

Nokia Customer Care

Service Manual

RM-429 (Nokia 3610 fold)

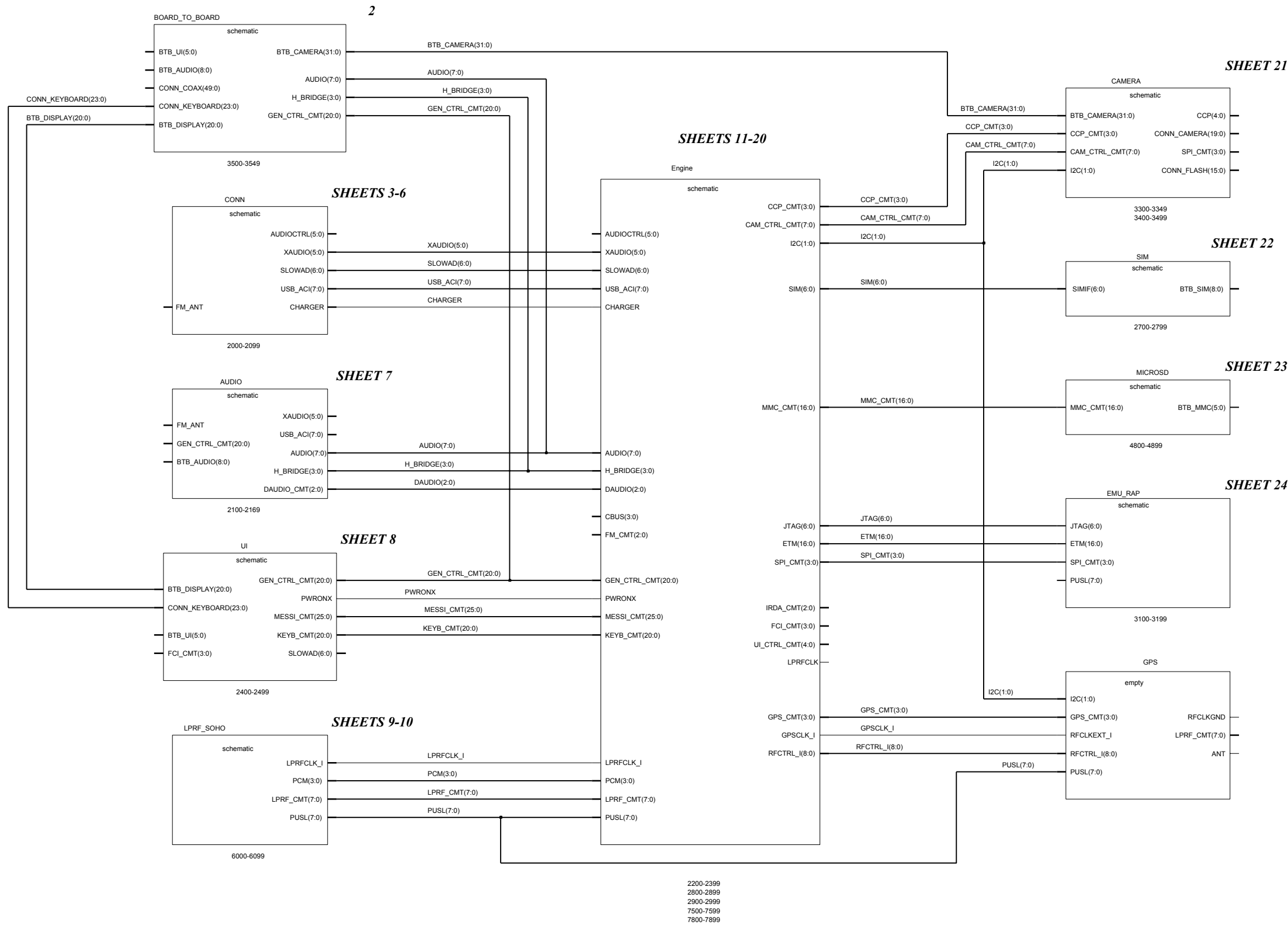
Schematics

Part No: (Issue 1)

COMPANY CONFIDENTIAL



MAIN BOARD TOP LEVEL

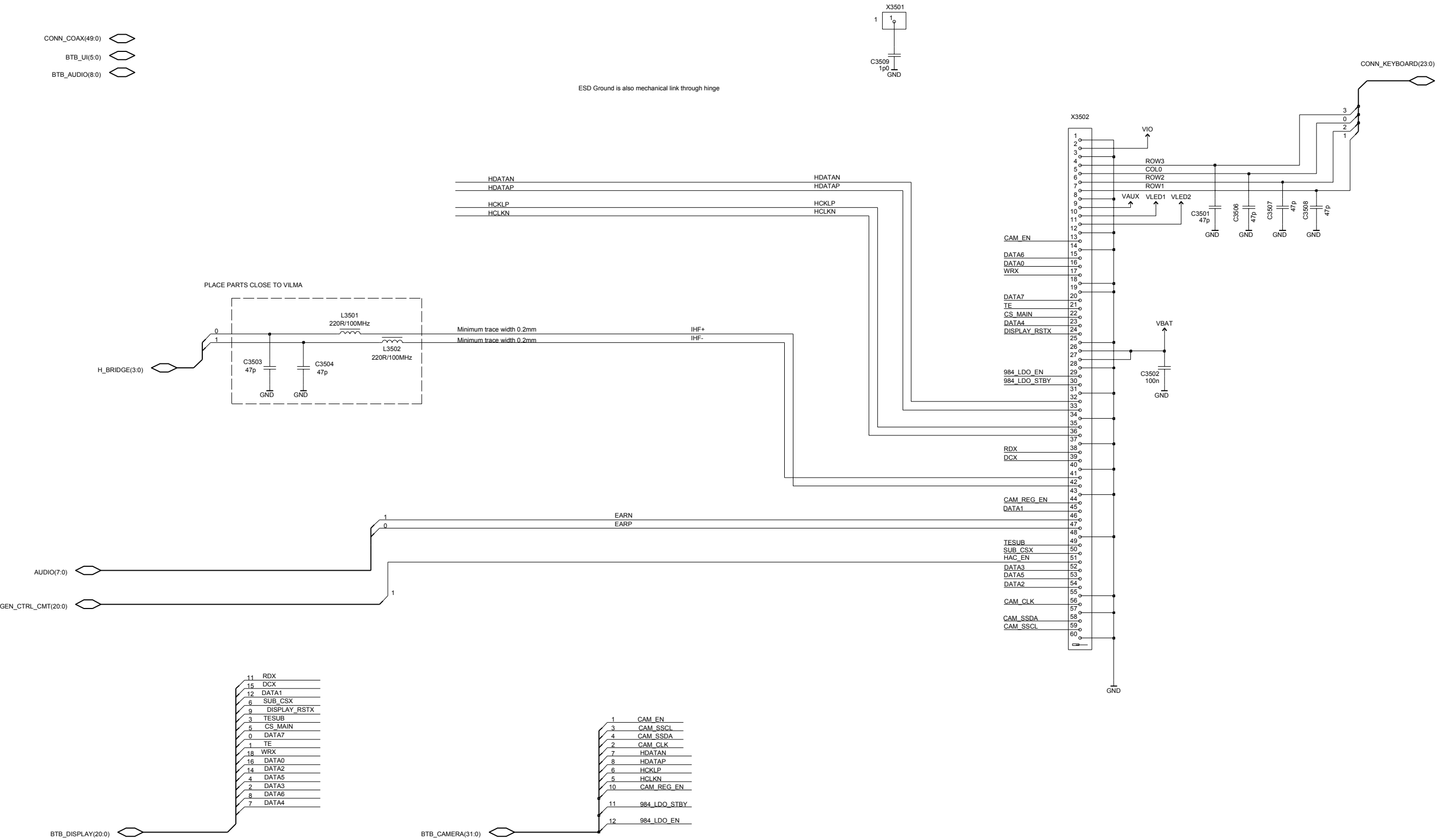


Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation

NOKIA

Name TOP LEVEL - MAIN BOARD

B2B CONNECTOR



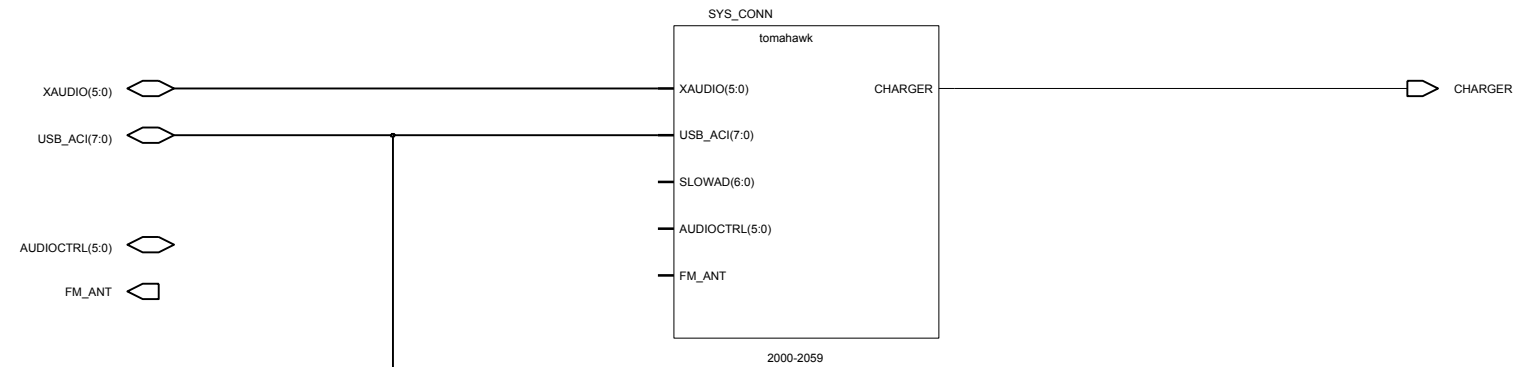
Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation



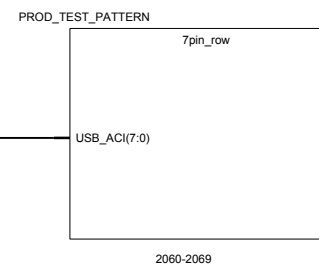
Name BTB CONNECTOR INTERFACE

CONNECTORS

SHEET 4



SHEET 5



SHEET 6



Copyright (C) Nokia Corporation. All rights reserved.

THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.

