /sheet10 5 B /sheet35 10 C	DB_RTCK /sheet10 3 D	DISP_RESET1 /sheet10 3 D /sheet22 11 B	I2C_2_CLK /sheet10 8 B /sheet35 4 C	KP_OUT0 /sheet11 2 C /sheet10 5 G /sheet27 1 C	MMC_VCC_EN /sheet10 6 G /sheet48 3 A	PM_WADOG2 /sheet13 2 D	RTS /sheet15 11 A /sheet15 9 E	USB_D+ /sheet15 11 D /sheet10 13 C	VDD_BT_RF2 /sheet51 5 B /sheet51 1 A		

DATE	07.07.2006
USER	Bartenschlag
APPR'D	
PH RD IND LPM	
BENQ mobile	286763
1	40140
VERS.	CHANGE NUMBER
DATE	07.07.2006
NAME	bar

Obsidian B2 Board		1:1
-Q3340-E2 V1, 900, w FM		
TOP HIERARCHY LEVEL		netlist1
SCHEMATIC		

(Created by BOM number: A5B00920100641-40140)									
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				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	netlist1
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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WAIT

/sheet10 6 G

/sheet12 7 B

WR

/sheet10 7 G

/sheet12 15 E

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/sheet12 6 C

				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile		286763	netlist2
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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	C1001 /sheet10 2 F	C1322 /sheet13 3 D	C1823 /sheet18 5 D	C5934 /sheet59 7 B	R1025 /sheet10 15 D	R2310 /sheet23 5 B	TP5933 /sheet59 5 E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	C1002 /sheet10 1 F	C1325 /sheet13 3 E	C1824 /sheet18 4 C	C5935 /sheet59 8 B	R1037 /sheet10 6 A	R2311 /sheet23 7 C	TP5932 /sheet59 6 G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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	C1004 /sheet10 8 A	C1327 /sheet13 7 A	C1826 /sheet18 6 D	C5937 /sheet59 3 D	R1039 /sheet10 12 A	R2417 /sheet24 3 B	V1305-2 /sheet13 10 G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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	C1037 /sheet10 5 A	C1333 /sheet13 6 E	C2102 /sheet21 6 C	C5945 /sheet59 8 B	R1049 /sheet10 3 B	R2710 /sheet27 2 C	V2300-1 /sheet23 7 C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	C1038 /sheet10 6 A	C1334 /sheet13 6 E	C2201 /sheet22 8 D	C5946 /sheet59 9 B	R1050 /sheet10 2 A	R2711 /sheet27 4 D	V2300-2 /sheet23 5 C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile			
1	40140	07.07.2006	bar	286763			sheet1
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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HIT_POINTS LOGIK/HF_PART_1

HIT_POINTS LOGIK/HF
400-449

TRANCEIVER ENABLE SIGNAL
TRANCEIVER CLOCK SIGNAL
TRANCEIVER DATA SIGNAL

Bidirectional analoue RX/TX modulartet signal
Baseband signals

Reference frequency correction

DCSTX enable Asic for Hitachisolution
GSMTX enable Asic for Hitachisolution

analogue power amplifier ramping signal

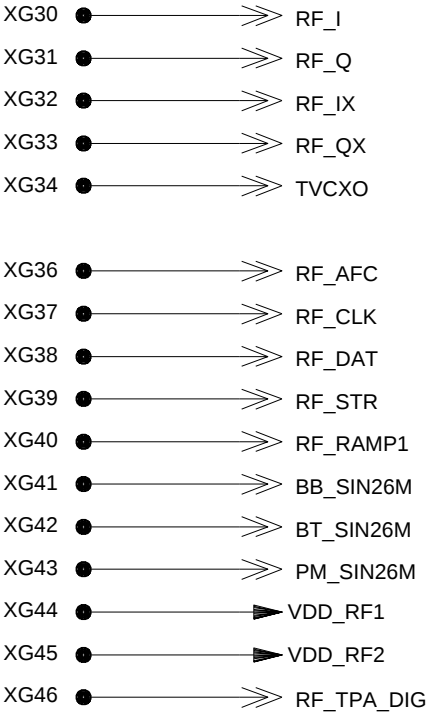
26 MHz reference frequency
26 MHz reference frequency for Bluetooth
26 MHz reference frequency for Powermanagement

Temperature sensor X-tal
DETECTION internal/external Antenna

programmed voltage 1

programmed voltage 2

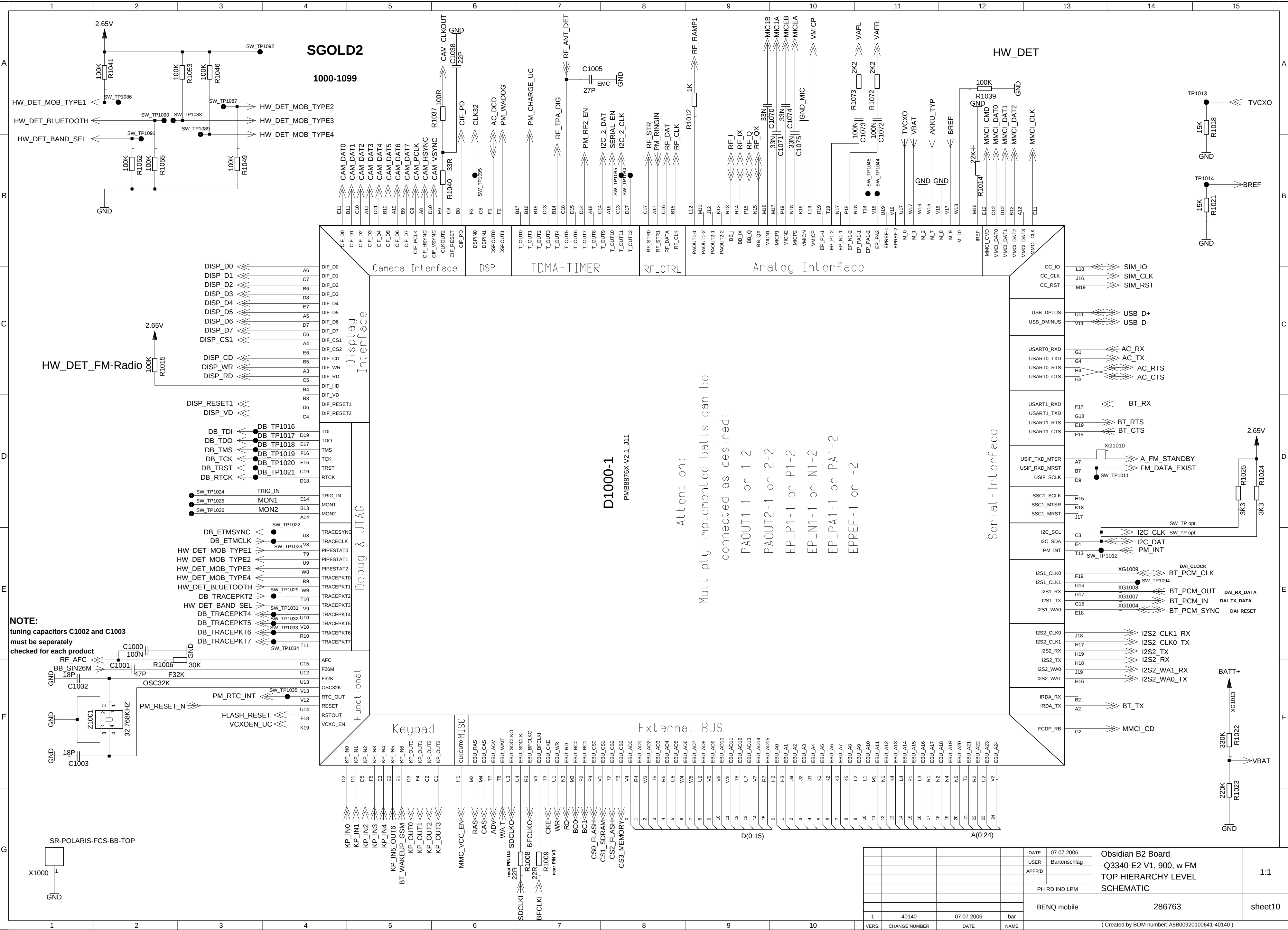
switched LOW- / HIGH-band



HIT_POINTS LOGIK/BLUETOOTH

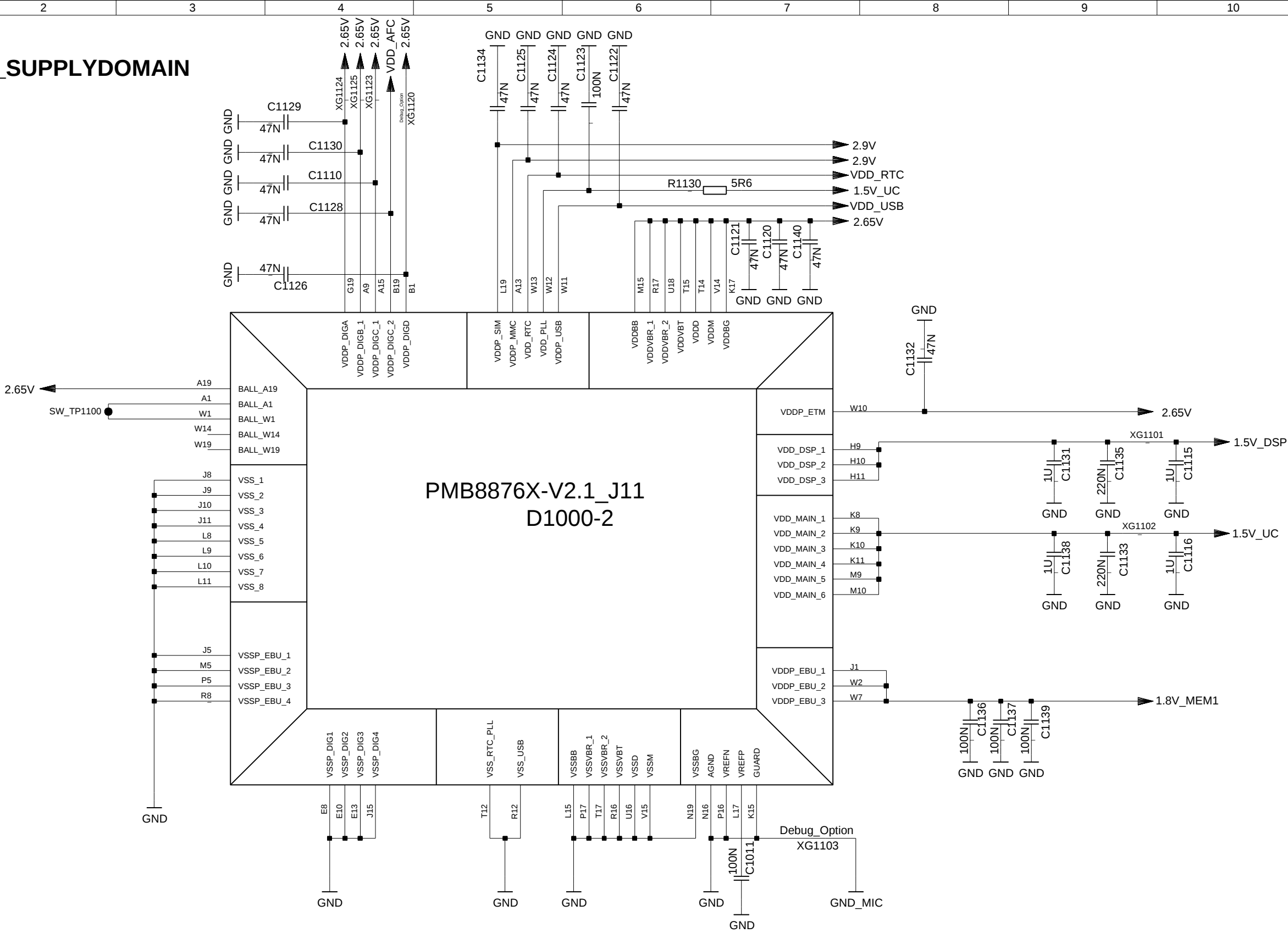
USART1_TXD
USART1_RXD
USART1_CTS
USART1_RTS

				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
					PH RD IND LPM	BENQ mobile	286763
1	40140	07.07.2006	bar				sheet4
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			



SGOLD2_SUPPLYDOMAIN

1100-1199



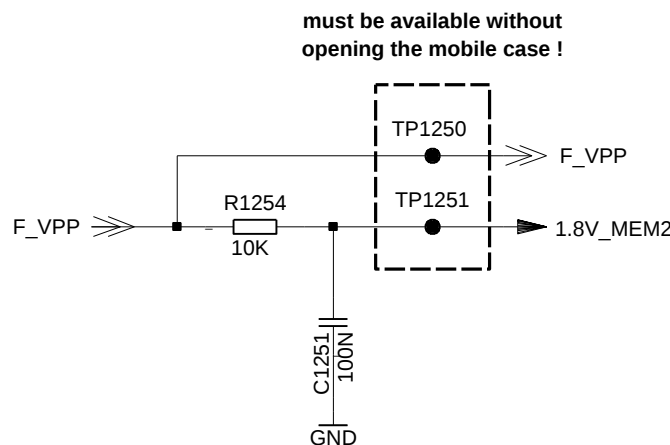
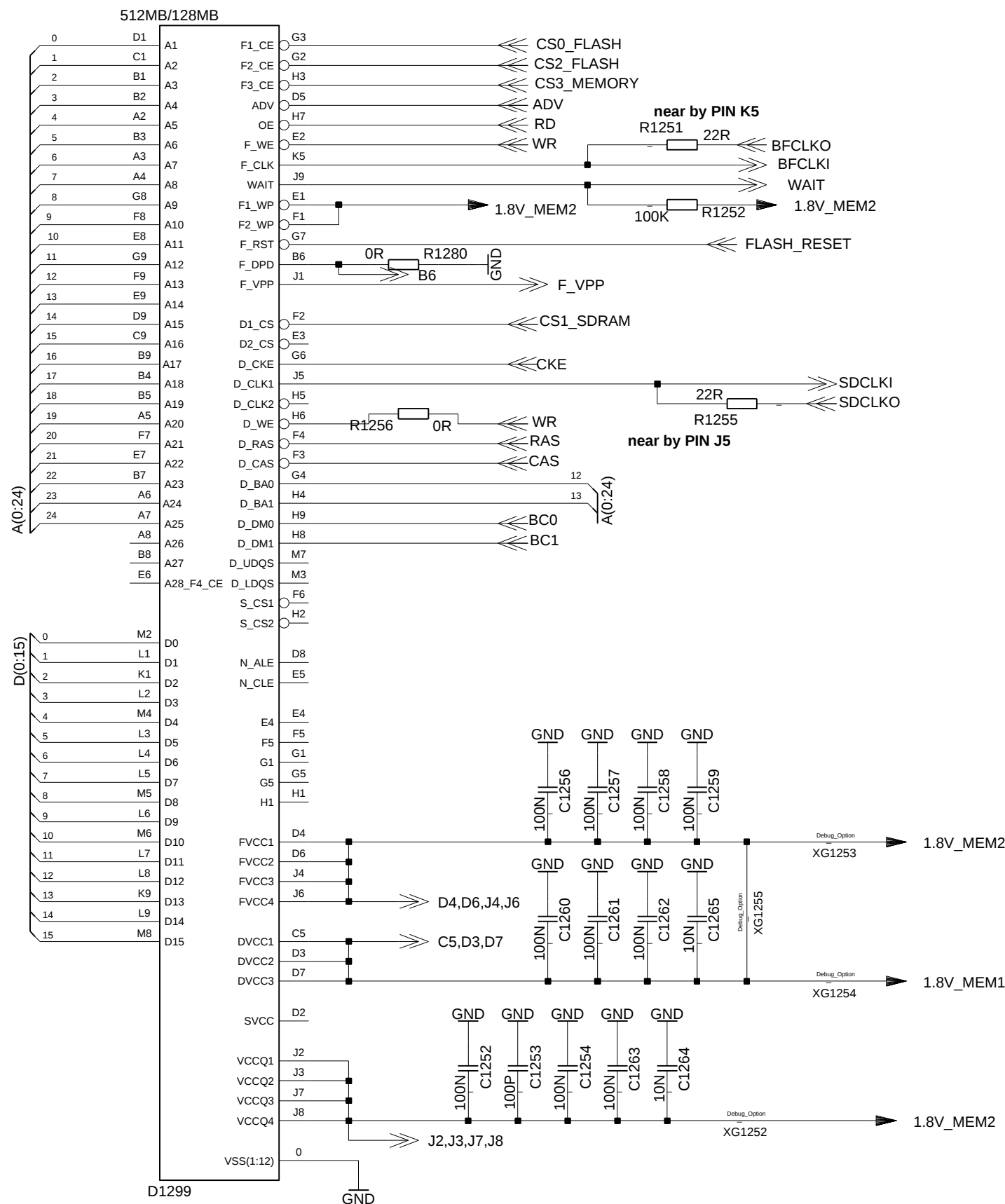
				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	sheet11
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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FLASH_SDRAM