This document is property of Nokia Corporation

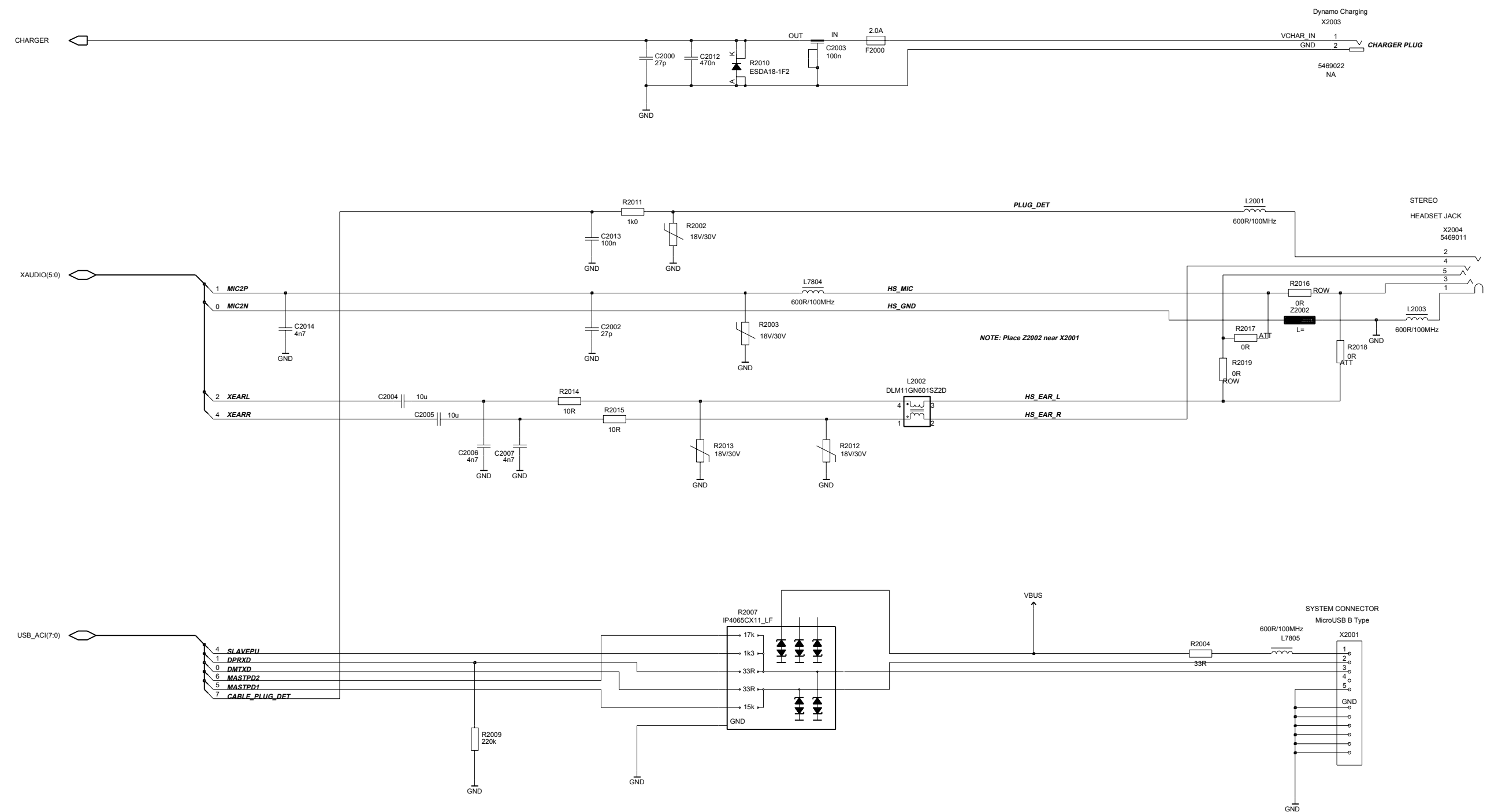


Name	CONNECTORS
------	------------

SYSTEM CONNECTORS

DYNAMO, UHJ AND MICRO USB CONNECTORS

AUDIOCTRL(5:0)
FM_ANT
SLOWAD(6:0)



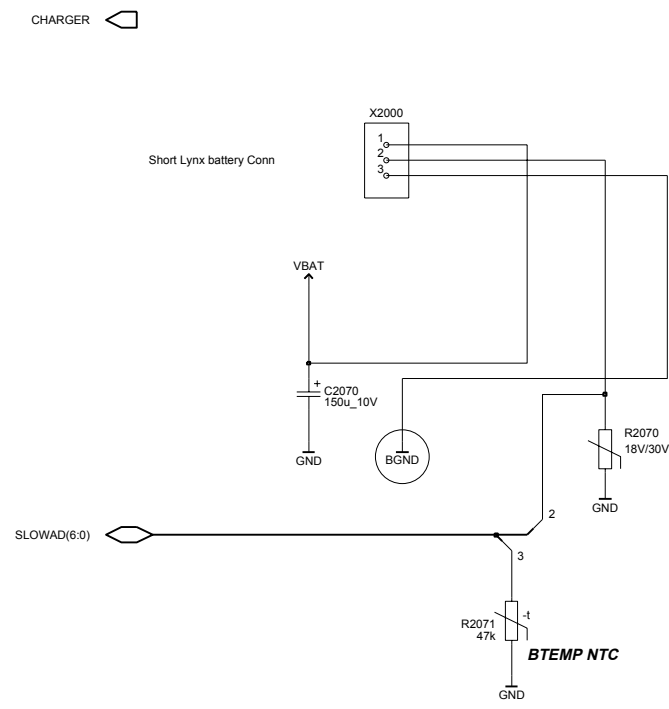
A



C



BATTERY CONNECTOR



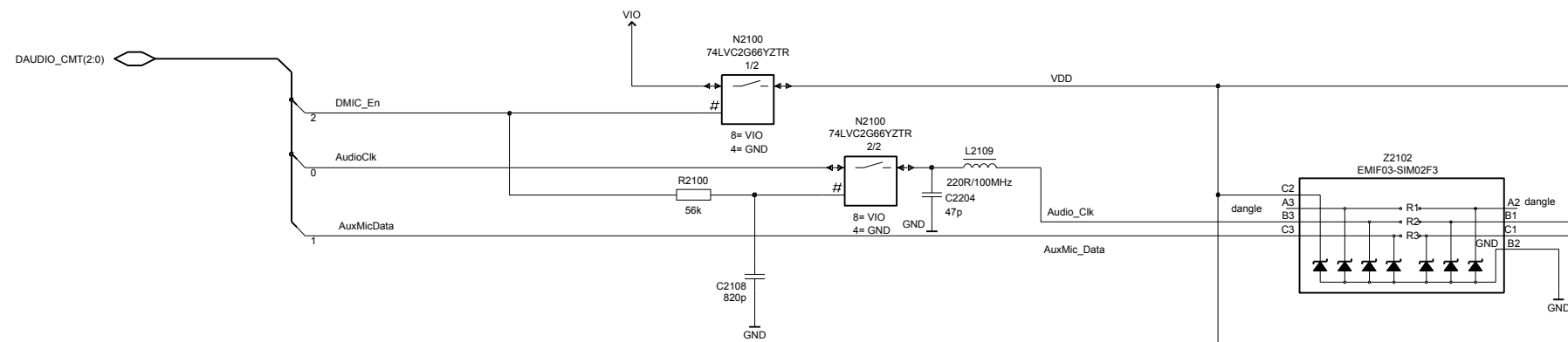
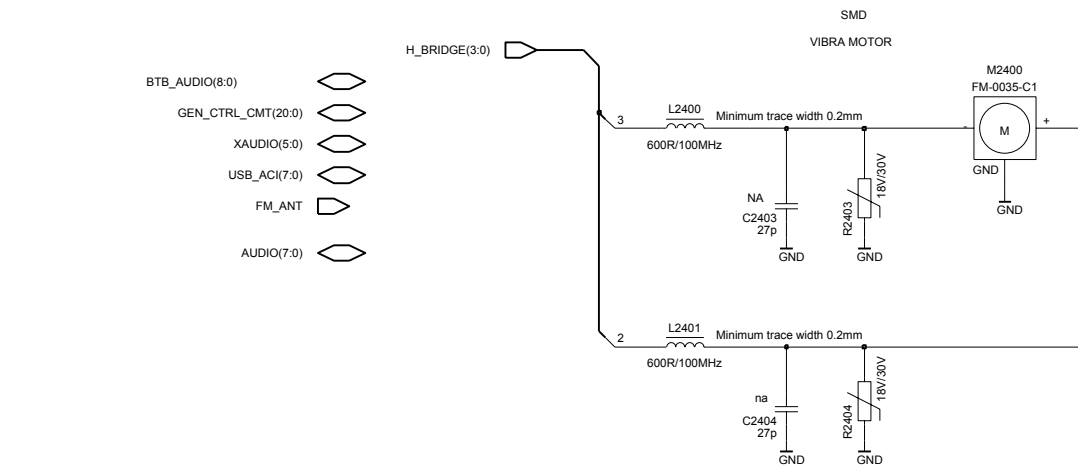
*R2070 IS NEEDED IF VILMA IS FAR FROM BATTERY CONNECTOR
PLACE R2070 NEAR BATTERY CONNECTOR*

Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation

NOKIA

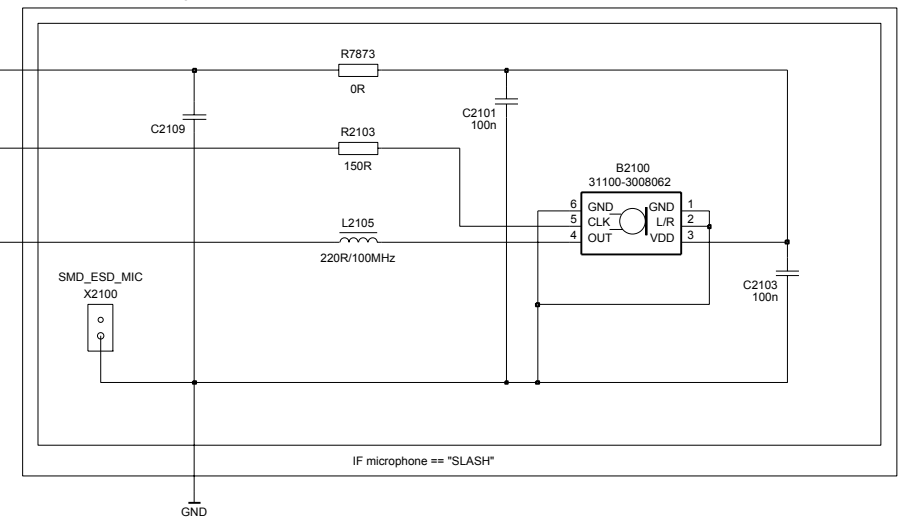
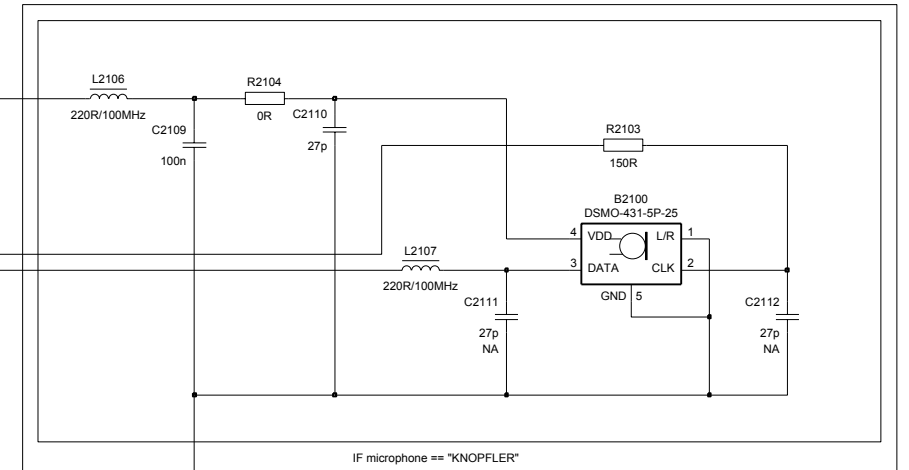
Name BATTERY CONNECTOR

AUDIO



Updated MIC part number to 5140024 (Primary)