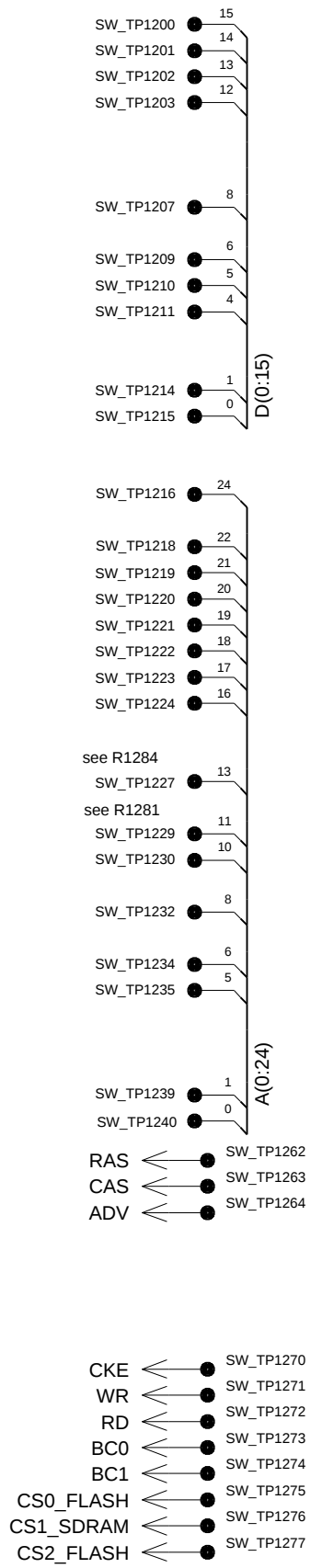
1200-1299



Layout Information:

- 1) place a capacitor (decoupling) to every power ball (VCC, VCCQ) as close as possible. There should be one capacitor for each ball.
- 2) connect the power plane as short as possible via the decoupling capacitor to the power ball.
- 3) connect ground as close as possible to the decoupling capacitor.
- 4) Please avoid branches by routing signals to more than one target (ball), this means for every signal expecting the power connectivity's. This is very important for the clock signals.
- 5) The BFCLKO & BFCLKI signal is a loop line from SGOLD2 to the Memory and back to SGOLD2. So avoid branches here as well. The same applies to SDCLKI & SDCLKO.

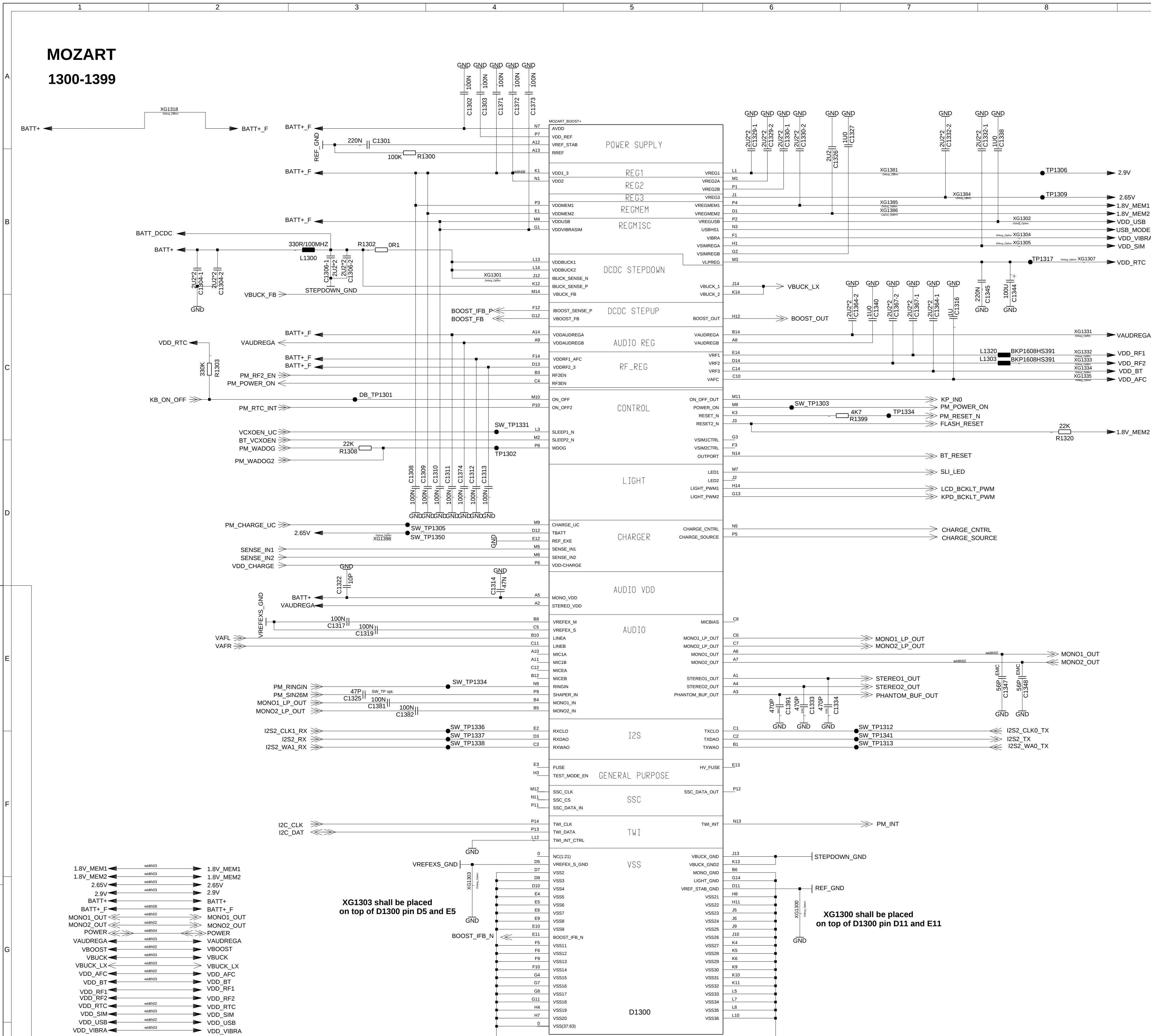
SW-TESTPUNKTE



				DATE	07.07.2006	Obsidian B2 Board	
				USER	Bartenschlag	-Q3340-E2 V1, 900, w FM	
				APPR'D		TOP HIERARCHY LEVEL	1:1
						SCHEMATIC	
					PH RD IND LPM		
					BENQ mobile	286763	sheet12
1	40140	07.07.2006	bar				

(Created by BOM number: A5B00920100641-40140)

MOZART
1300-1399

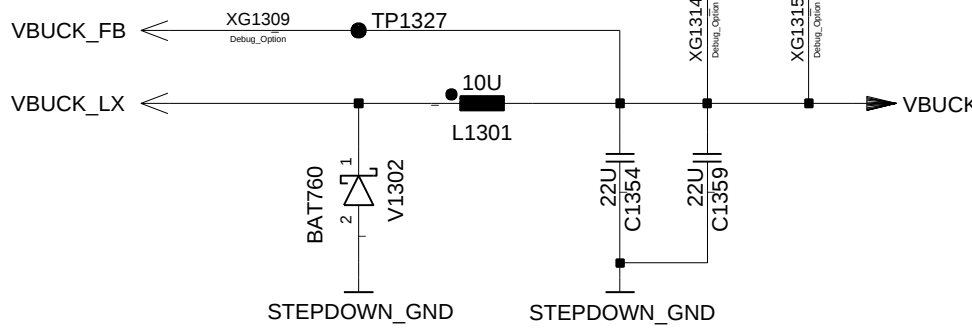


XG1303 shall be placed
on top of D1300 pin D5 and E5

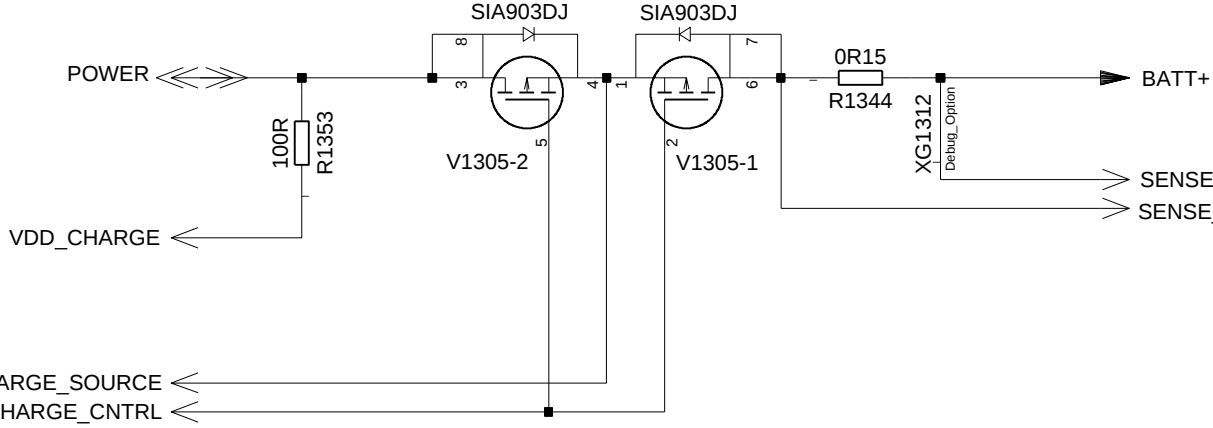
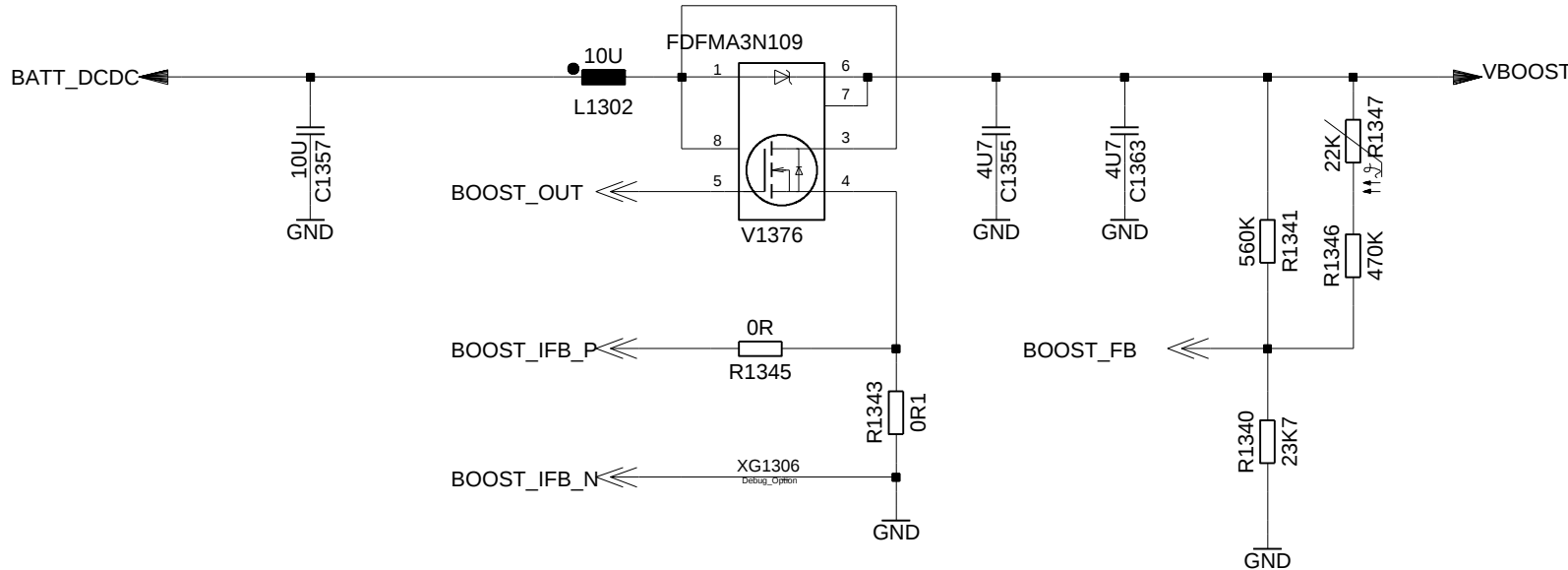
XG1300 shall be placed
on top of D1300 pin D11 and E11

pin J13 and K13 has to be connected
directly with H11 and K11 without any via

short as possible at the ASIC



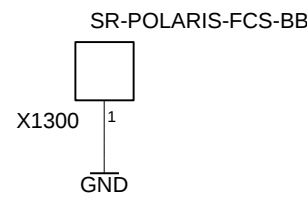
non switchable VBOOST



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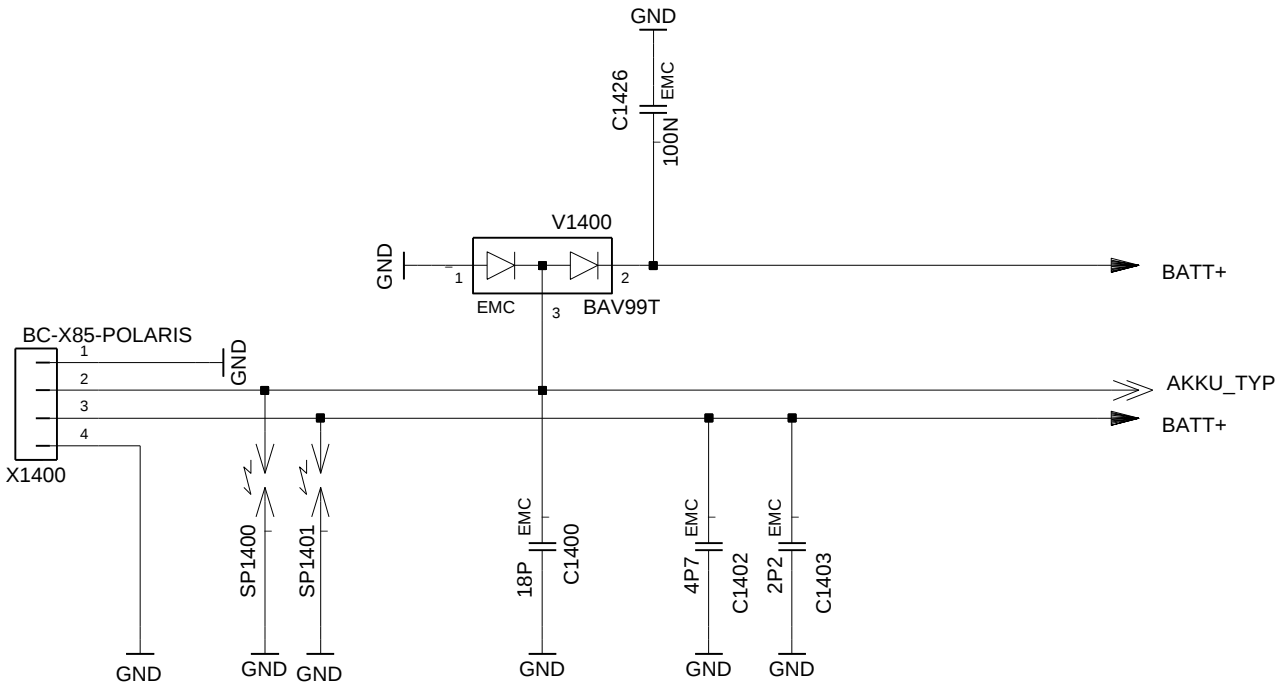
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				USER	Bartenschlag	-Q3340-E2 V1, 900, w FM	
				APPWD		TOP HIERARCHY LEVEL	
						PH RD IND LPM	
						SCHEMATIC	
						286763	
				BENQ mobile			sheet13
1	40140	07.07.2006	bar				
VER.	CHANGE NUMBER	DATE	NAME			(Created by BOM number: A5809020100641-40140)	

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BATTERY_CONNECTOR

1400-1449



				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile		286763	sheet14
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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IO_CONNECTOR

1500-1599

Nano_IO_LUMBERG

X1504

GND

GND

GND

FM_IN

GND

GND

GND

GND

GND

GND

5K6

R1508

R1524

2K2

R1525

2K2

RTS

CTS

TX

RX

DCD

POWER

GND_MIC

MICEA

STEREO2_OUT

PHANTOM_BUF_OUT

STEREO1_OUT

MICEB

MICBIAS_F

RTS

CTS

TX

RX

DCD

EMIF05MUX02-LF

A1

A3

A5

A7

A9

IN_1

IN_2

IN_3A

IN_3B

IN_3C

B2

B4

B6

B8

GND_1

GND_2

GND_3

GND_4

OUT_1

OUT_2

OUT_3A

OUT_3B

OUT_3C

VCC

EN

VBAT

2.65V

SERIAL_EN

VBATT+_F

C11

B10

A11

C1

C3

C5

C7

C9

SW_TP1504

SW_TP1503

SW_TP1501

Z1501

EMC

GND

AC_RTS

AC_CTS

AC_TX

AC_RX

AC_DCD

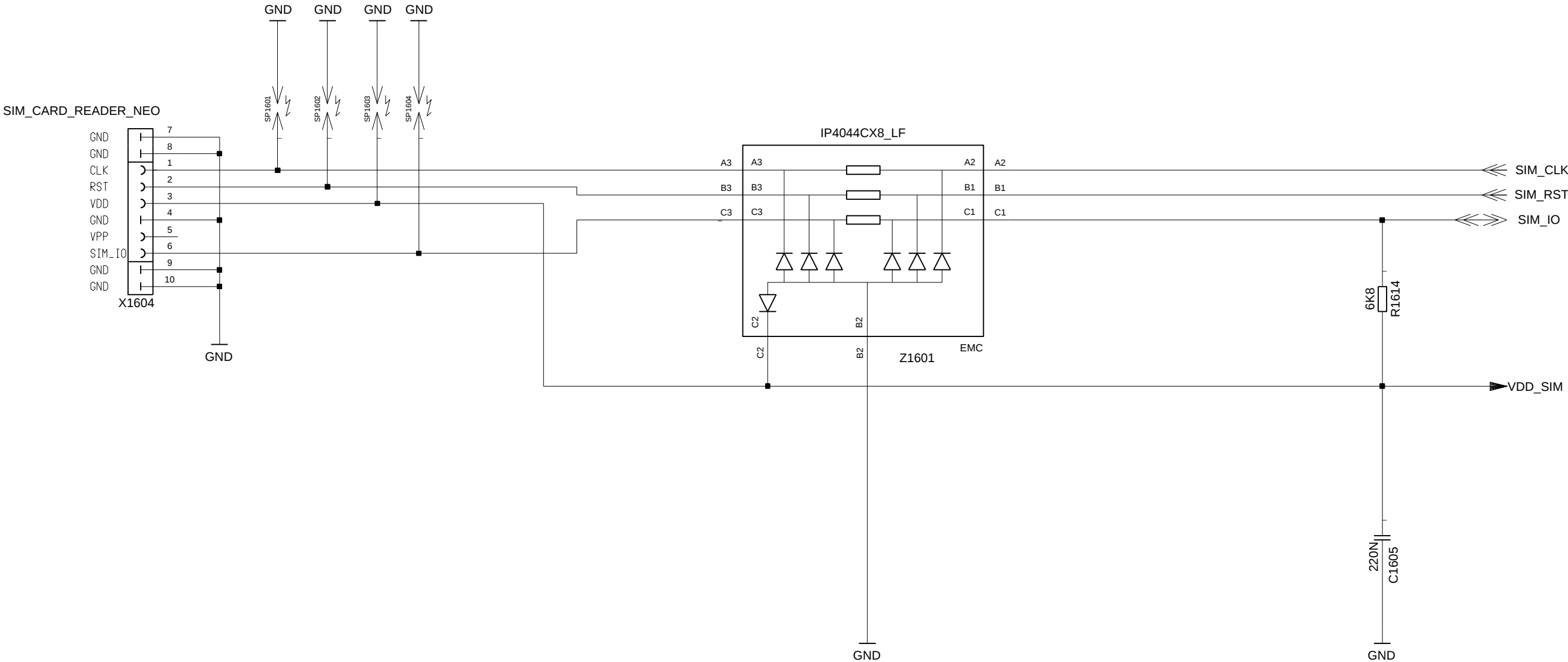
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				APPR'D			
				PH RD IND LPM			
				BENQ mobile			
				286763		sheet15	
1	40140	07.07.2006	bar	(Created by BOM number: A5B00920100641-40140)			
VERS.	CHANGE NUMBER	DATE	NAME				

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SIM_CONNECTOR

1600-1659



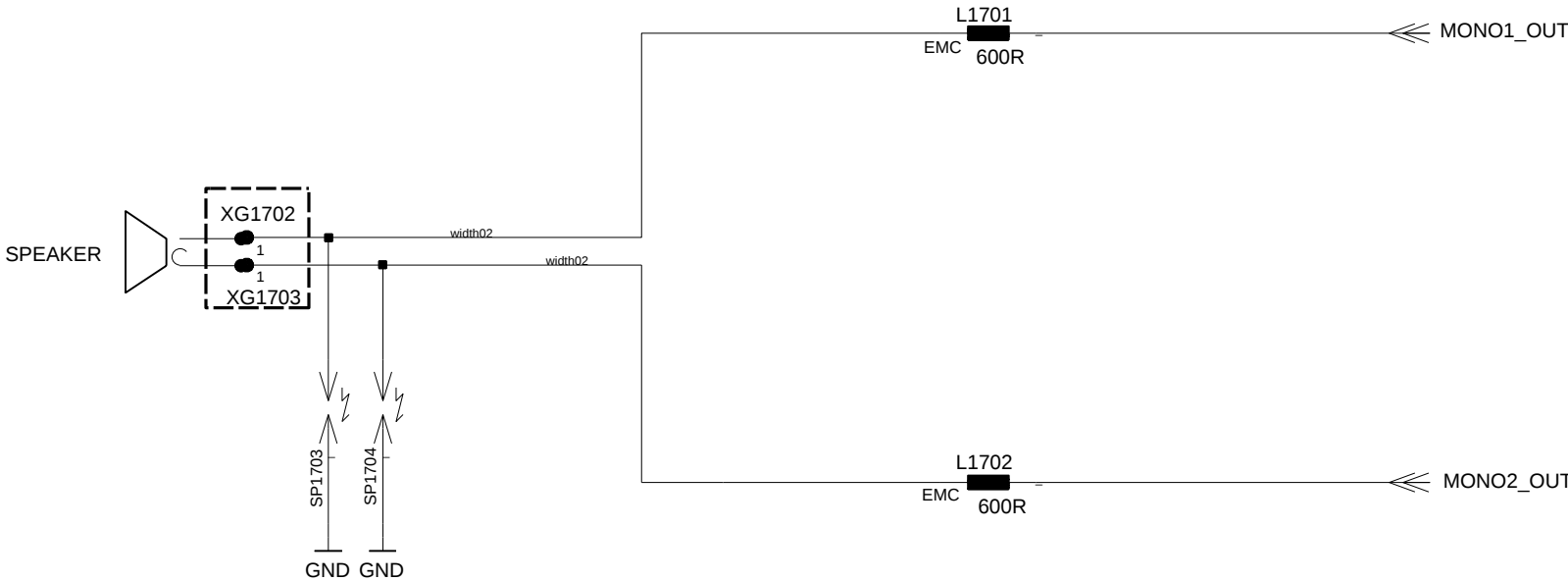
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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile		286763	sheet16
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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SPEAKER

1700-1759



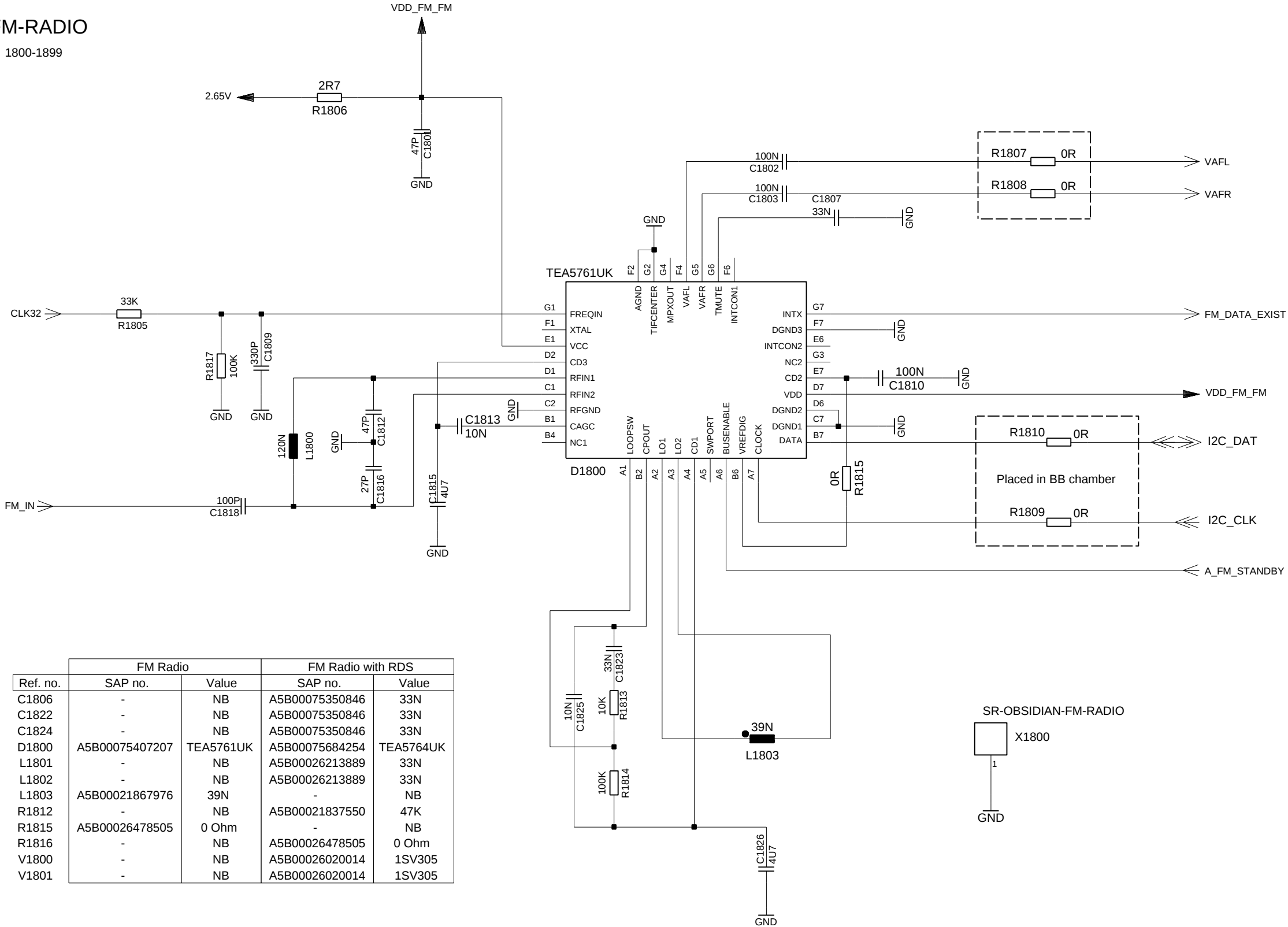
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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	sheet17
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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FM-RADIO