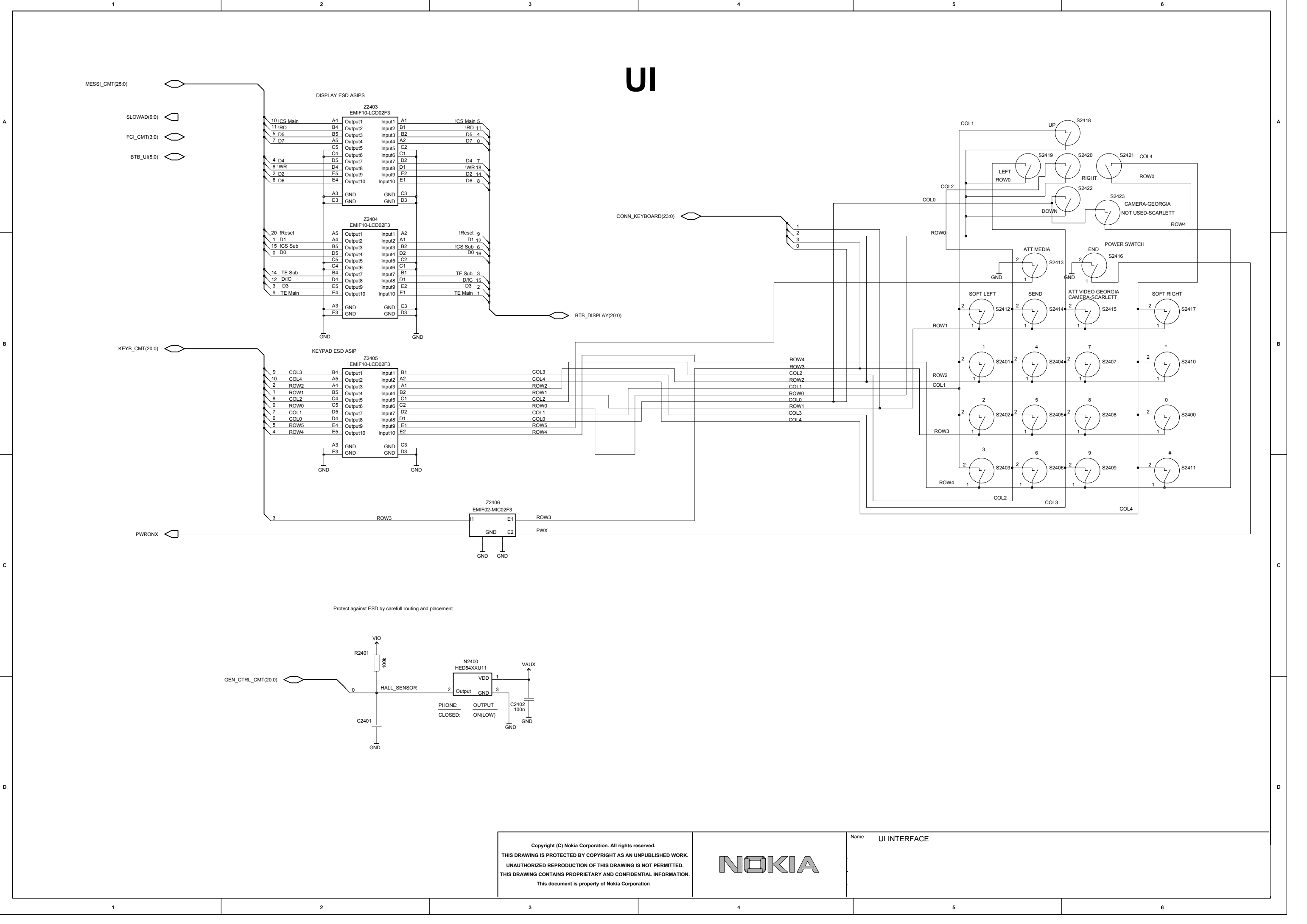
Microphone



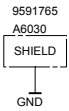
Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation

NOKIA

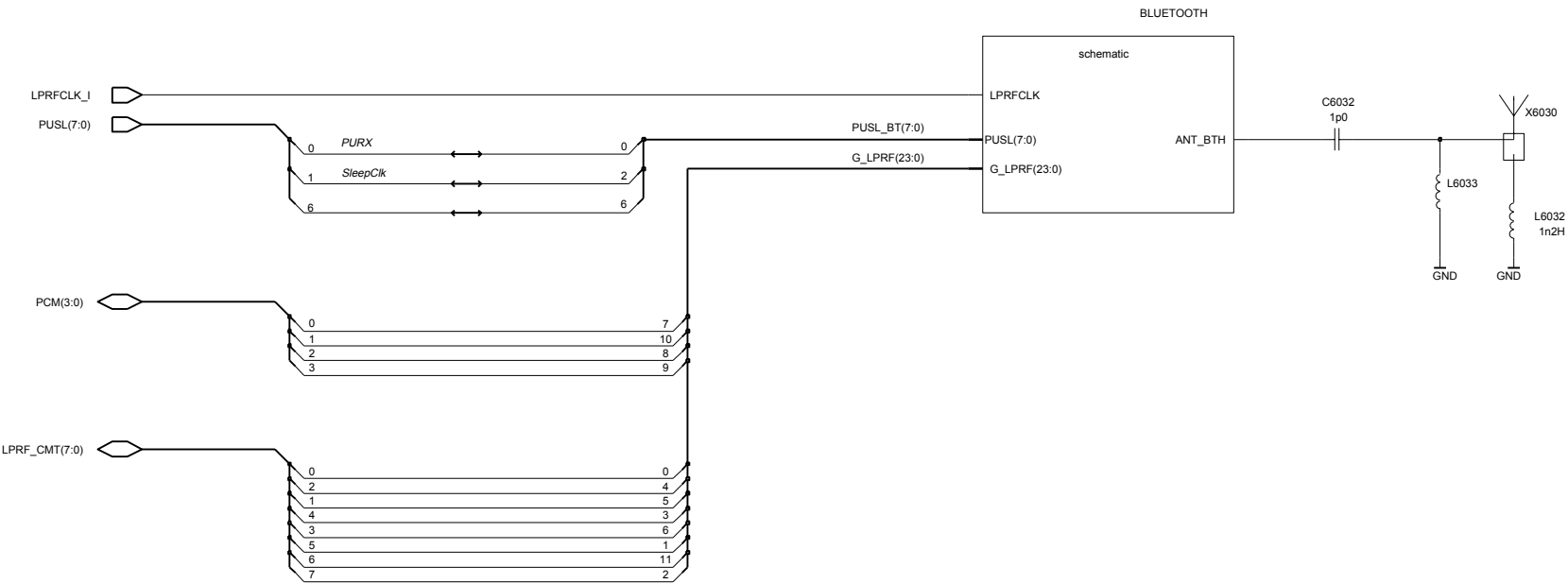
Name AUDIO



BLUETOOTH TOP LEVEL



SHEET 10

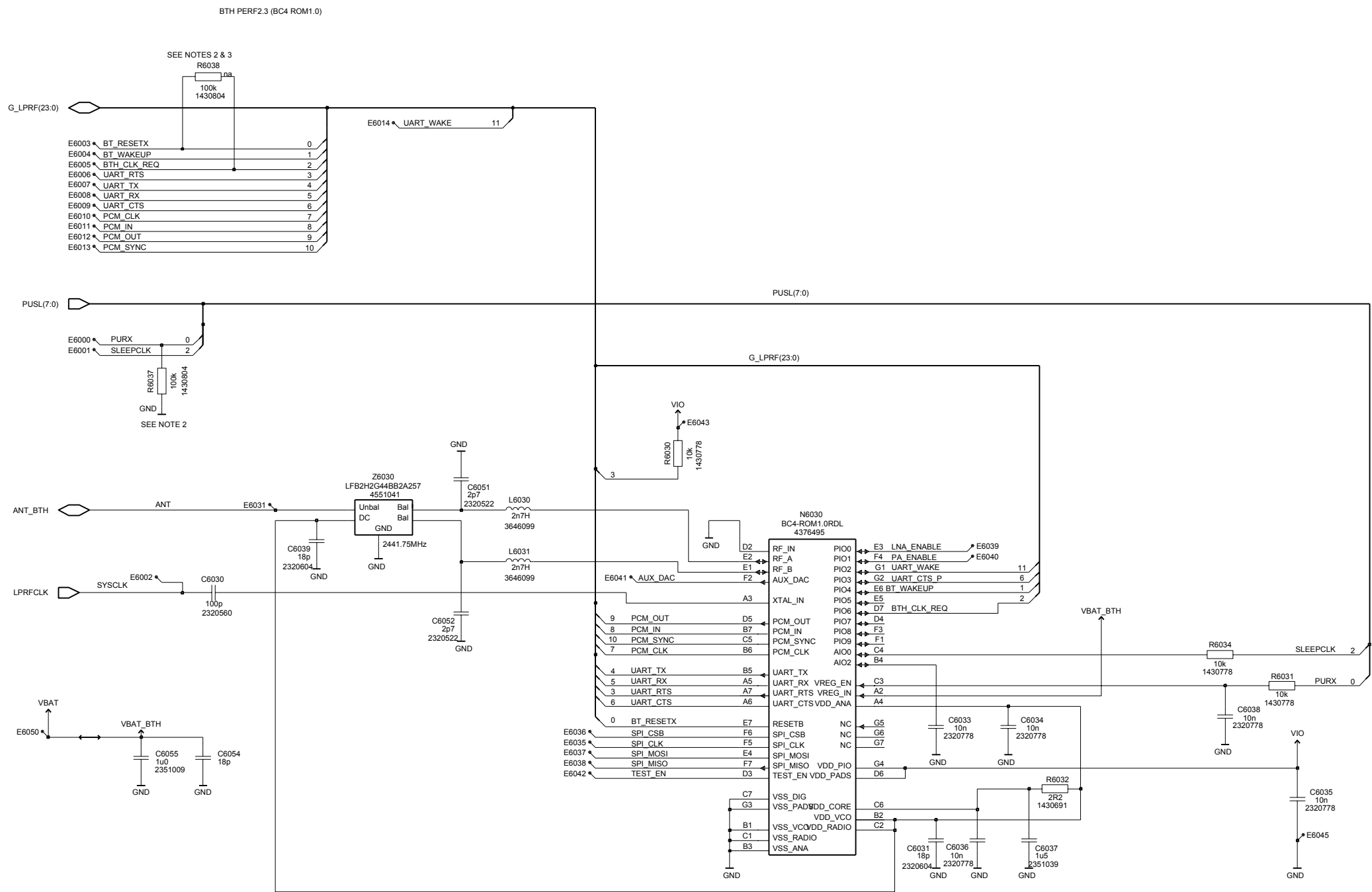


Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation



Name BLUETOOTH

BLUETOOTH



Notes

(1) R6037 & R6038 may be located where convenient and do not have to be in the Bluetooth area.

(2) R6038 to be fitted if :-

(a) Host is running from different VCTCXO than BC4.

OR (b) BT_RESETX line is being used to gate REF_CLK for BC4.

For all other cases R6038 is Not Fitted.