1800-1899



FM Radio			FM Radio with RDS	
Ref. no.	SAP no.	Value	SAP no.	Value
C1806	-	NB	A5B00075350846	33N
C1822	-	NB	A5B00075350846	33N
C1824	-	NB	A5B00075350846	33N
D1800	A5B00075407207	TEA5761UK	A5B00075684254	TEA5764UK
L1801	-	NB	A5B00026213889	33N
L1802	-	NB	A5B00026213889	33N
L1803	A5B00021867976	39N	-	NB
R1812	-	NB	A5B00021837550	47K
R1815	A5B00026478505	0 Ohm	-	NB
R1816	-	NB	A5B00026478505	0 Ohm
V1800	-	NB	A5B00026020014	1SV305
V1801	-	NB	A5B00026020014	1SV305

SR-OBSIDIAN-FM-RADIO

X1800

1

GND

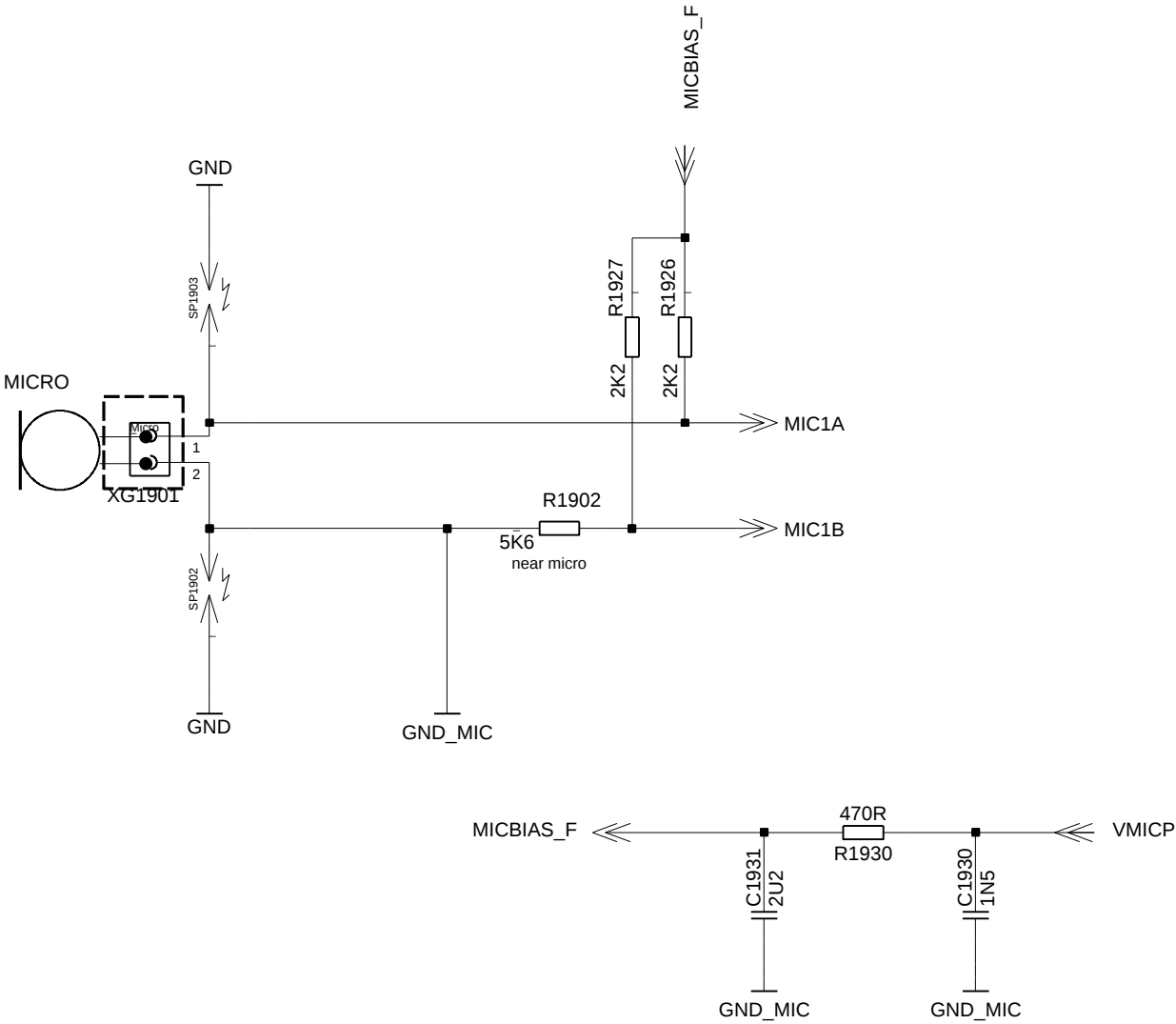
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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile		286763	sheet18
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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MICROPHONE_CIRCUIT_1

1900-1999

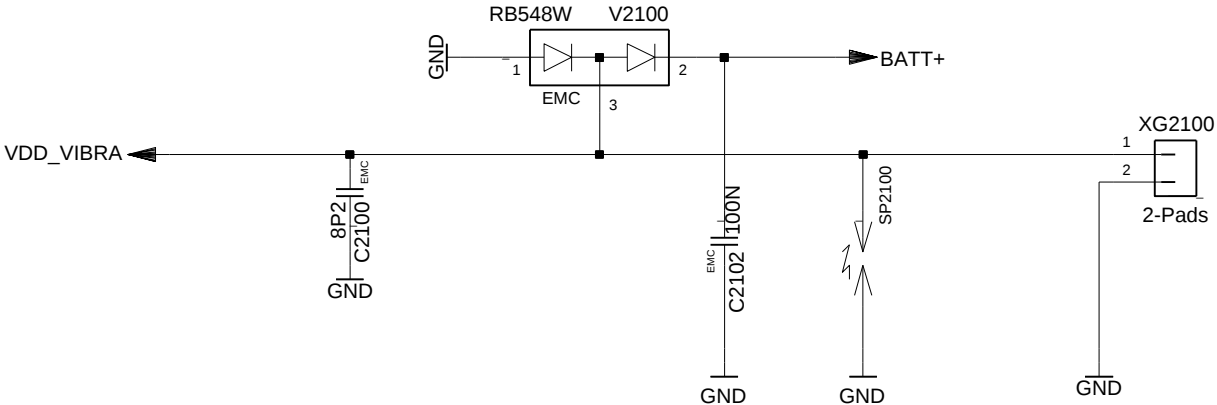


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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile		286763	sheet19
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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VIBRA
2100-2125



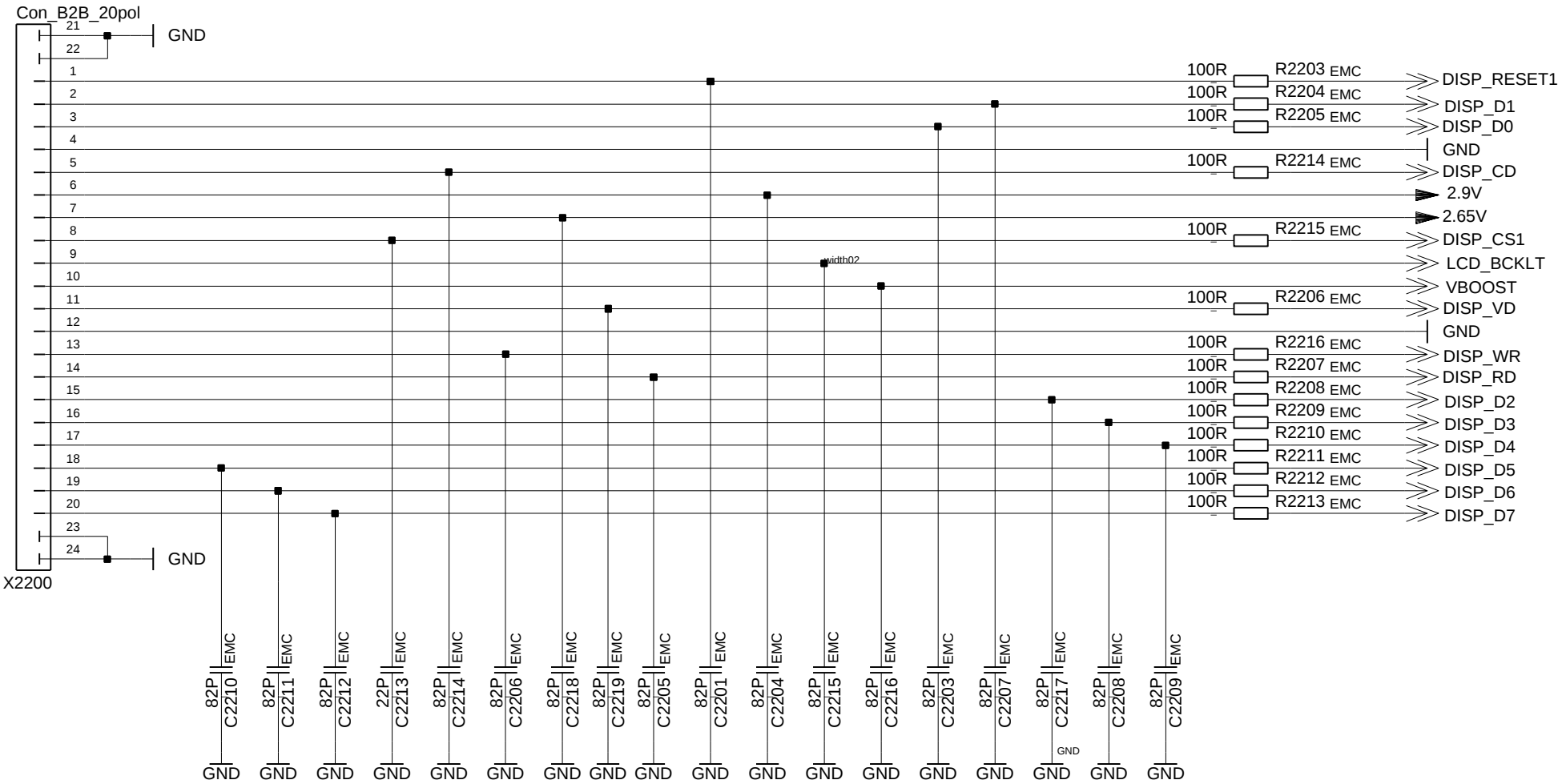
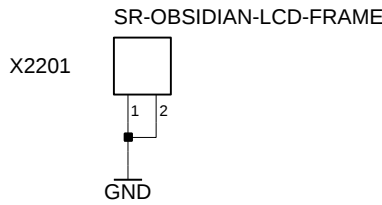
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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile		286763	sheet21
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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DISPLAY_CONNECTOR

2200-2299



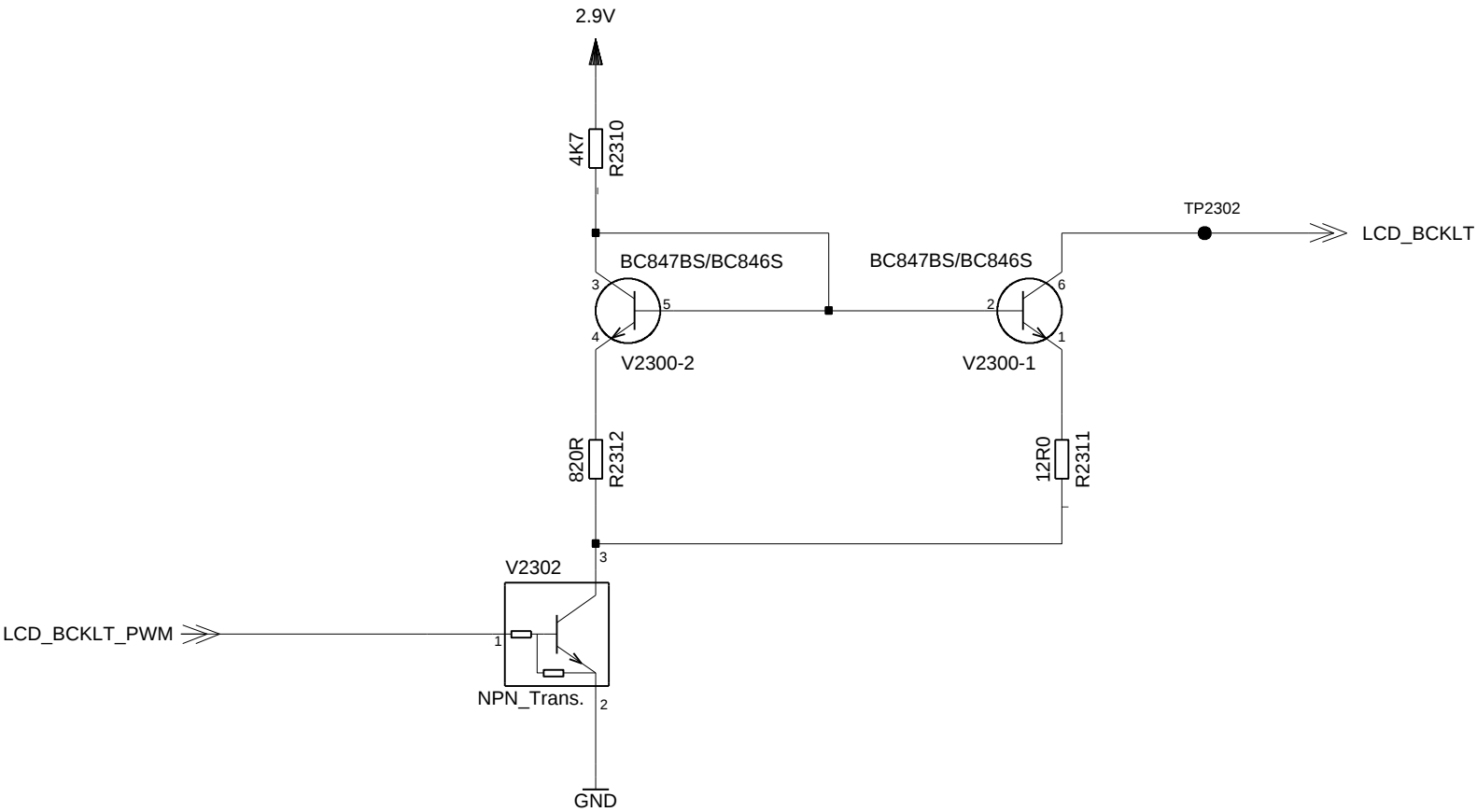
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				USER	Bartenschlag		
				APPR'D			
					PH RD IND LPM	286763	sheet22
					BENQ mobile		
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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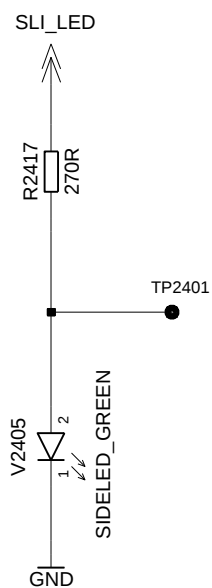
DISPLAY BACKLIGHT CONTROL

2300-2399



				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	sheet23
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
				BENQ mobile		286763	sheet24
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

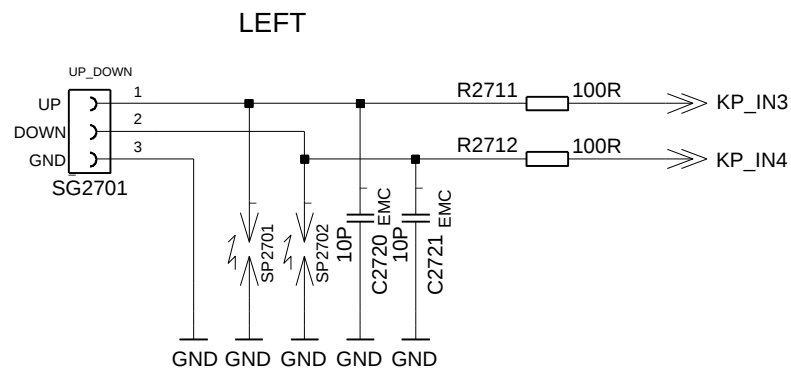
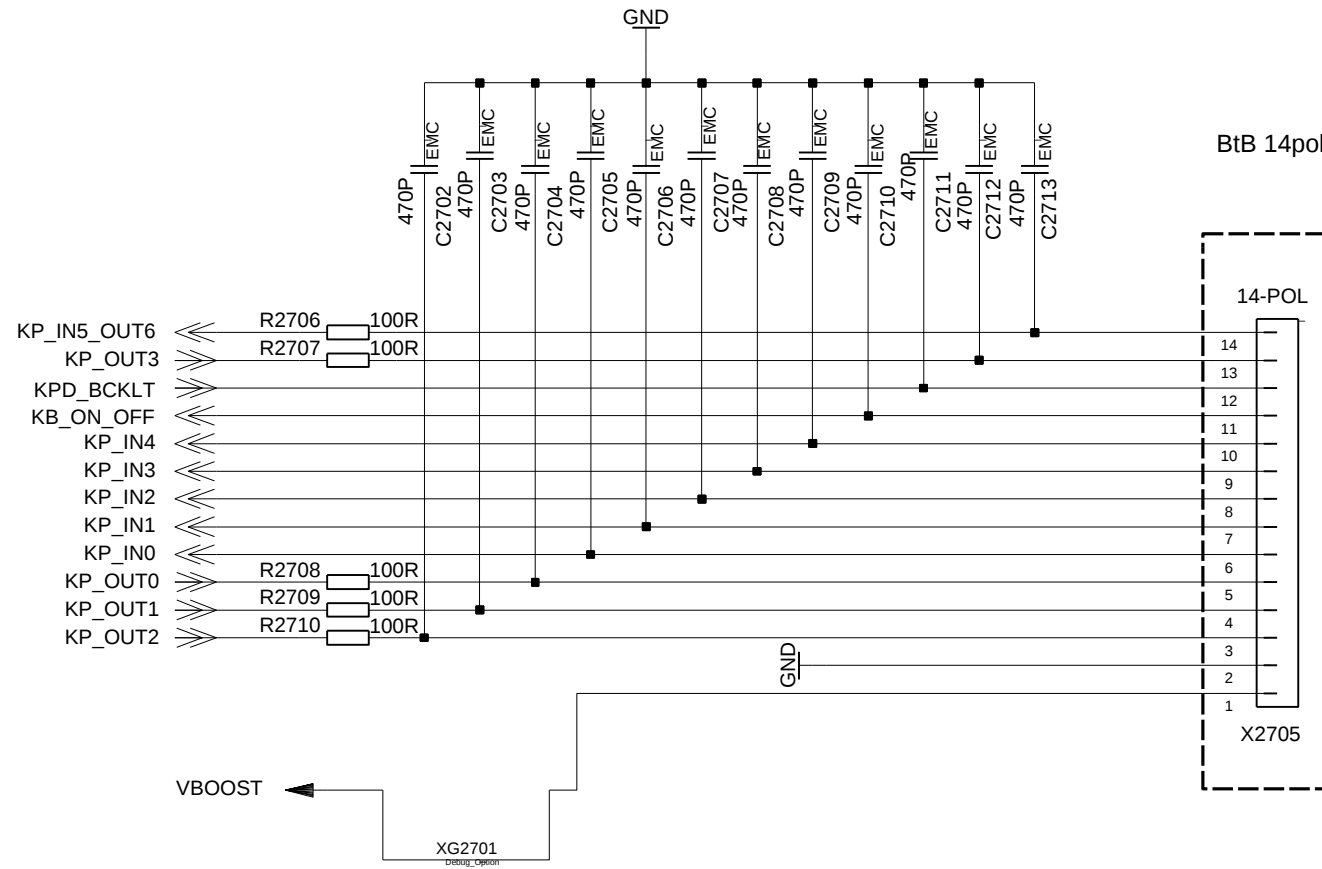
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MMI_CONNECTOR

BOARD TO BOARD CONNECTOR

2700-2749



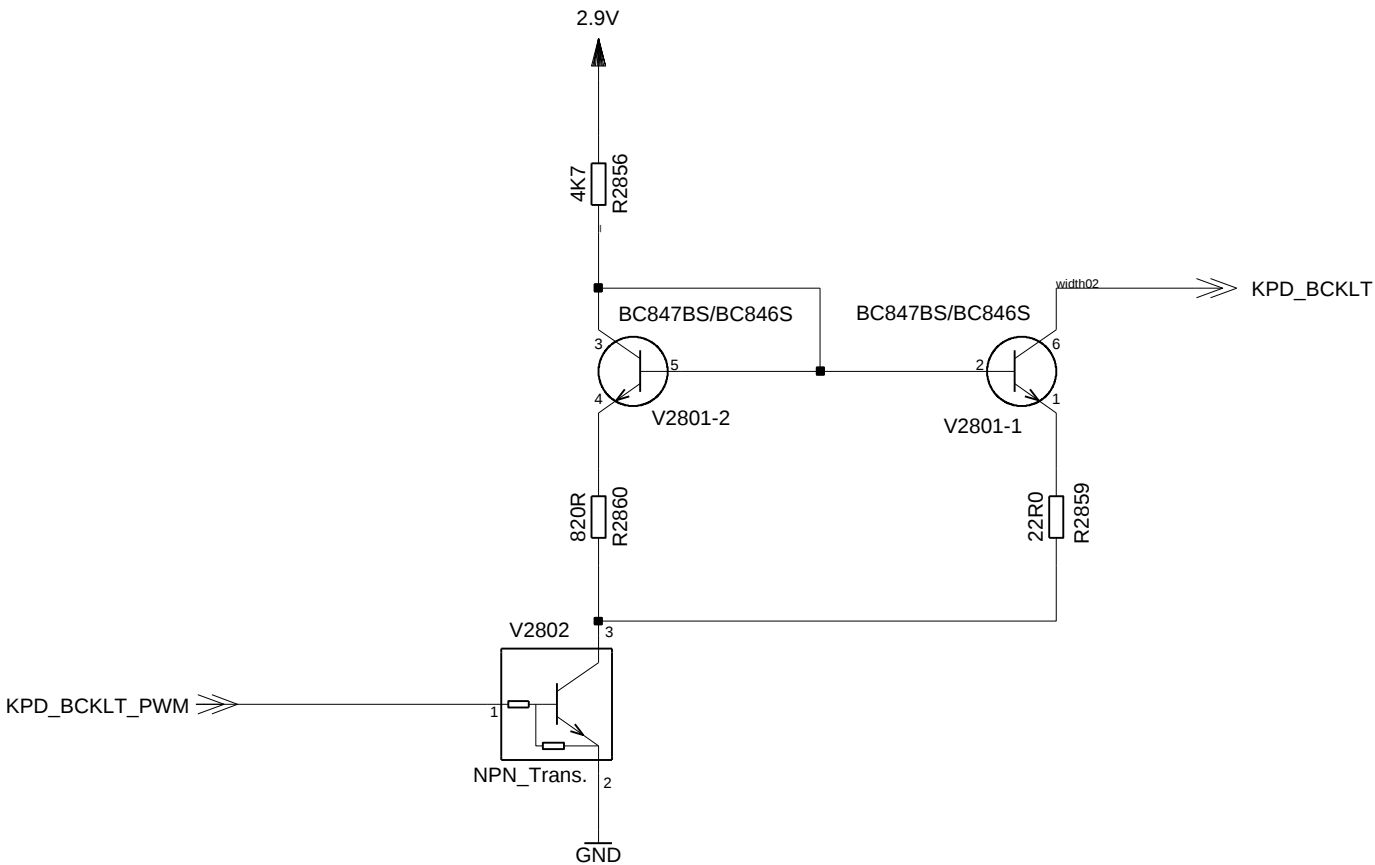
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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	sheet27
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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KEYPAD_BACKLIGHT

2800-2899



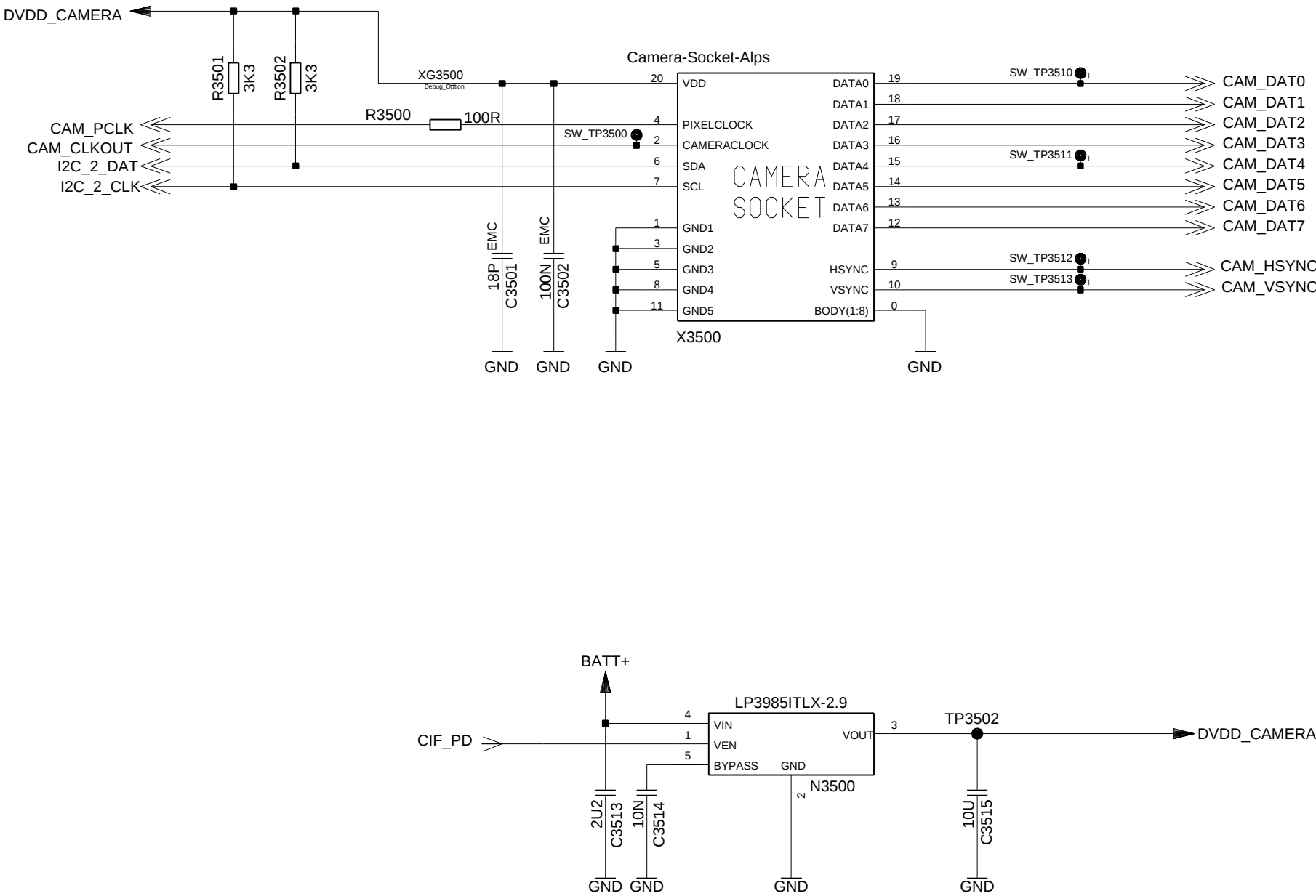
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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	sheet28
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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Camera Interface

3500-3579



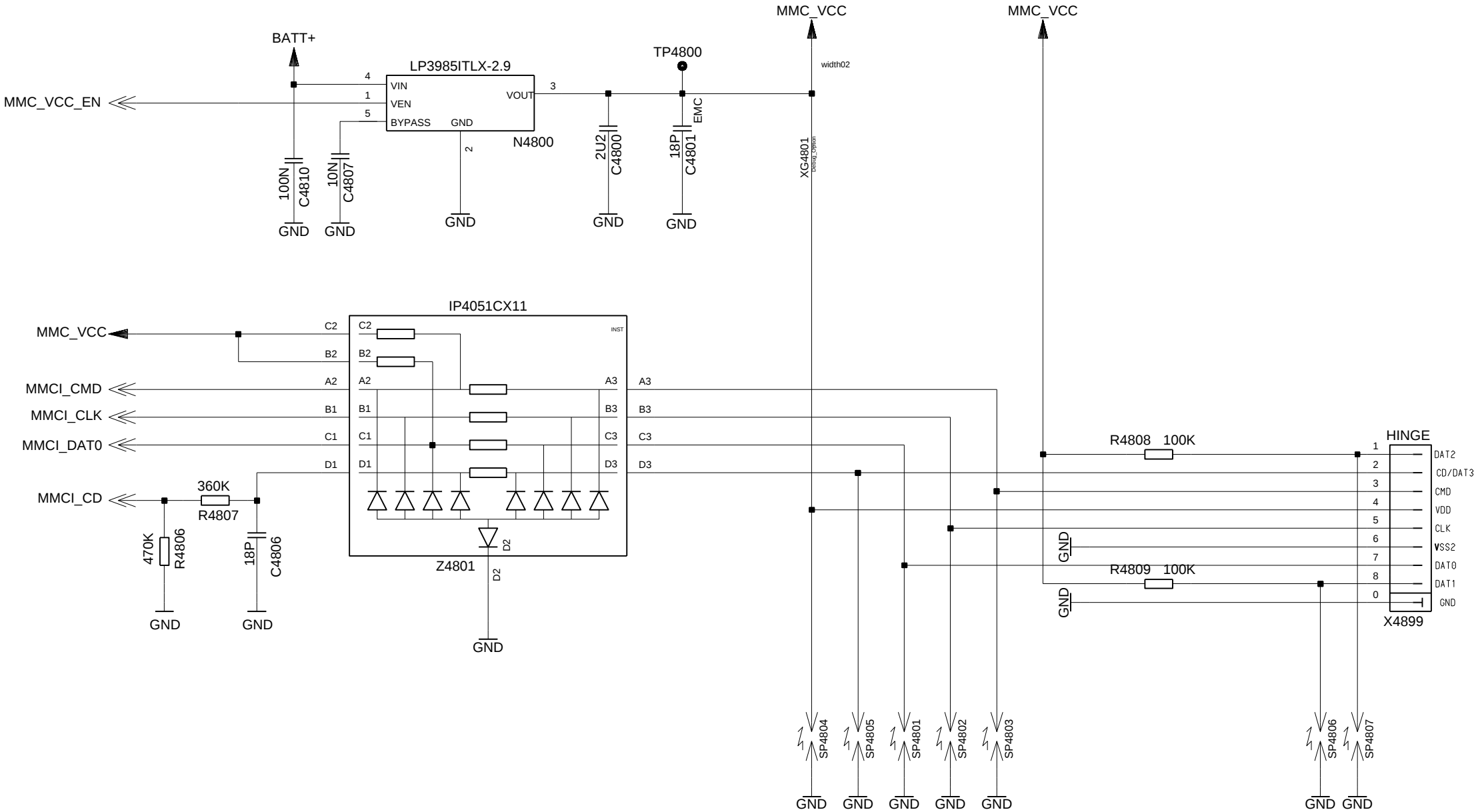
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				USER	Bartenschlag			
				APPR'D				
				PH RD IND LPM			286763	sheet35
				BENQ mobile				
1	40140	07.07.2006	bar					
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)				