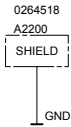
Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation



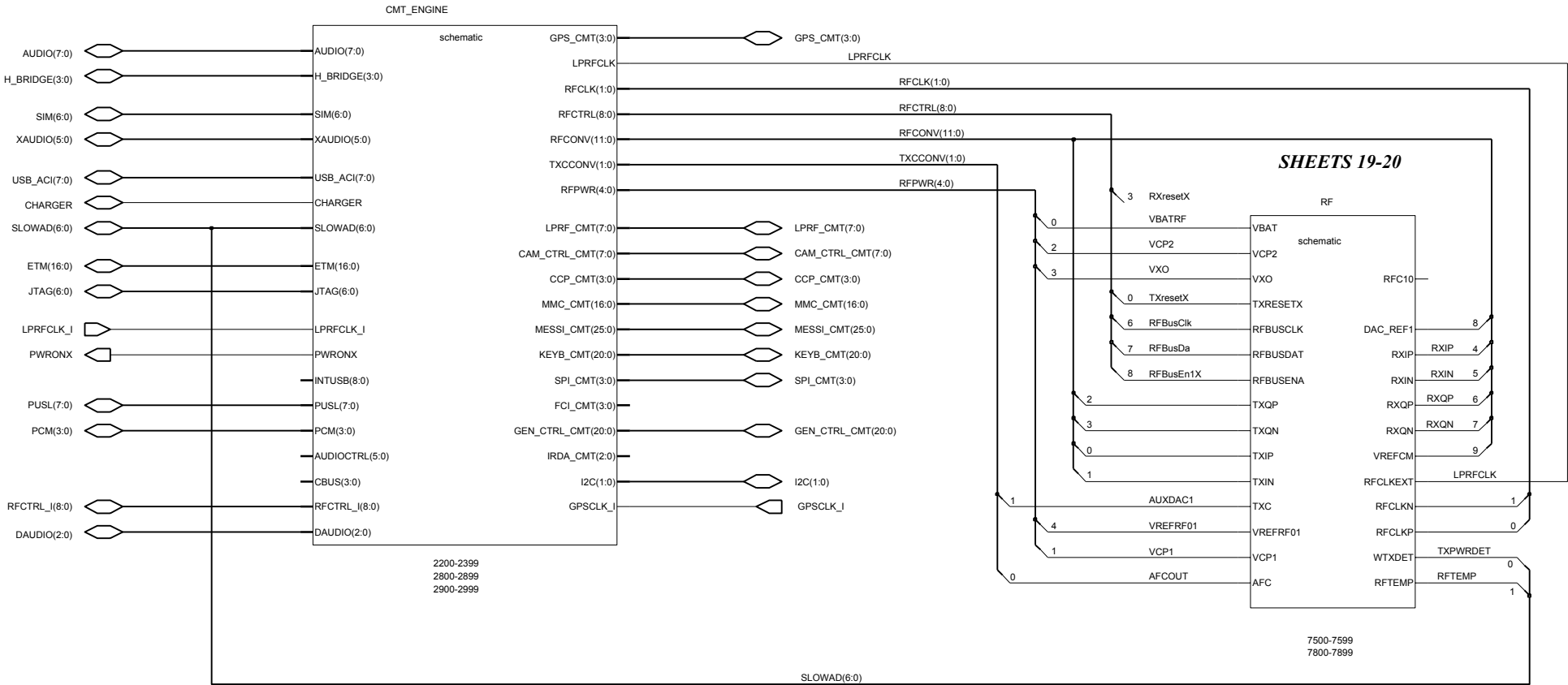
Name BTHPERF 2.3 (BC4 ROM1.0)

ENGINE

- FM_CMT(2:0)
- UI_CTRL_CMT(4:0)
- LPRFCLK
- AUDIOCTRL(5:0)
- CBUS(3:0)
- FCI_CMT(3:0)
- IRDA_CMT(2:0)

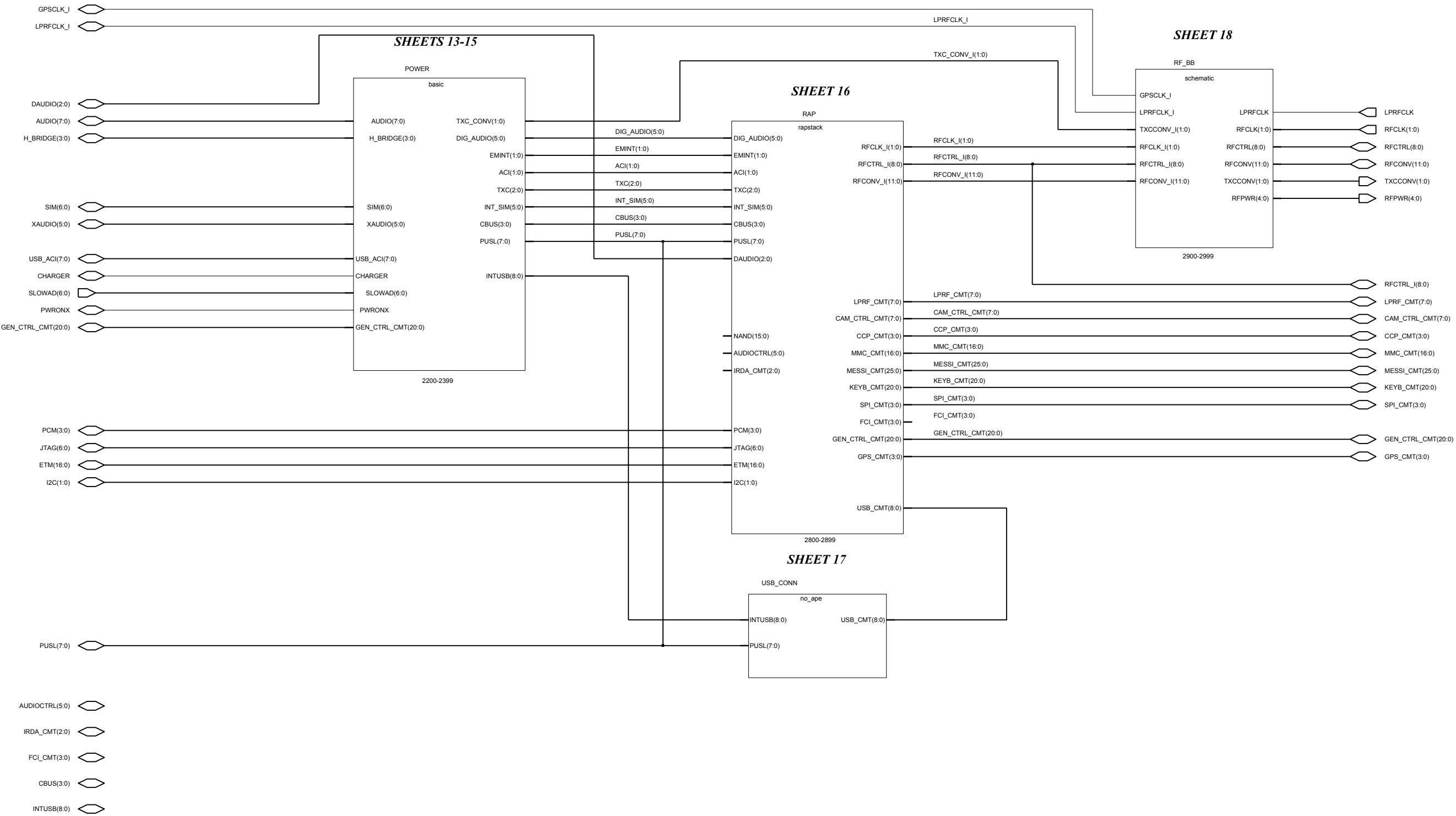


SHEETS 12-18



SHEETS 19-20

CMT ENGINE TOP LEVEL



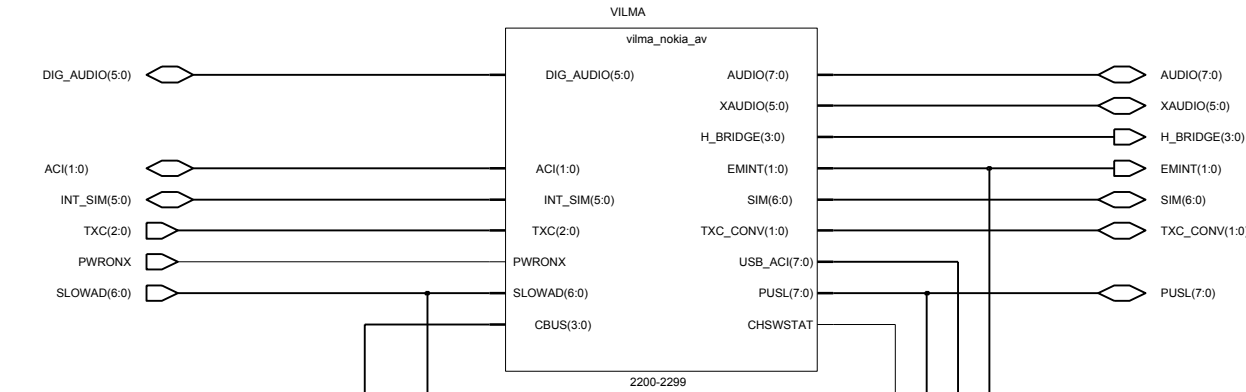
Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation

NOKIA

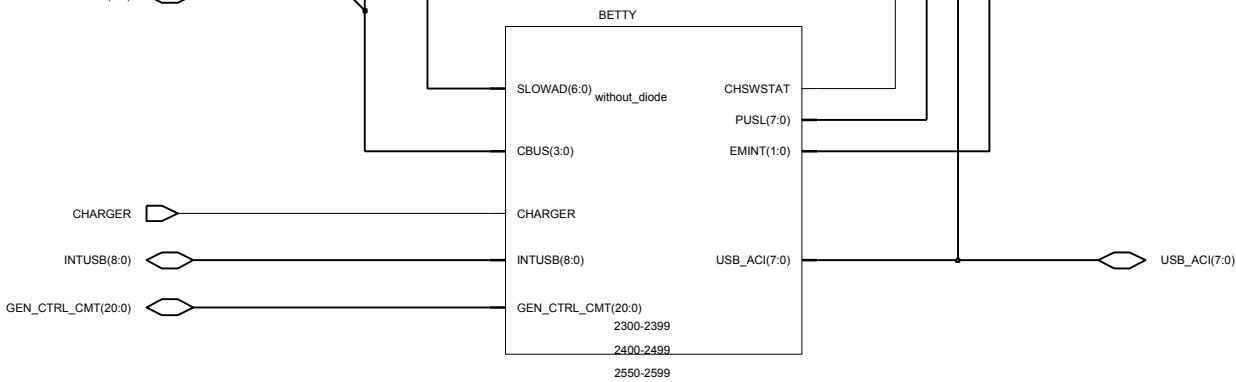
Name CMT_Engine Top level

POWER TOP LEVEL

SHEET 14



SHEET 15



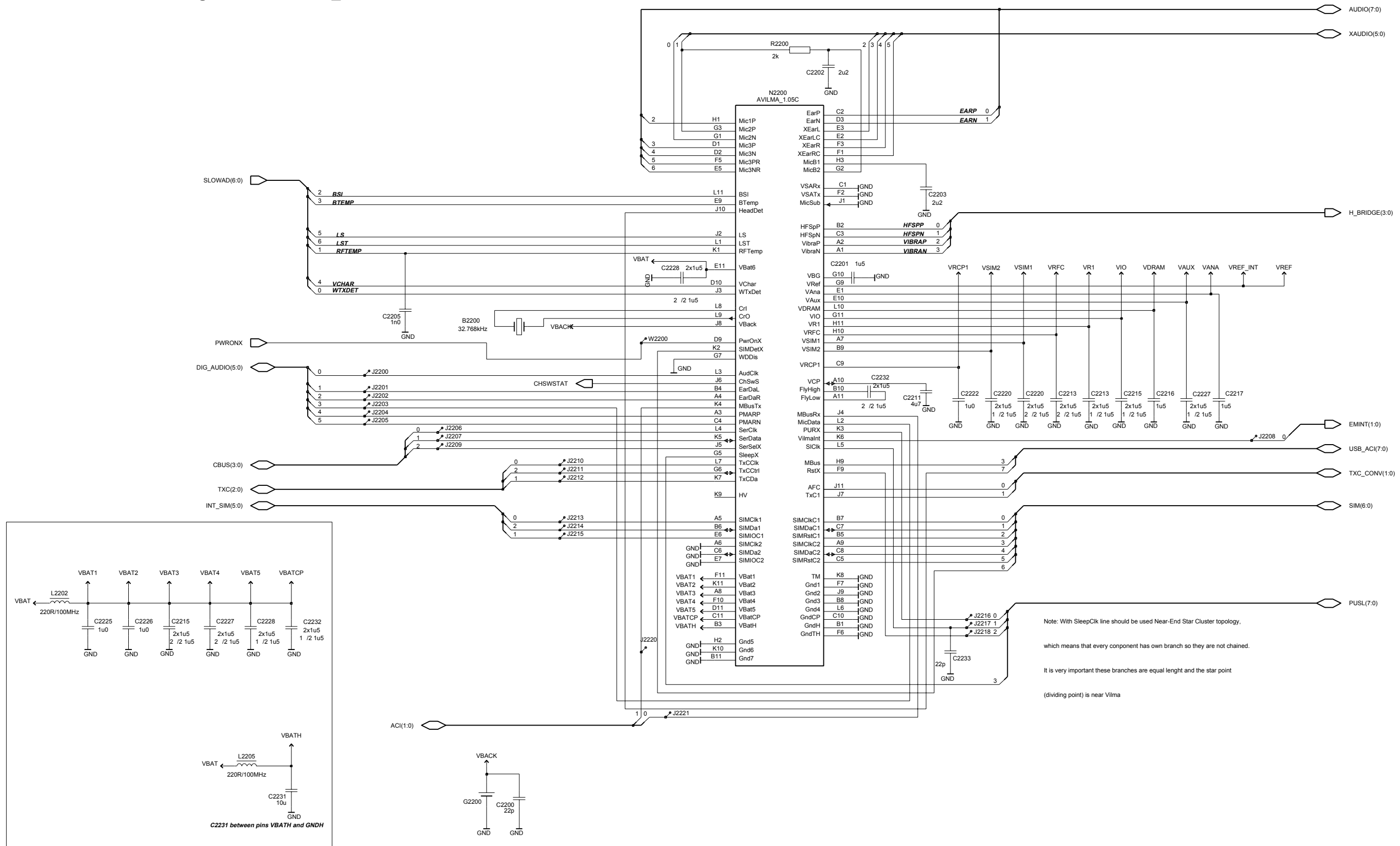
Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation

NOKIA

Name POWER TOP LEVEL

VILMA

Use together with nokia_av-sheet



Note: With SleepCik line should be used Near-End Star Cluster topology,

which means that every component has own branch so they are not chained.