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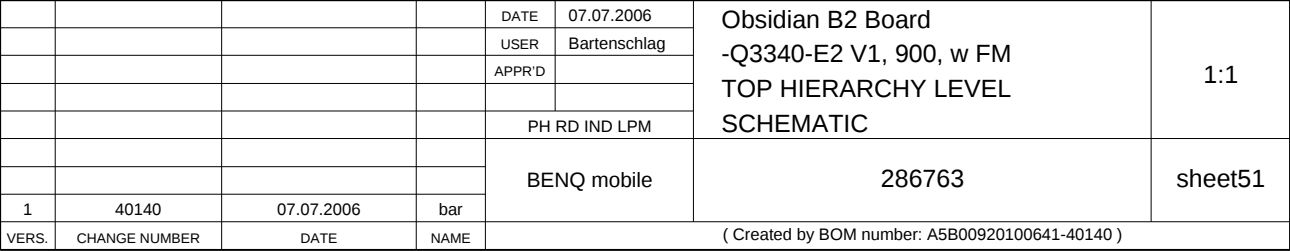
MMC READER

4800-4899



				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	sheet48
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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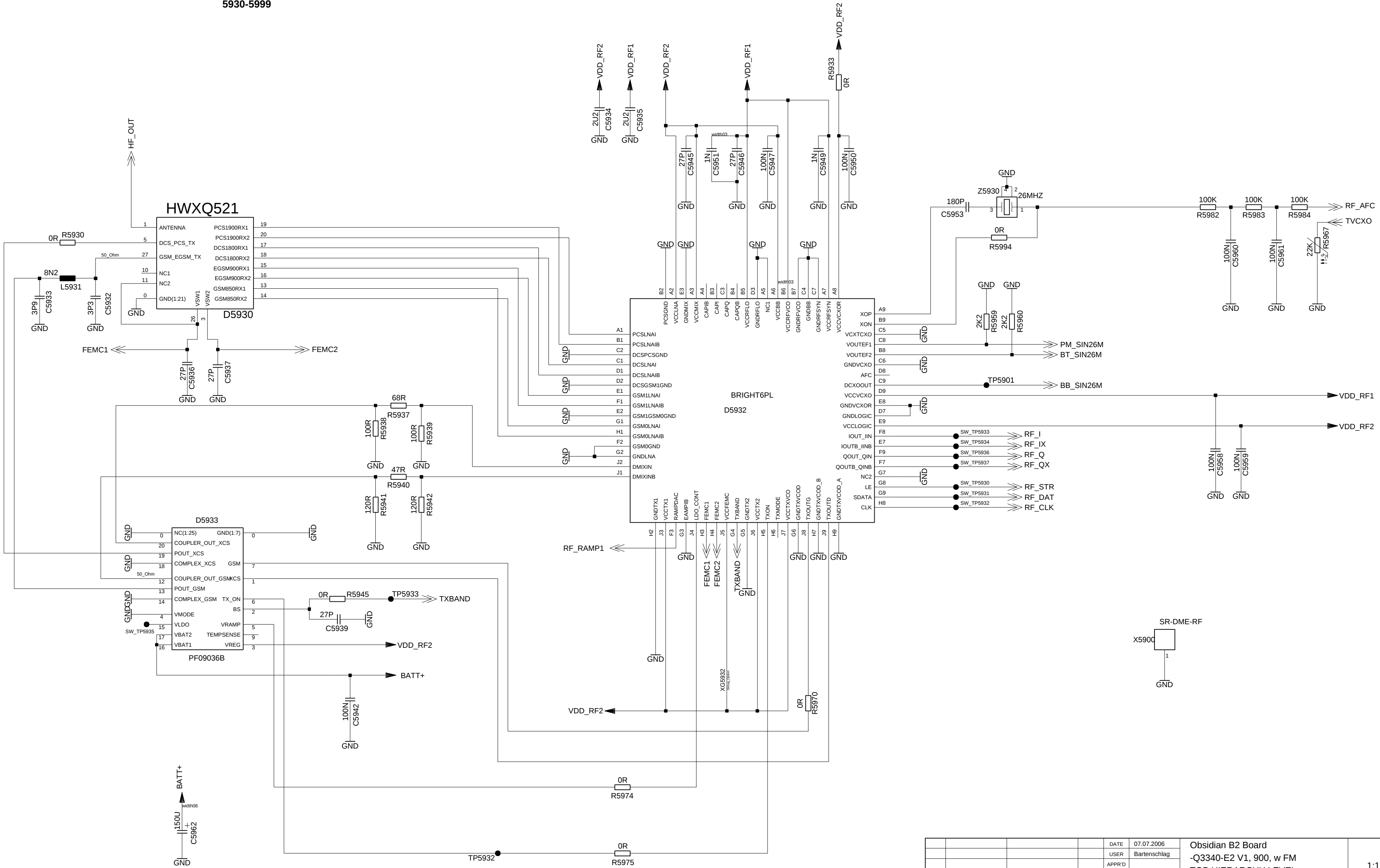


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RF_HITACHI_BRIGHT_6PLA

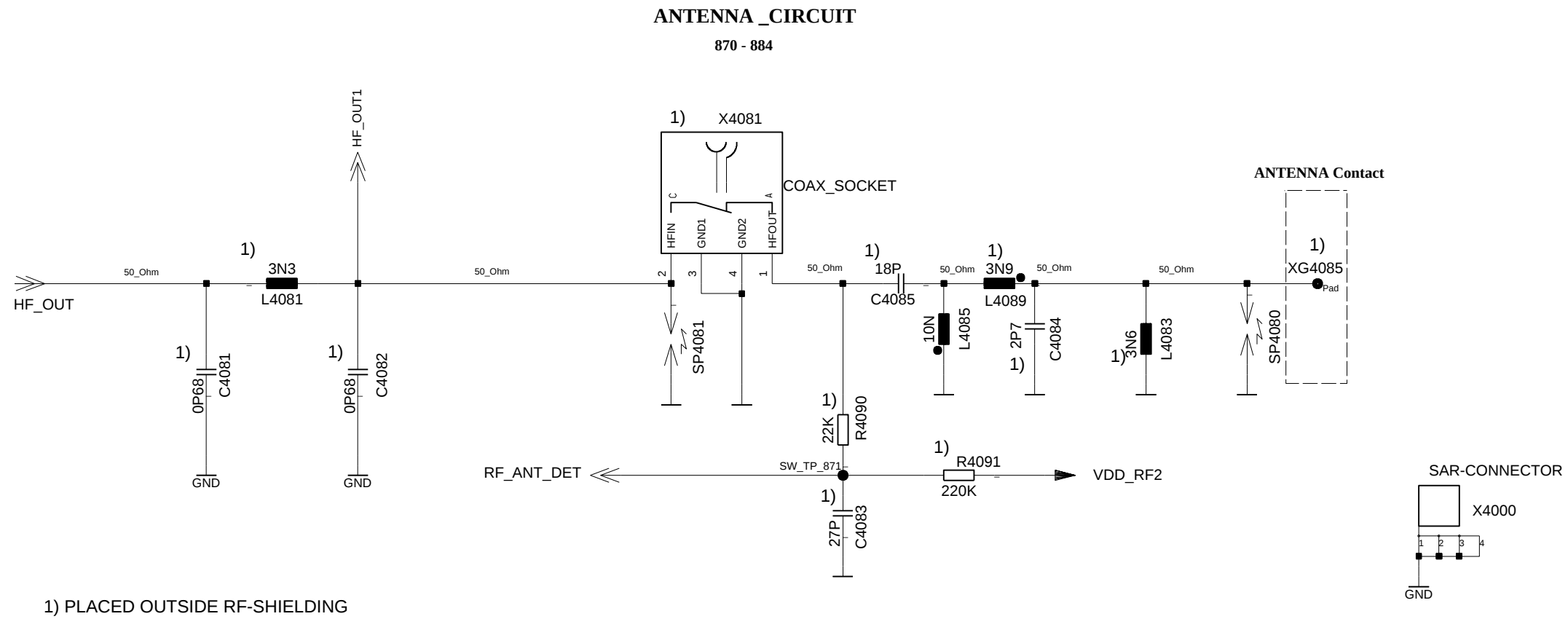
5930-5999



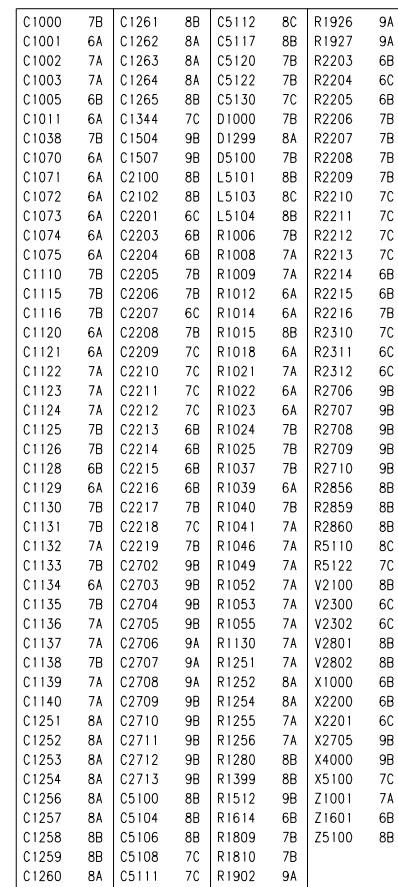
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				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM			
					BENQ mobile	286763	sheet59
1	40140	07.07.2006	bar	(Created by BOM number: A5B00920100641-40140)			
VERS.	CHANGE NUMBER	DATE	NAME				

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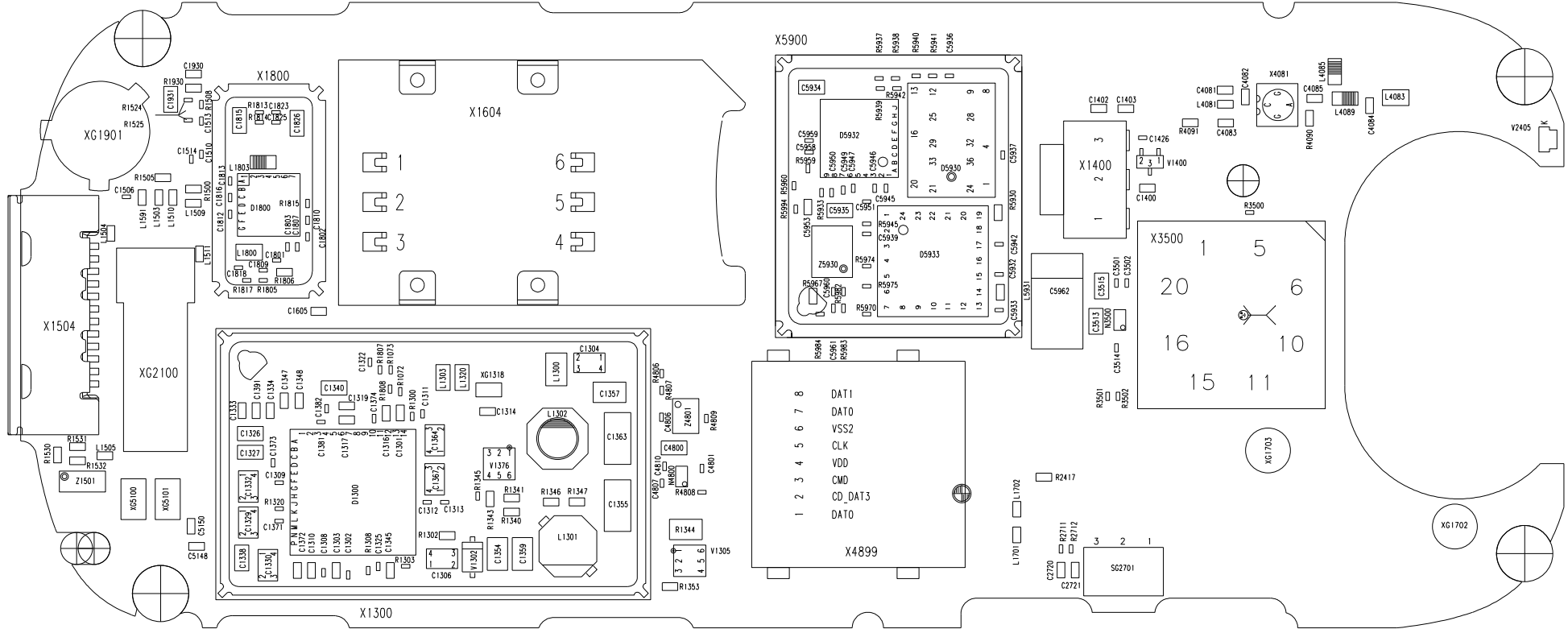
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				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bartenschlag		
				APPR'D			
				PH RD IND LPM		286763	sheet72
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			



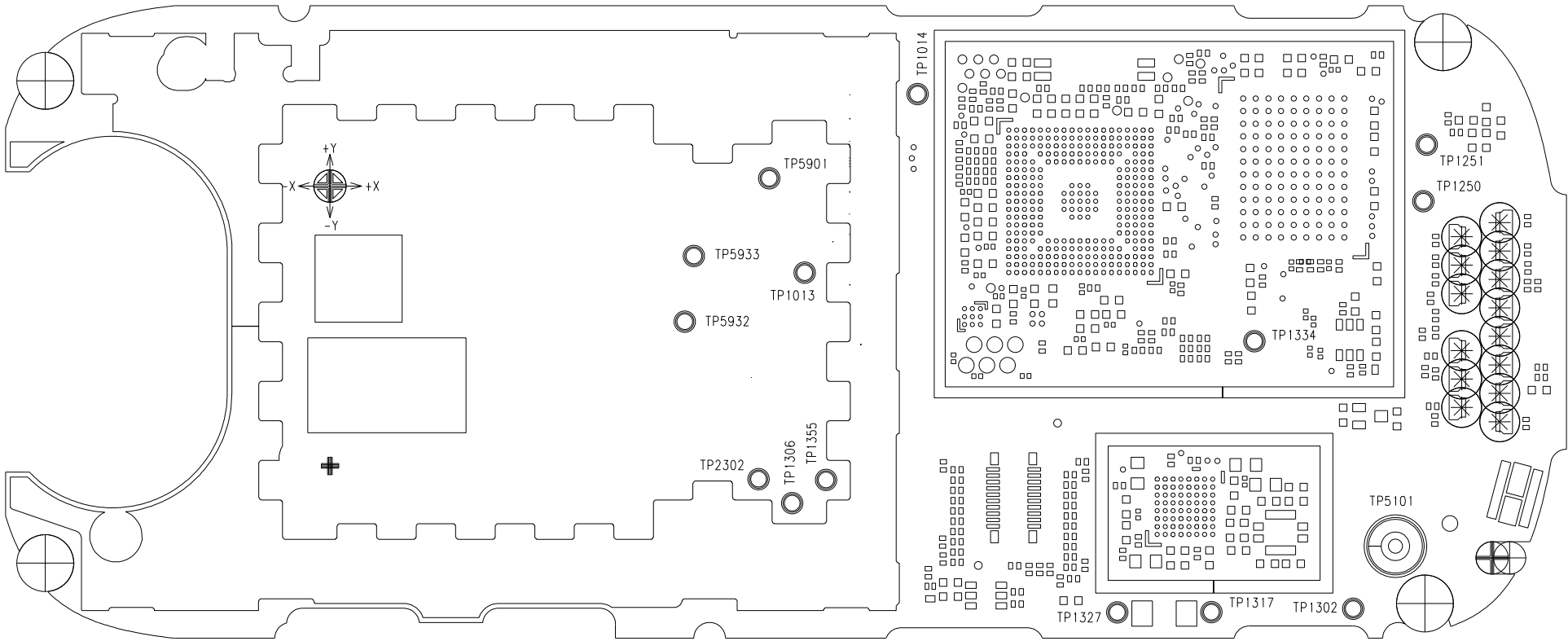
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				NAME	Bartenschl.		
				APPR'D			
				STD			
				PH RD	IND LPM		
				BENQ mobile		286764	SHEET 1+
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			



C1301	4B	C1403	7A	C5935	6A	R1072	4B	R5933	6A
C1302	3C	C1426	7A	C5936	6A	R1073	3B	R5937	6A
C1303	3C	C1506	2A	C5937	7A	R1300	4B	R5938	6A
C1304	5B	C1510	3A	C5939	6A	R1302	4B	R5939	6A
C1306	4C	C1513	3A	C5942	7A	R1303	4C	R5940	6A
C1308	3C	C1514	2A	C5945	6A	R1308	3C	R5941	6A
C1309	3B	C1605	3B	C5946	6A	R1320	3B	R5942	6A
C1310	3C	C1801	3B	C5947	6A	R1340	4B	R5945	6A
C1311	4B	C1802	3A	C5949	6A	R1341	4B	R5959	6A
C1312	4B	C1803	3A	C5950	6A	R1343	4B	R5960	5A
C1313	4B	C1807	3B	C5951	6A	R1344	5B	R5967	6B
C1314	4B	C1809	3B	C5953	6A	R1345	4B	R5970	6B
C1316	3B	C1810	3A	C5958	6A	R1346	4B	R5974	6B
C1317	3B	C1812	3A	C5959	6A	R1347	4B	R5975	6B
C1319	3B	C1813	3A	C5960	6B	R1353	5C	R5982	6B
C1322	3B	C1815	3A	C5961	6B	R1500	3A	R5983	6B
C1325	3C	C1816	3A	C5962	7B	R1505	2A	R5984	6B
C1326	3B	C1818	3B	D1300	3B	R1508	3A	R5994	6A
C1327	3B	C1823	3A	D1800	3A	R1524	2A	V1302	4C
C1329	3B	C1825	3A	D5930	6A	R1525	2A	V1305	5C
C1330	3C	C1826	3A	D5932	6A	R1530	2B	V1376	4B
C1332	3B	C1930	3A	D5933	6A	R1531	2B	V1400	7A
C1333	3B	C1931	2A	L1300	4B	R1532	2B	V2405	9A
C1334	3B	C2720	7C	L1301	4C	R1805	3B	X1300	3C
C1338	3C	C2721	7C	L1302	4B	R1806	3B	X1400	7A
C1340	3B	C3501	7B	L1303	4B	R1807	3B	X1504	2B
C1345	3C	C3502	7B	L1320	4B	R1808	3B	X1604	3A
C1347	3B	C3513	7B	L1503	2A	R1813	3A	X1800	3B
C1348	3B	C3514	7B	L1504	2A	R1814	3A	X3500	8A
C1354	4C	C3515	7B	L1505	2B	R1815	3A	X4081	8A
C1355	5B	C4081	8A	L1509	2A	R1817	3B	X4899	6B
C1357	5B	C4082	8A	L1510	2A	R1930	2A	X5900	7B
C1359	4C	C4083	8A	L1511	3B	R2417	7B	Z1501	2B
C1363	5B	C4084	8A	L1591	2A	R2711	7C	Z4801	5B
C1364	4B	C4085	8A	L1701	7B	R2712	7C	Z5930	6B
C1367	4B	C4800	5B	L1702	7B	R3500	8A		
C1371	3B	C4801	5B	L1800	3B	R3501	7B		
C1372	3C	C4806	5B	L1803	3A	R3502	7B		
C1373	3B	C4807	5B	L4081	8A	R4090	8A		
C1374	3B	C4810	5B	L4083	9A	R4091	7A		
C1381	3B	C5148	2C	L4085	8A	R4806	5B		
C1382	3B	C5150	2B	L4089	8A	R4807	5B		
C1391	3B	C5932	7B	L5931	7B	R4808	5B		
C1400	7A	C5933	7B	N3500	7B	R4809	5B		
C1402	7A	C5934	6A	N4800	5B	R5930	7A		

Achtung : Höhenprofil C24_____-42 (gilt nur fuer Entwicklung)
Liefervarianten siehe : V24851-Z2000-A1-*-35

				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM WIRING DIAGRAM (SOLDER SIDE 2)	3:1
				NAME	Bartenschl.		
				APPR'D			
				STD			
				PH RD IND LPM		286764	SHEET 2+
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VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

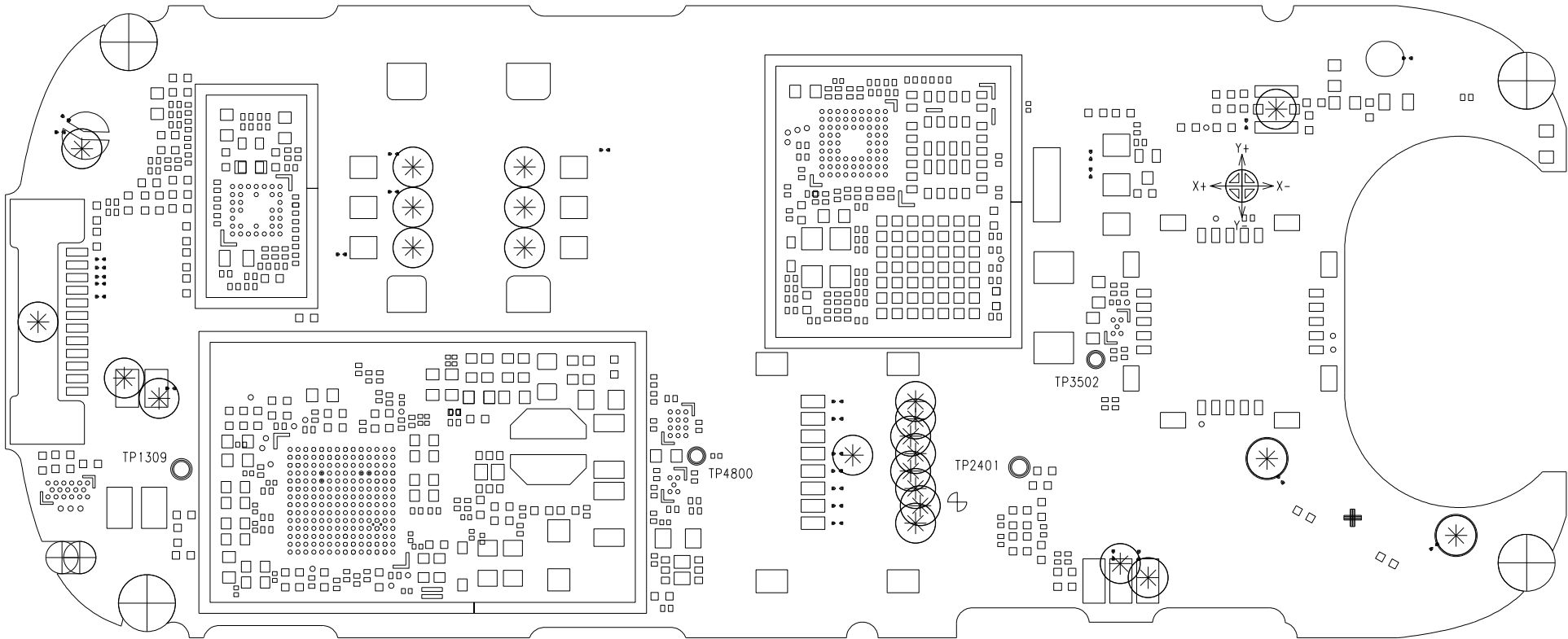


TP1013	6B	/TVCX0
TP1014	6A	/BREF
TP1250	9A	/F_VPP
TP1251	9A	1.8V_MEM2
TP1302	8C	/PM_WAD0G2
TP1306	5B	2.9V
TP1317	8C	/NS532316
TP1327	7C	VBUCK
TP1334	8B	/PM_RESET_N
TP1355	6B	VBOOST
TP2302	5B	/LCD_BCKLT
TP5101	8B	/NS457504
TP5901	5A	/BB_SIN26M
TP5932	5B	/NS546035
TP5933	5B	/TXBAND

				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TESTPOINT DIAGRAMM (SIDE 1)	3:1
				NAME	Bartenschl.		
				APPR'D			
				STD			
				PH RD IND LPM		286765	SHEET 1+
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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TP1309	38	2.65V
TP2401	78	/N554056
TP3502	78	DVDD_CAMERA
TP4800	58	MMC_VCC

				DATE	07.07.2006	Obsidian B2 Board -Q3340-E2 V1, 900, w FM TESTPOINT DIAGRAMM (SIDE 2)	3:1
				NAME	Bartenschl.		
				APPR'D			
				STD			
				PH RD IND LPM		286765	SHEET 2-
				BENQ mobile			
1	40140	07.07.2006	bar				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00920100641-40140)			

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1		2		3		4		5	
HIERARCHY						SHEET		PDF-SHEET	
A5B00900217367-38288						index		sheet 1	
						netlist1		sheet 2	
						poslist1		sheet 3	
						page1		----	
						sheet1		sheet 4	

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1		2		3		4		5	
KB_ON_OFF /sheet1 9 D /sheet1 3 E KP_IN0 /sheet1 9 D /sheet1 1 B KP_IN1 /sheet1 9 D /sheet1 1 B KP_IN2 /sheet1 9 D /sheet1 1 C KP_IN3 /sheet1 9 D /sheet1 1 C KP_IN4 /sheet1 9 D /sheet1 1 D KP_IN5_OUT6 /sheet1 9 D /sheet1 4 D KP_OUT0 /sheet1 9 D /sheet1 1 D KP_OUT1 /sheet1 9 D /sheet1 2 D KP_OUT2 /sheet1 9 D /sheet1 3 D KP_OUT3 /sheet1 9 D /sheet1 4 D LIGHT_KP /sheet1 9 D /sheet1 9 C VCC_LIGHT /sheet1 9 A /sheet1 9 E									
				DATE	15.12.2005	MMI Obsidian Variant V1 4-layer TOP HIERARCHY LEVEL SCHEMATIC			1:1
				USER	Bak				
				APPR'D					
				MP PD HW4 AAL					
				BENQ mobile		273854			netlist1
1	38290	19.04.2006	olh						
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00900217369-38290)					

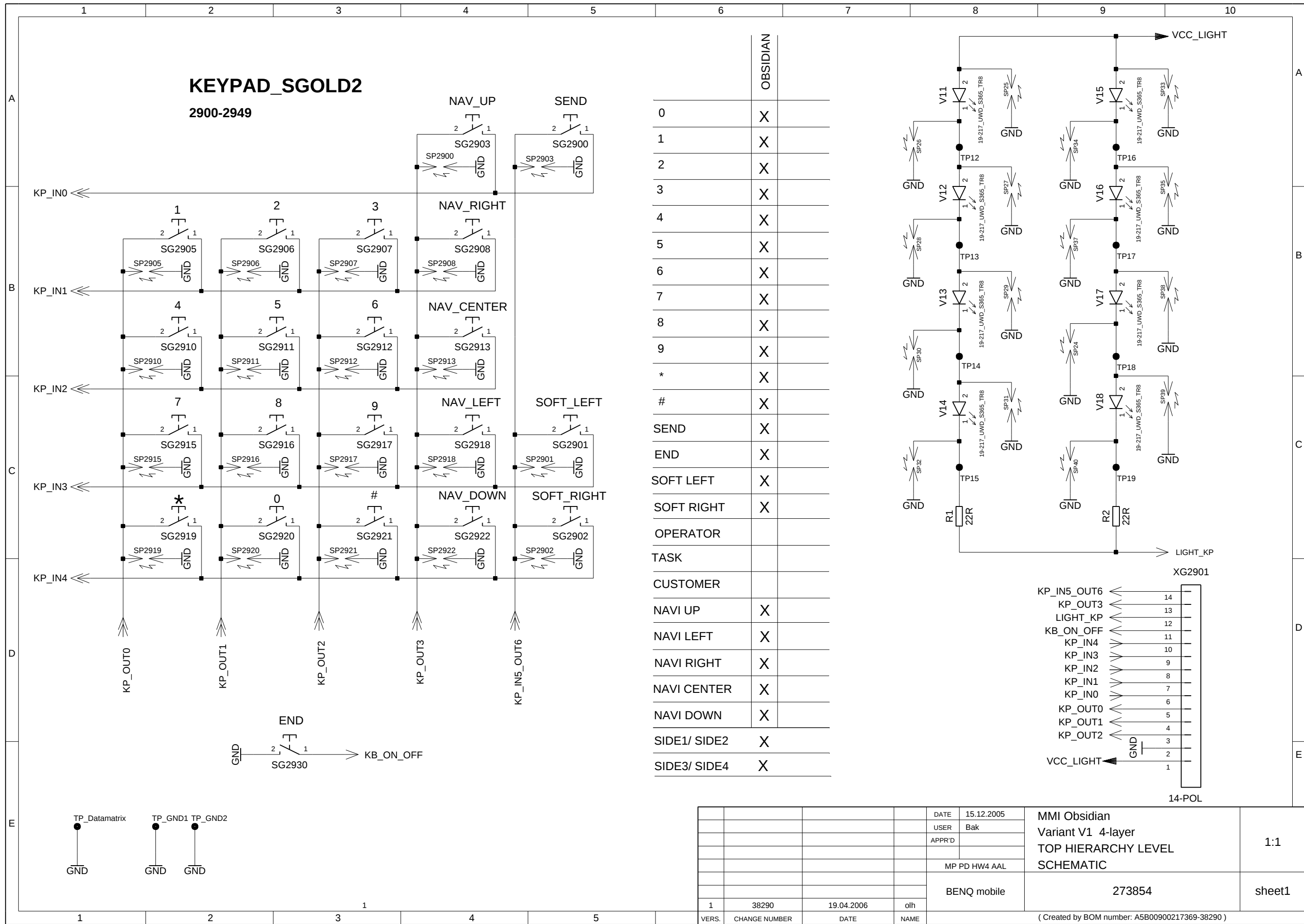
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	1	2	3	4	5
A	R1 /sheet1 8 C R2 /sheet1 9 C TP19 /sheet1 9 C TP18 /sheet1 9 B TP17 /sheet1 9 B TP13 /sheet1 8 B TP12 /sheet1 8 A TP15 /sheet1 8 C TP16 /sheet1 9 A TP14 /sheet1 8 B V11 /sheet1 8 A V12 /sheet1 8 A V13 /sheet1 8 B V14 /sheet1 8 C V15 /sheet1 9 A V16 /sheet1 9 A V17 /sheet1 9 B V18 /sheet1 9 C				
B					
C					
D					
E					