It is very important these branches are equal lenght and the star point

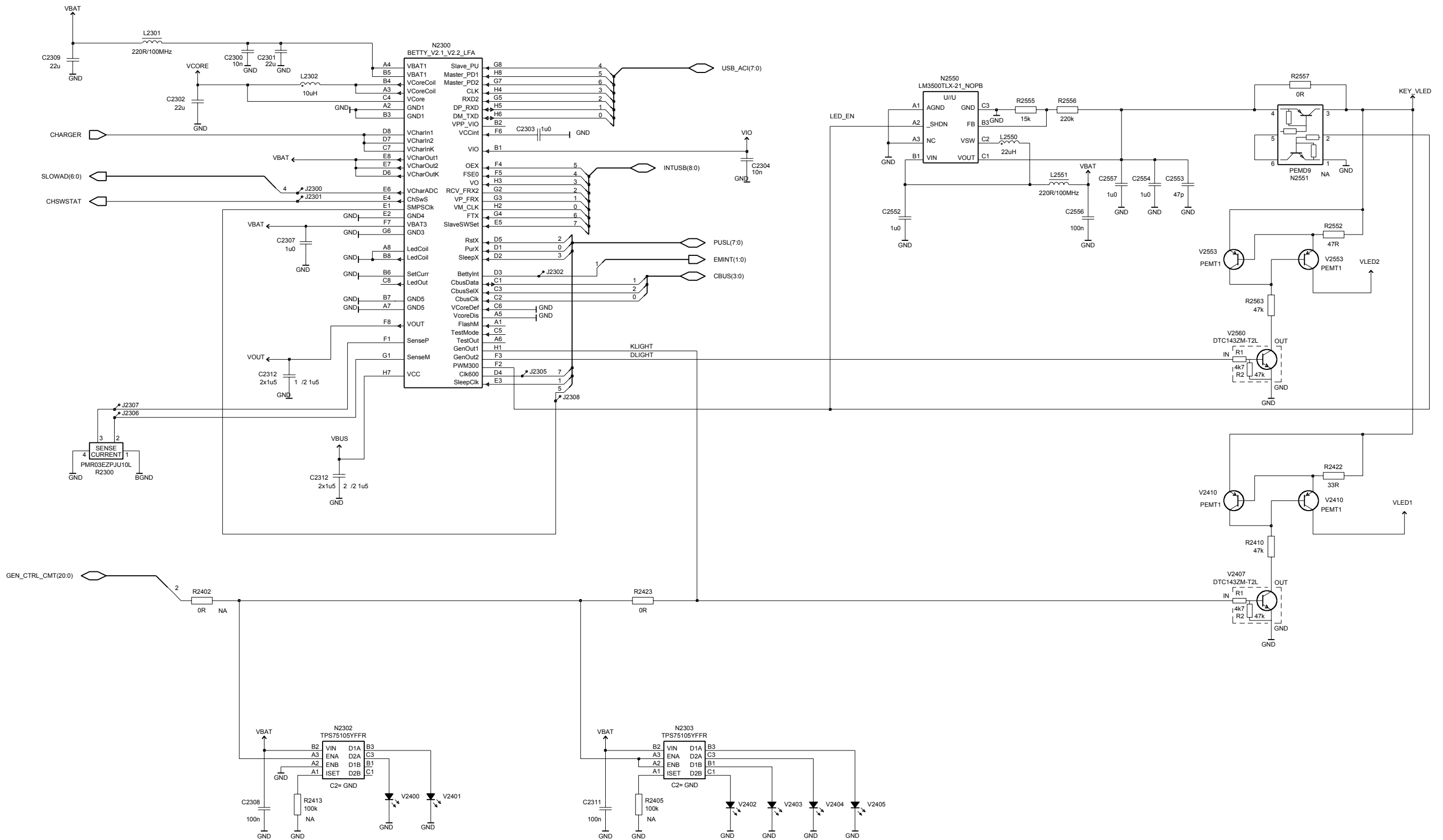
(dividing point) is near Vilma

Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation



Name VILMA

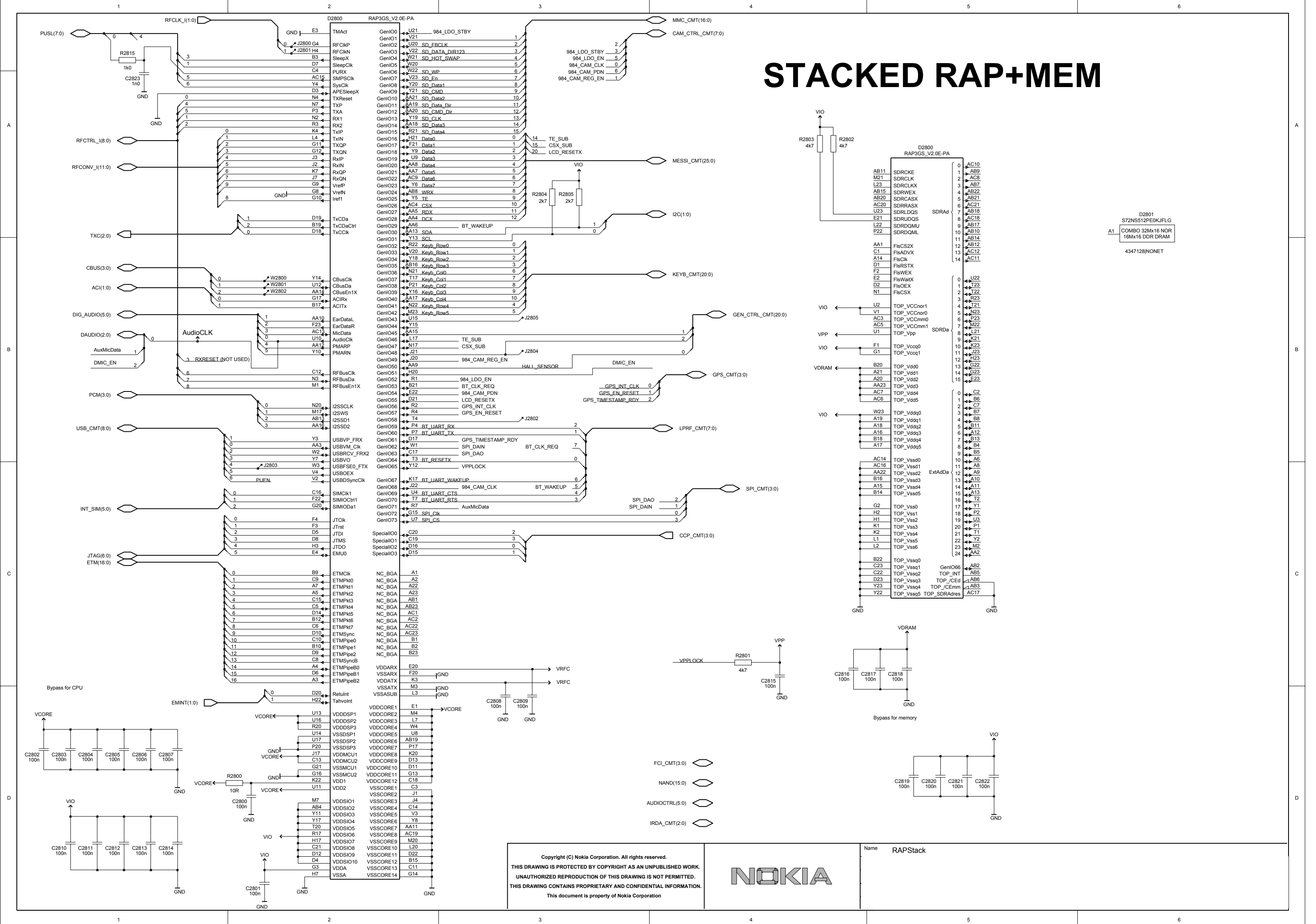
BETTY AND LED DRIVERS

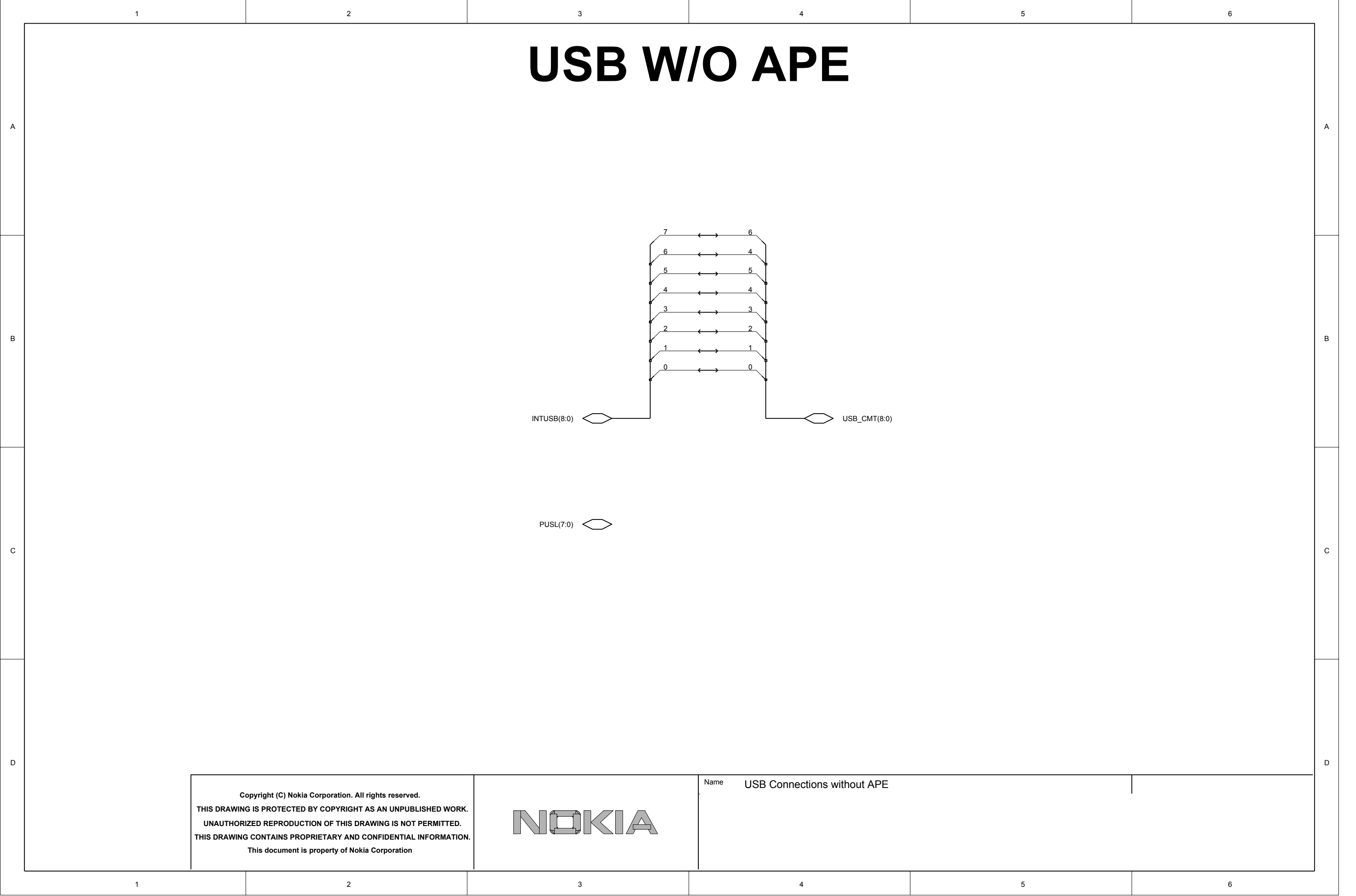


Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation

Name BETTY, LED DRIVERS

STACKED RAP+MEM

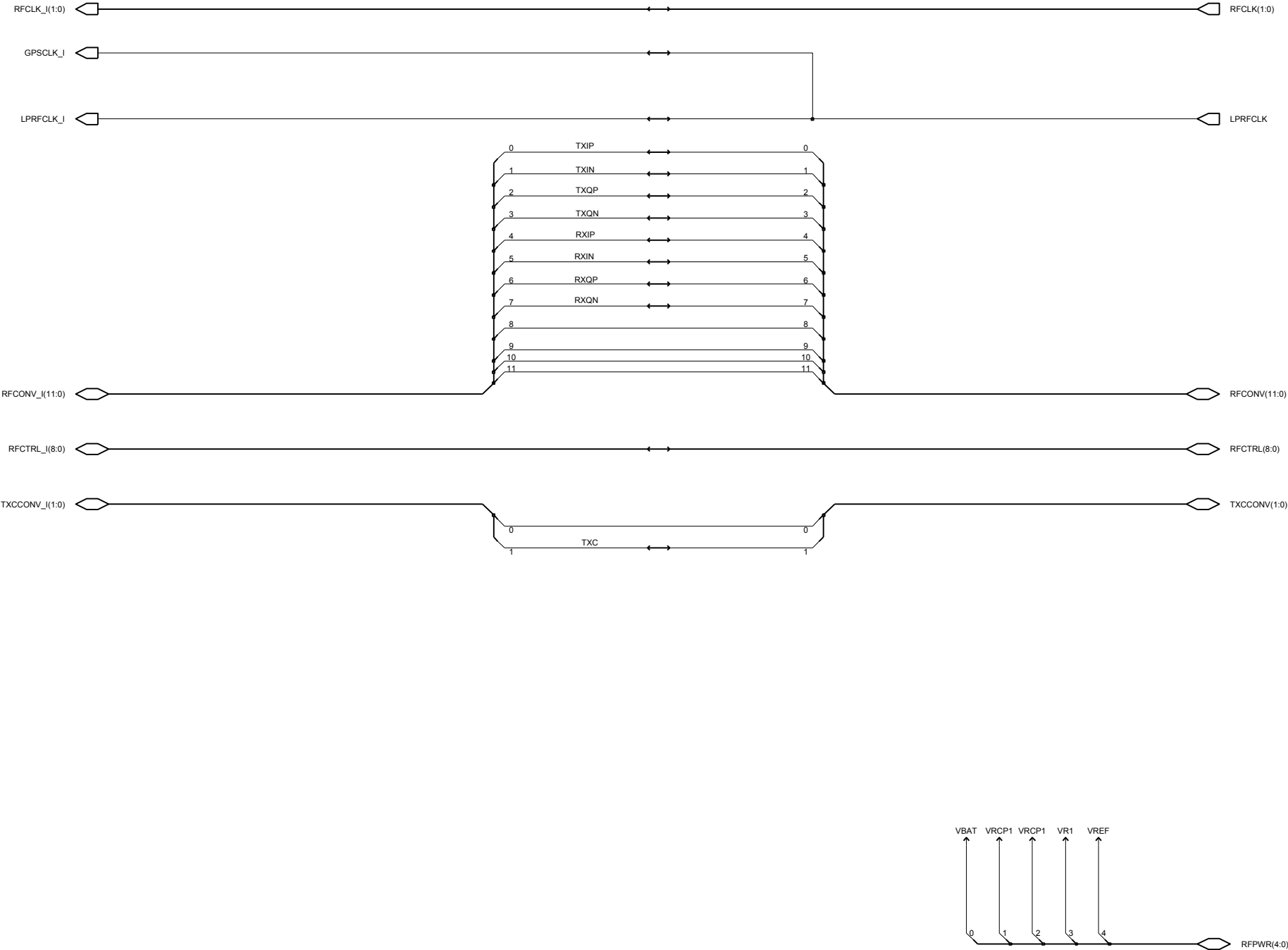




BB/RF IF

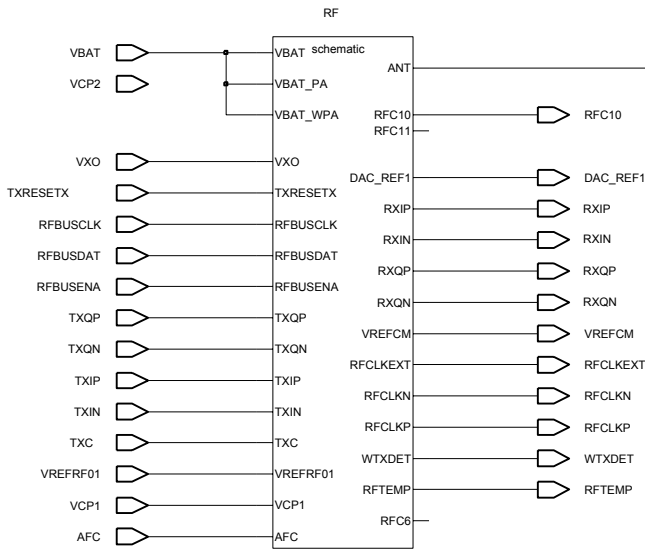
CBB5X

TOP SHEET



RF TOP LEVEL

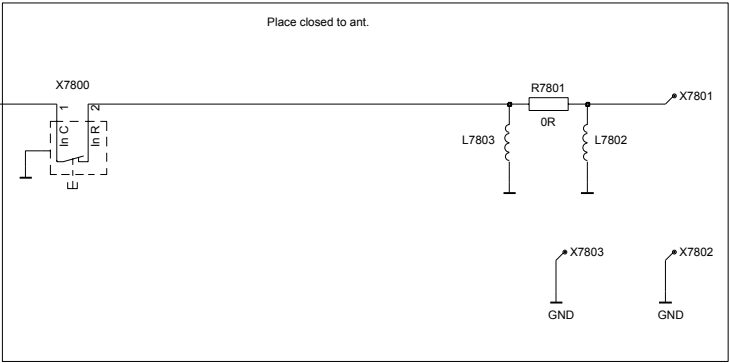
SHEET 20



7500-7599

With W3.2 BB VCP1 and VCP2 pins are connected together

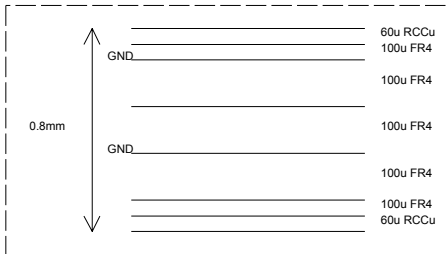
EXT_COMP



7800-7899

GREEN= 50 Ohm STRIPLINE in LAYER 4

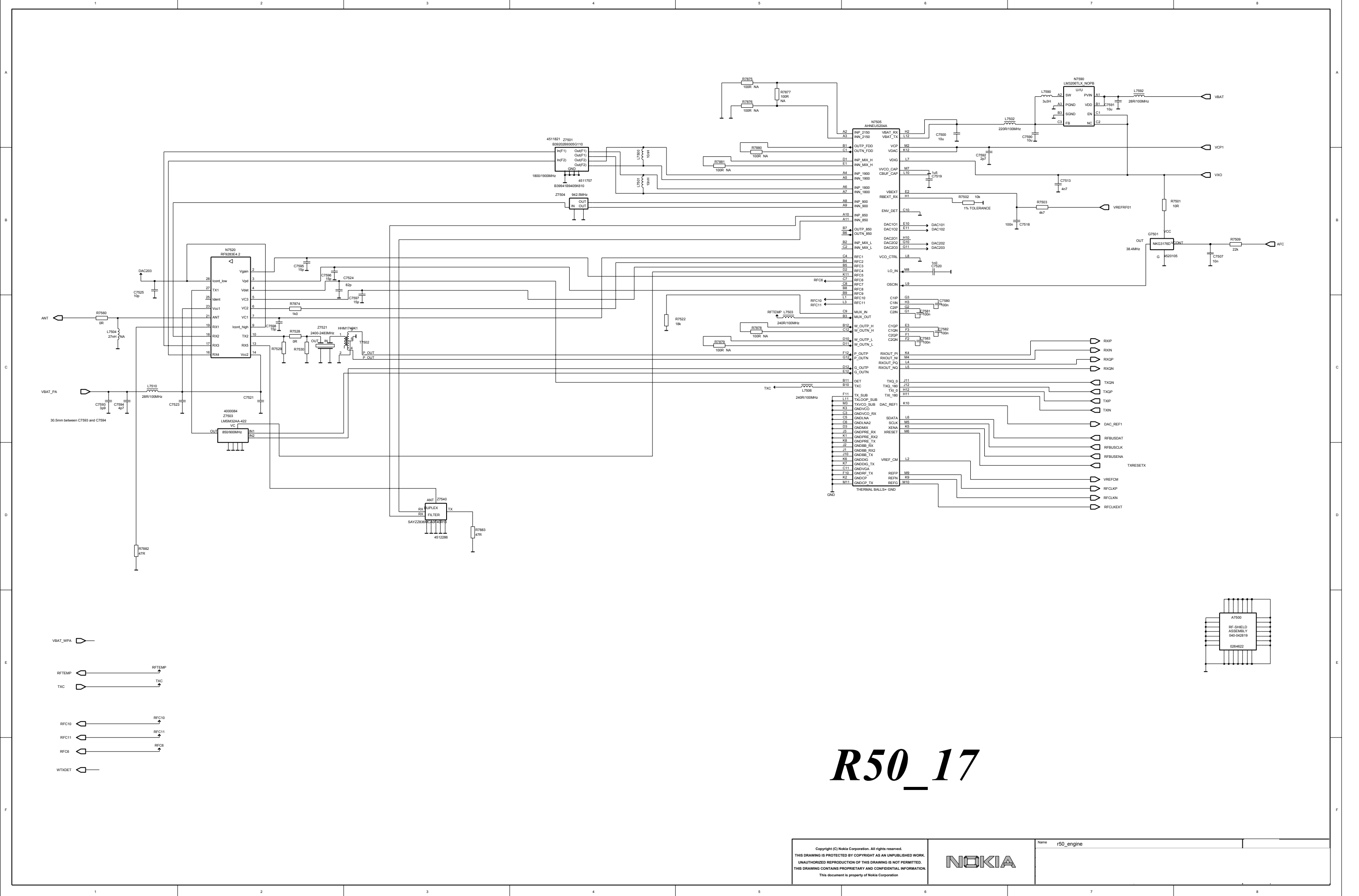