				DATE	15.12.2005	MMI Obsidian Variant V1 4-layer TOP HIERARCHY LEVEL SCHEMATIC	1:1
				USER	Bak		
				APPR'D			
				MP PD HW4 AAL			
1	38290	19.04.2006	olh	BENQ mobile		273854	poslist1
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00900217369-38290)			

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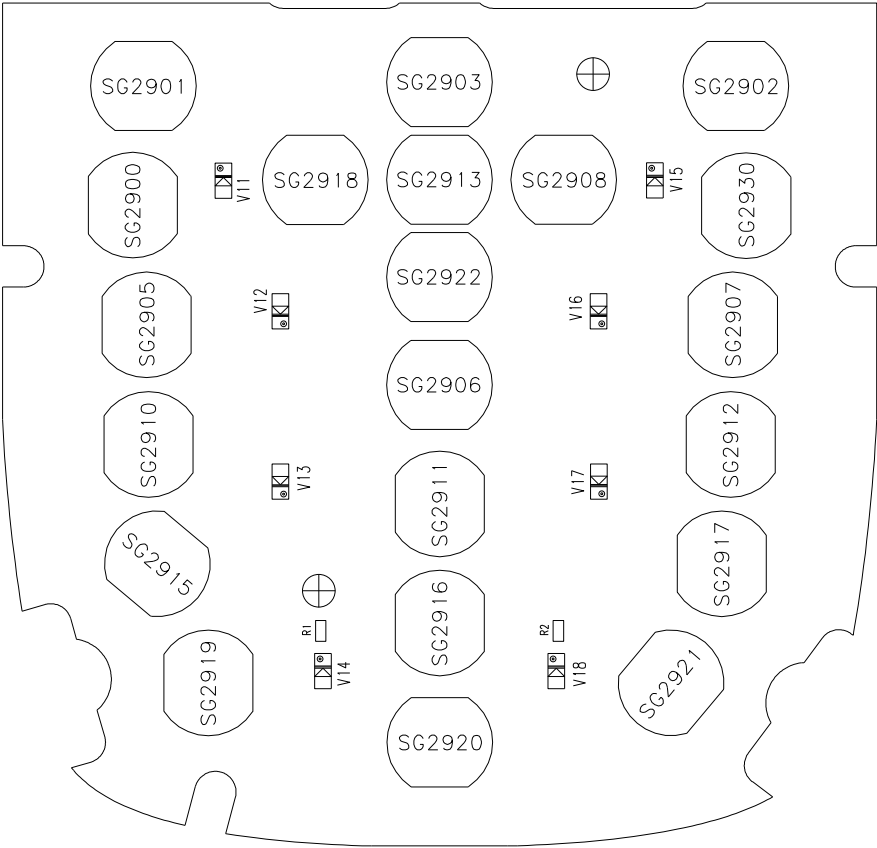


				DATE	15.12.2005	MMI Obsidian	
				USER	Bak	Variant V1 4-layer	
				APPR'D		TOP HIERARCHY LEVEL	1:1
						SCHEMATIC	
					MP PD HW4 AAL		
					BENQ mobile	273854	sheet1
1	38290	19.04.2006	olh				
VERS.	CHANGE NUMBER	DATE	NAME			(Created by BOM number: A5B00900217369-38290)	

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R1	5C
R2	6C
V11	5B
V12	5B
V13	5C
V14	5C
V15	7B
V16	6B
V17	6C
V18	6C

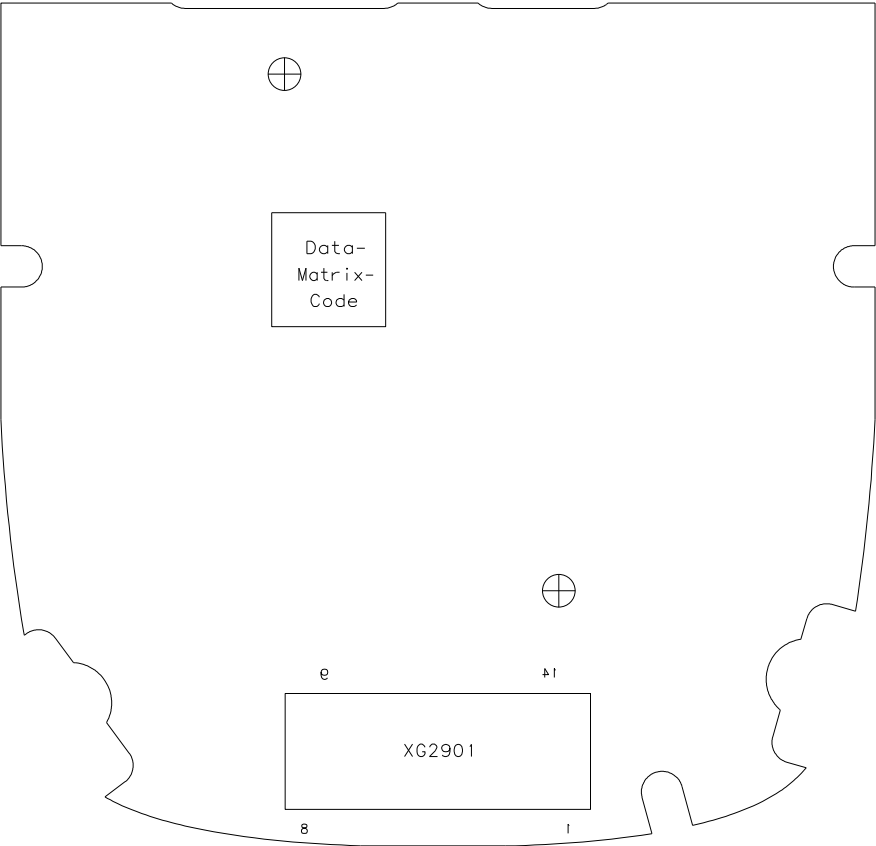


Achtung : Höhenprofil C24____-____-42 (gilt nur fuer Entwicklung)
Liefervarianten siehe : V24851-Z2000-A1-*-35

				DATE	15.12.2005	MMI Obsidian Variant V1 4-layer WIRING DIAGRAMM (SOLDER SIDE 1)	3:1
				NAME	Bak		
				APPR'D			
				STD			
				MP PD HW4 AAL			
				BENQ mobile		273855	SHEET
1	38290	19.04.2006	o1h				1+
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00900217369-38290)			

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ALLE RECHTE VORBEHALTEN

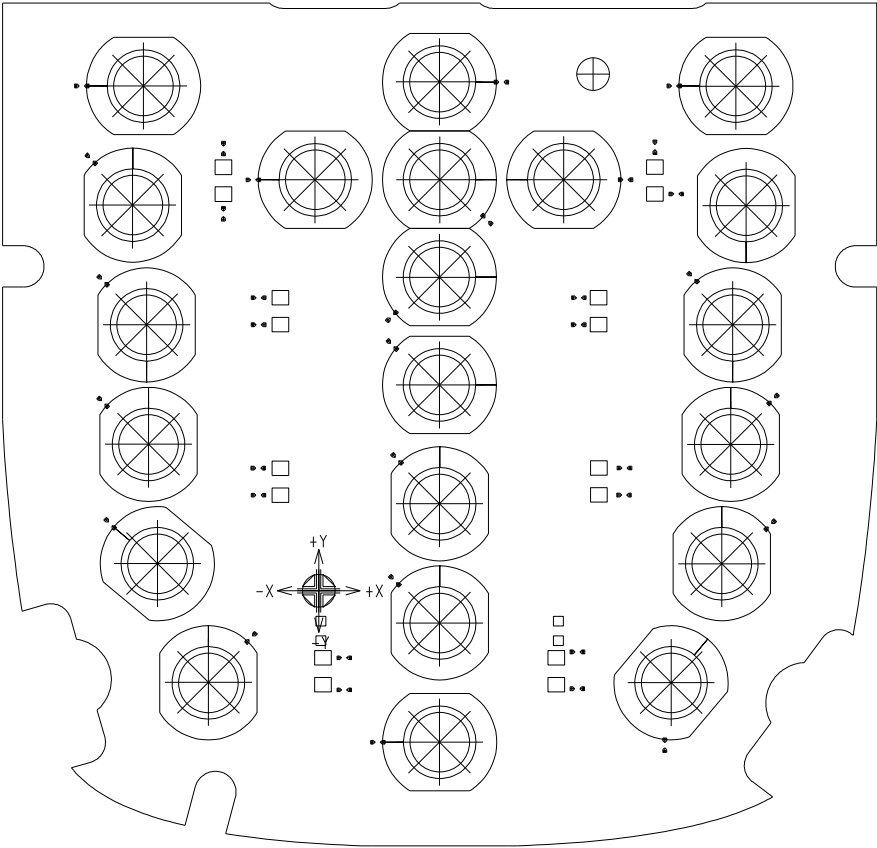


Achtung : Höhenprofil C24_____-_____-42 (gilt nur fuer Entwicklung)
Liefervarianten siehe : V24851-Z2000-A1-*-35

				DATE	15.12.2005	MMI Obsidian Variant V1 4-layer WIRING DIAGRAMM (SOLDER SIDE 2)	3:1
				NAME	Bak		
				APPR'D			
				STD			
				MP PD HW4 AAL		273855	SHEET 2+
				BENQ mobile			
1	38290	19.04.2006	o1h				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00900217369-38290)			

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ALLE RECHTE VORBEHALTEN



				DATE	15.12.2005	MMI Obsidian Variant V1 4-layer TESTPOINT DIAGRAMM (SIDE 1)	3:1
				NAME	Bak		
				APPR'D			
				STD			
				MP PD HW4 AAL		273856	SHEET 1+
				BENQ mobile			
1	38290	19.04.2006	o1h				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00900217369-38290)			

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ALLE RECHTE VORBEHALTEN

1 2 3 4 5 6 7 8 9 10

A

A

B

B

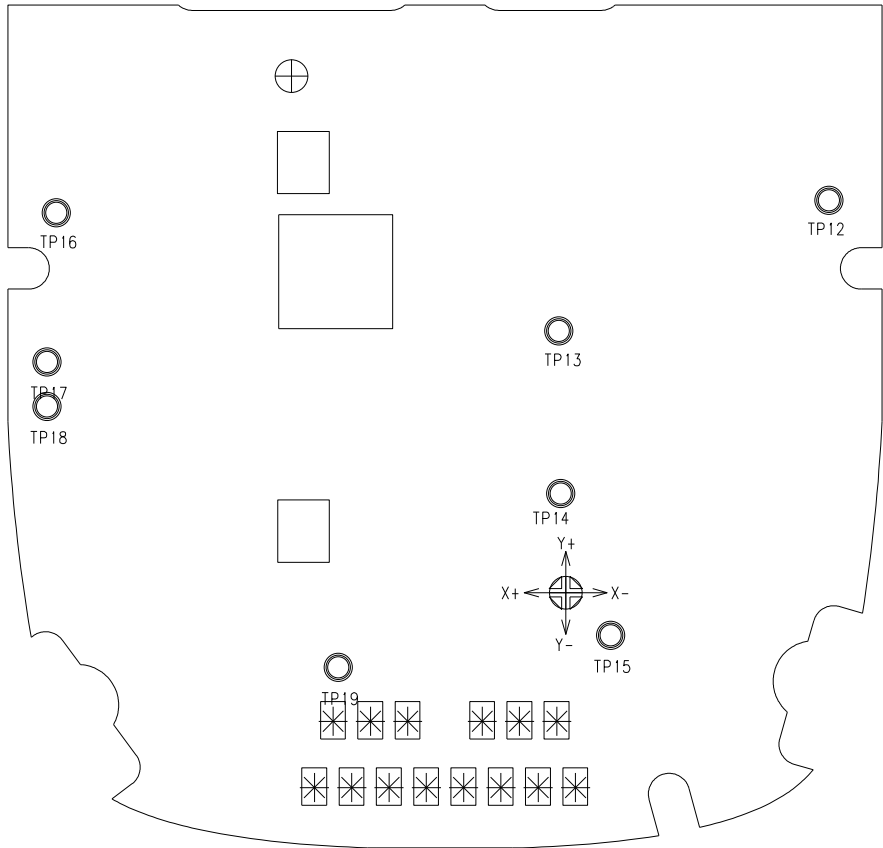
C

C

D

D

E



TP12	6B	/NS11119
TP13	5B	/NS11120
TP14	5C	/NS11122
TP15	5C	/NS12159
TP16	3B	/NS11123
TP17	3B	/NS12370
TP18	3B	/NS12369
TP19	4C	/NS12368

				DATE	15.12.2005	MMI Obsidian Variant V1 4-layer TESTPOINT DIAGRAMM (SIDE 2)	3:1
				NAME	Bak		
				APPR'D			
				STD			
				MP PD HW4 AAL		273856	SHEET 2-
				BENQ mobile			
1	38290	19.04.2006	o1h				
VERS.	CHANGE NUMBER	DATE	NAME	(Created by BOM number: A5B00900217369-38290)			

1 2 3 4 5

E71 RF Diagram