WIDTH of 50 Ohm line is 90um



Copyright (C) Nokia Corporation. All rights reserved.
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.
This document is property of Nokia Corporation

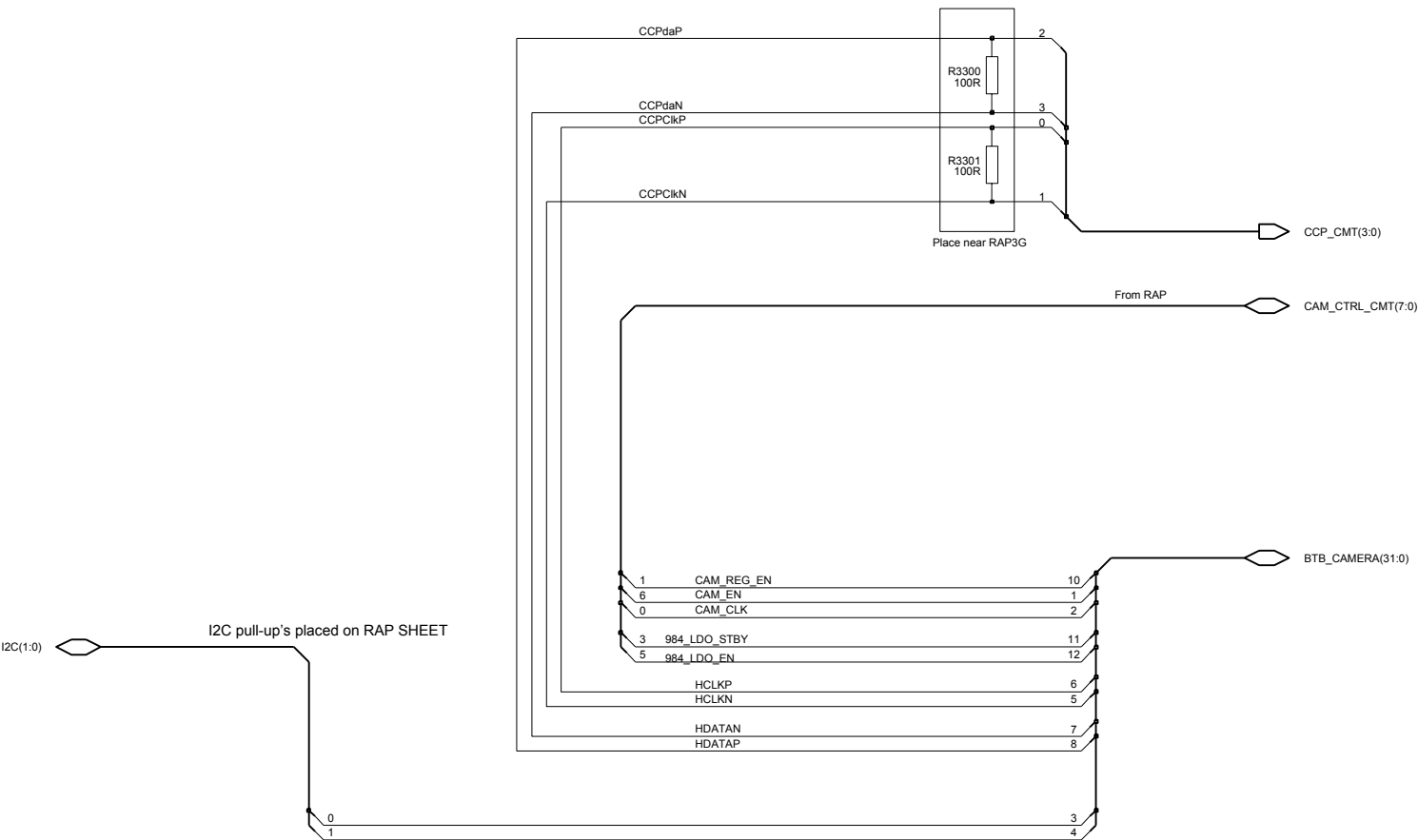
NOKIA

Name RITSA

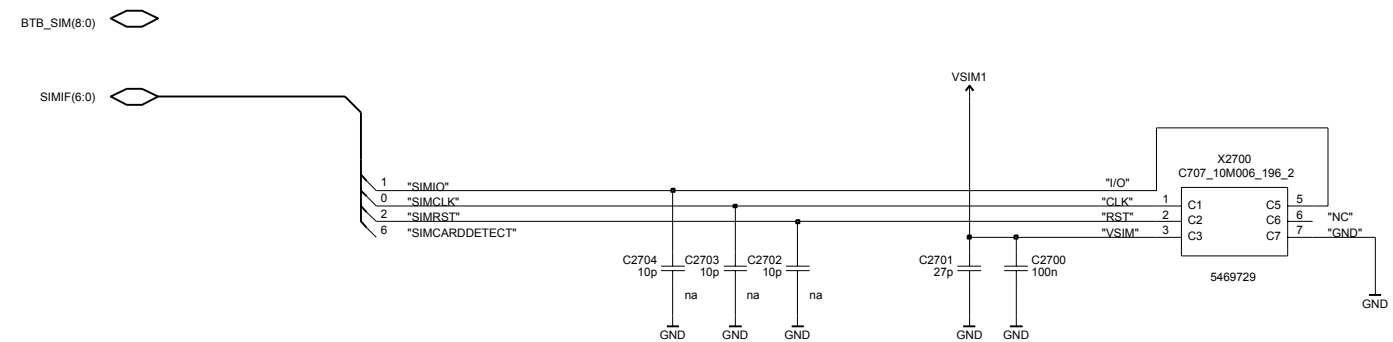


CAMERA INTERFACE

- CONN_CAMERA(19:0)
- CONN_FLASH(15:0)
- SPI_CMT(3:0)
- CCP(4:0)



SIM



Route SIM_CLK and SIM_IO signals as striplines (EMC)

Use gnd to protect other signals (ESD)

Use together with Vilma

Copyright (C) Nokia Corporation. All rights reserved.

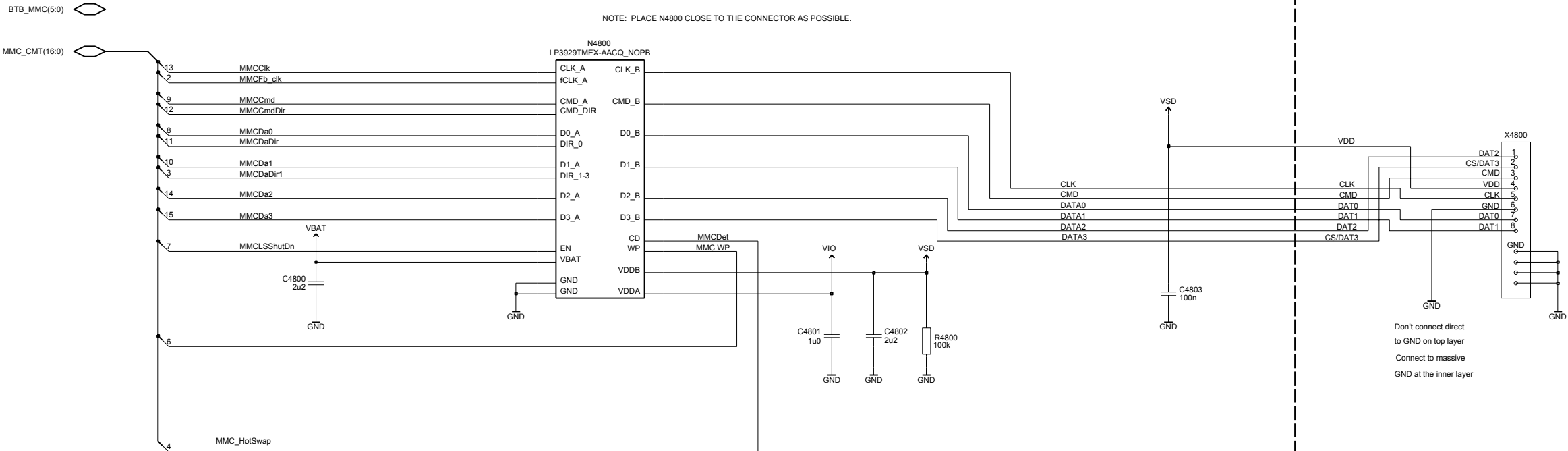
THIS DRAWING IS PROTECTED BY COPYRIGHT AS AN UNPUBLISHED WORK.
UNAUTHORIZED REPRODUCTION OF THIS DRAWING IS NOT PERMITTED.
THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.

This document is property of Nokia Corporation

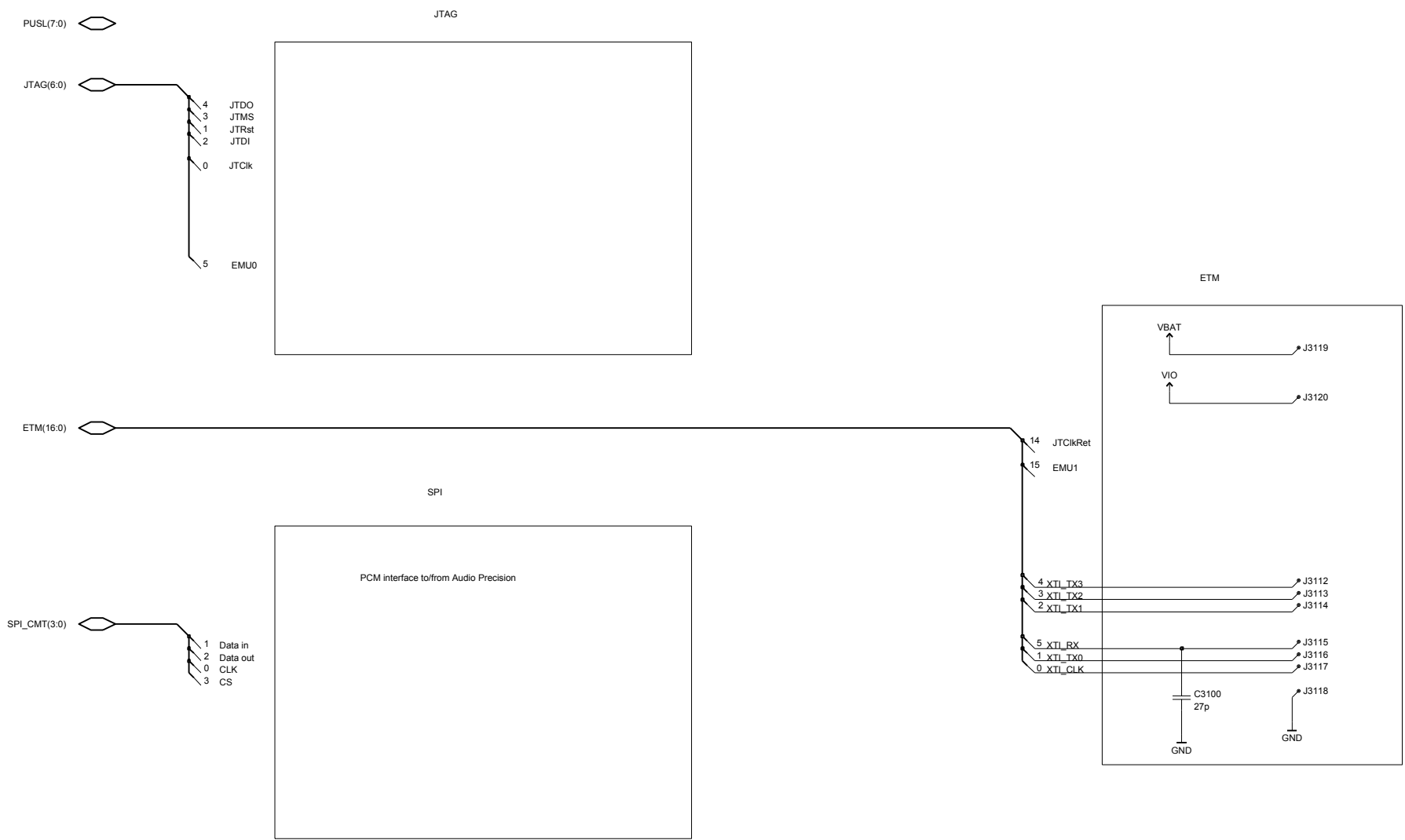


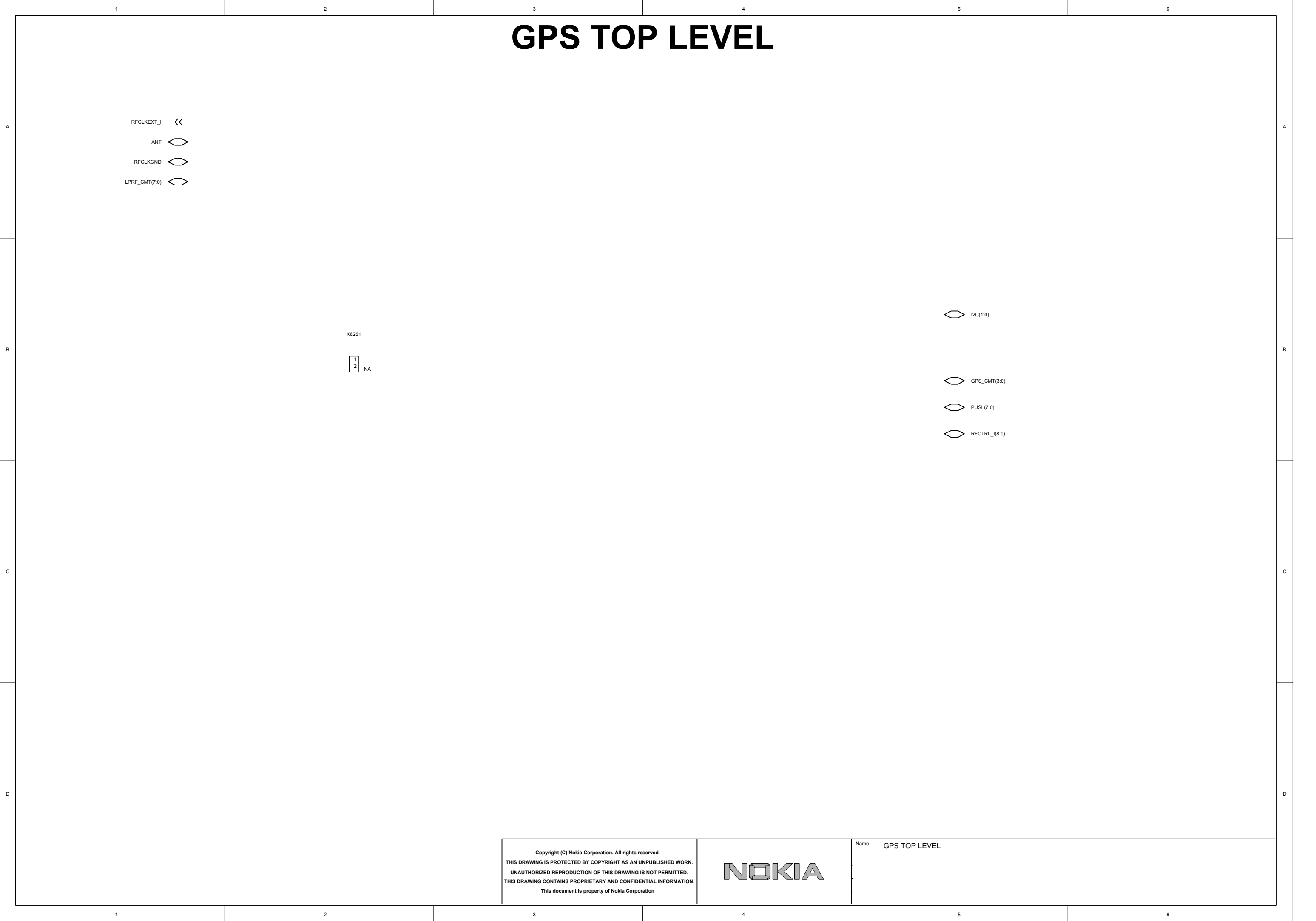
Name	SIM interface
------	---------------

MICROSD



EMULATOR PADS





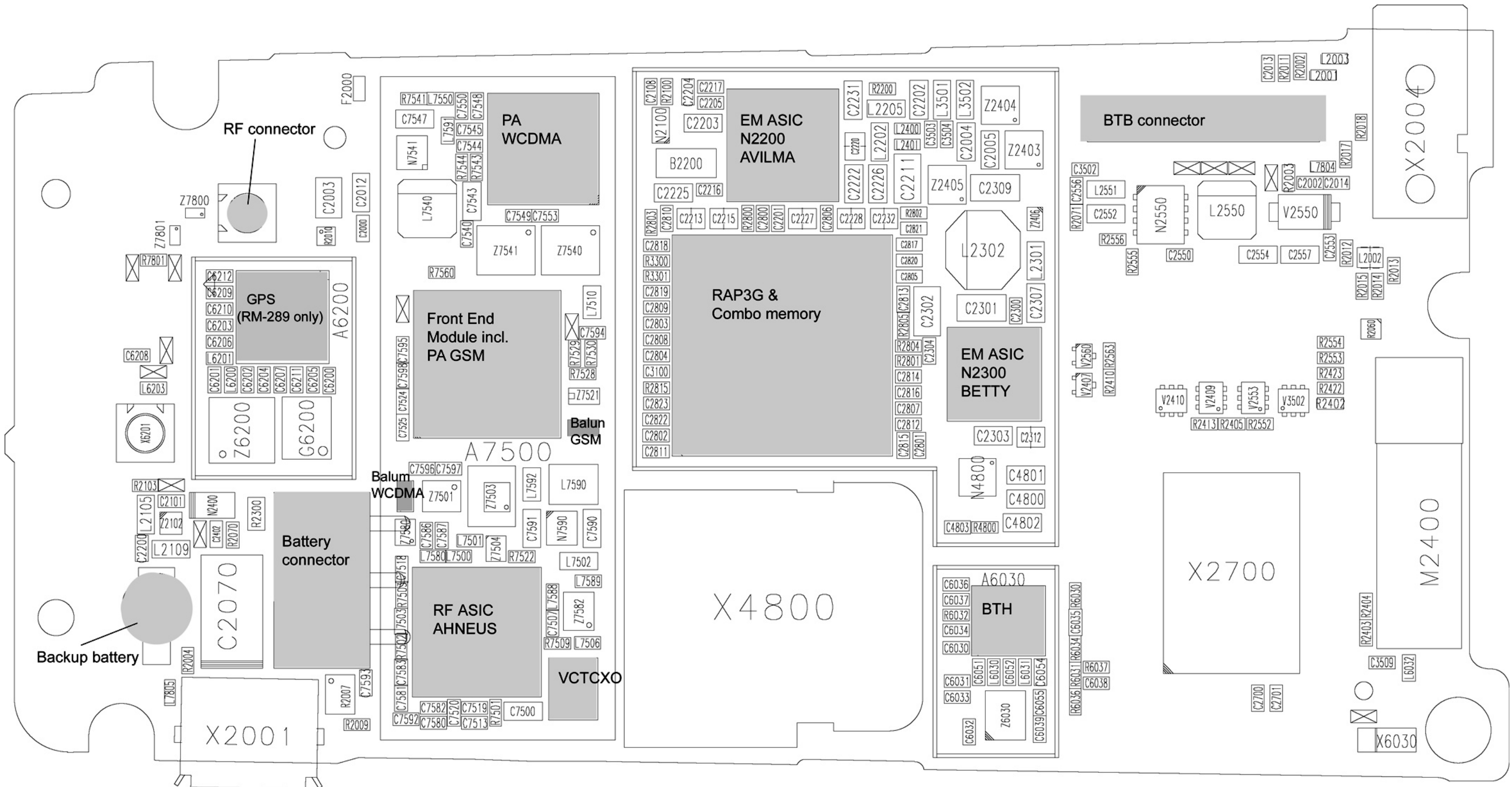
I2C(1:0)

GPS_CMT(3:0)

PUSL(7:0)

RFCTRL_I(8:0)

Key component placement top side



Key component placement bottom side

