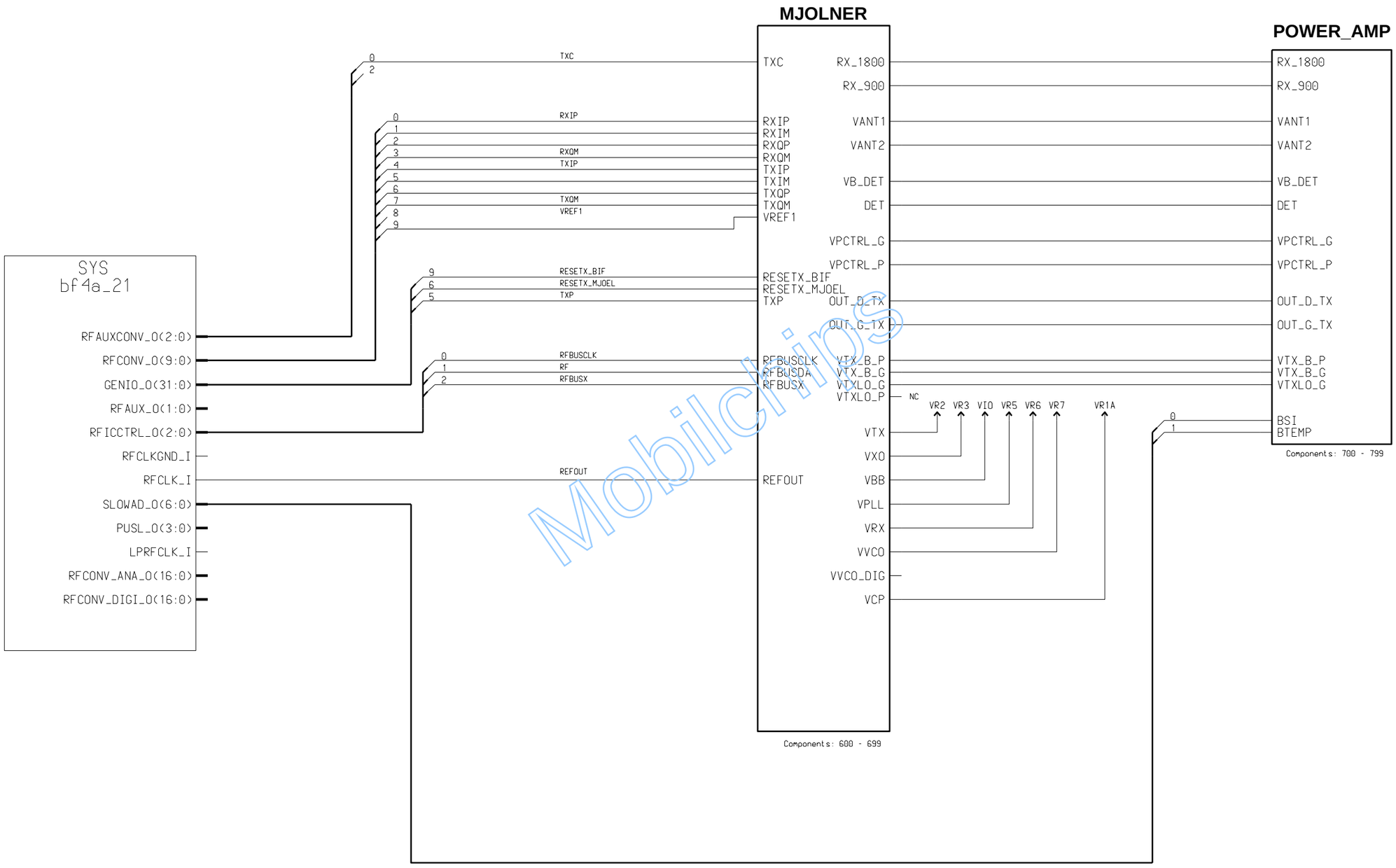
RF & BB

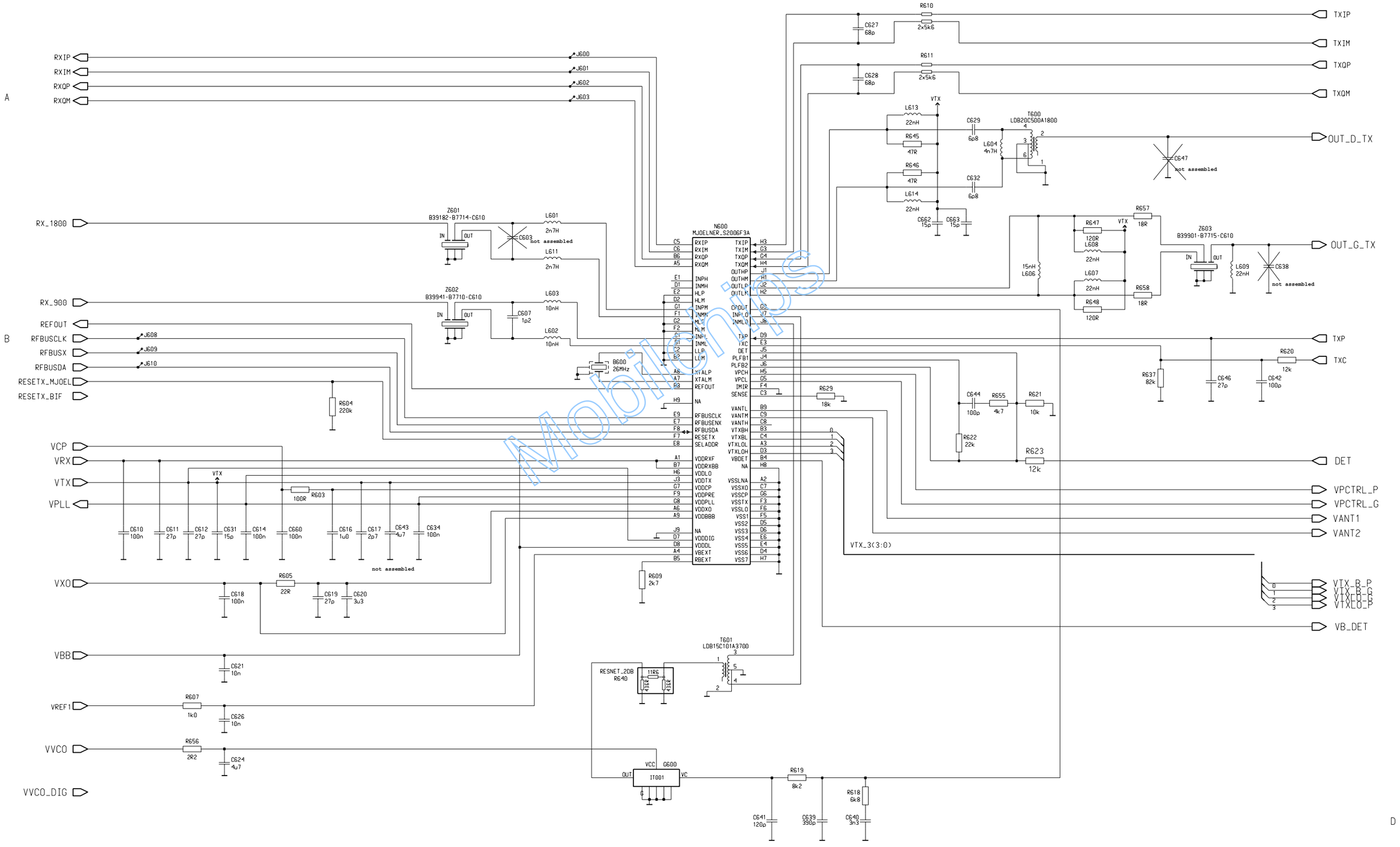


Mobilchips

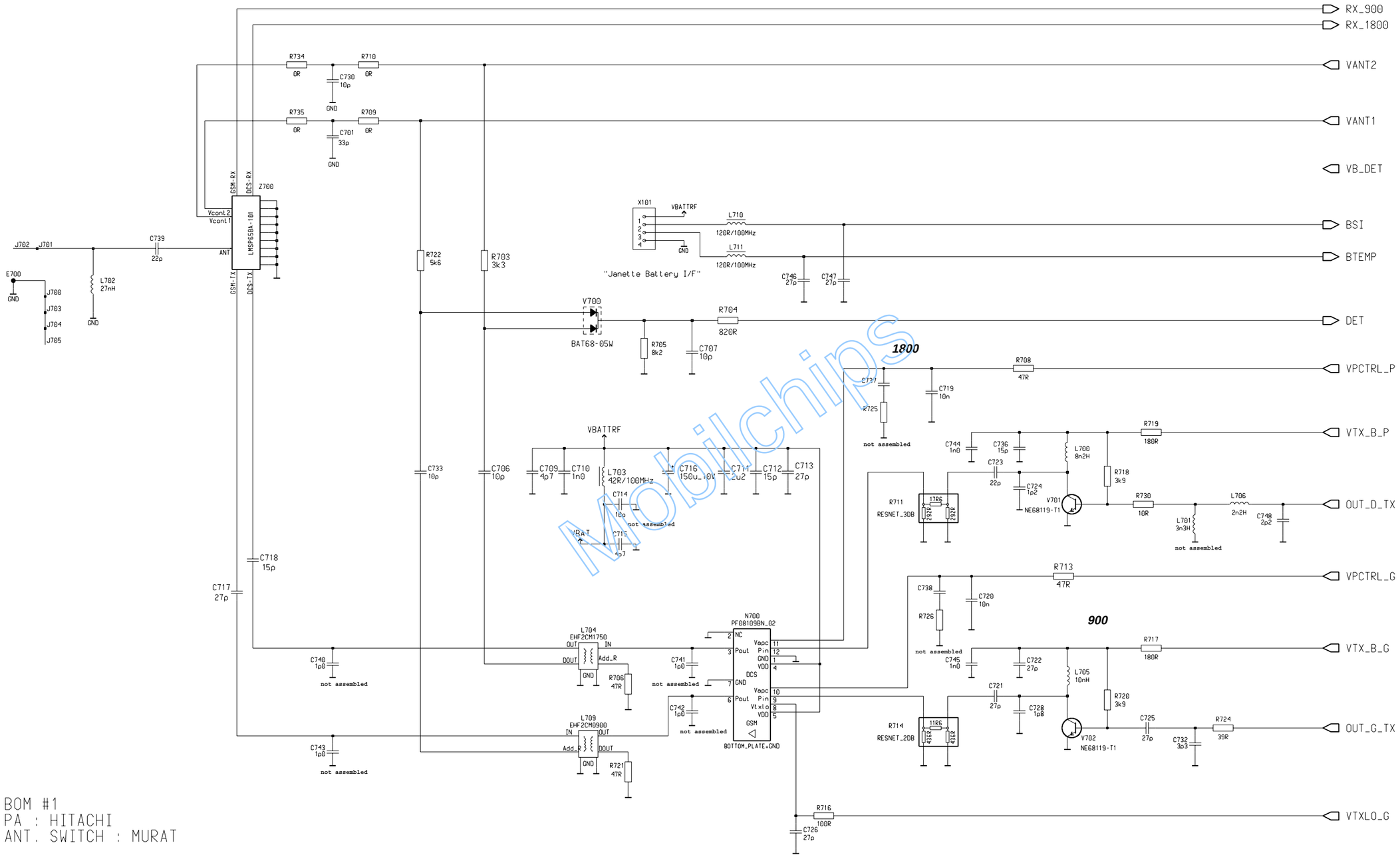
©Nokia Corporation

Schematics & manuals on www.mobilchips.com Mobilchips

Mjoelner


RXIP
RXIM
RXQP
RXQM
RX_1800
RX_900
REFOUT
RFBUSCLK
RFBUSX
RFBUSDA
RESETX_MJOEL
RESETX_BIF
VCP
VRX
VTX
VPLL
VXO
VBB
VREF1
VVCO
VVCO_DIG
TXIP
TXIM
TXQP
TXQM
OUT_D_TX
OUT_G_TX
TXP
TXC
DET
VPCTRL_P
VPCTRL_G
VANT1
VANT2
VTX_B_P
VTX_B_G
VTXLO_G
VTXLO_P
VB_DET
N600
MJOELNER_S2006F3A
Z601
B39182-B7714-C610
Z602
B39941-B7710-C610
Z603
B39901-B7715-C610
T600
LDB20C500A1800
T601
LDB15C101A3700
RESNET_2DB
R640
not assembled
VTX_3(3:0)
Mobilenips

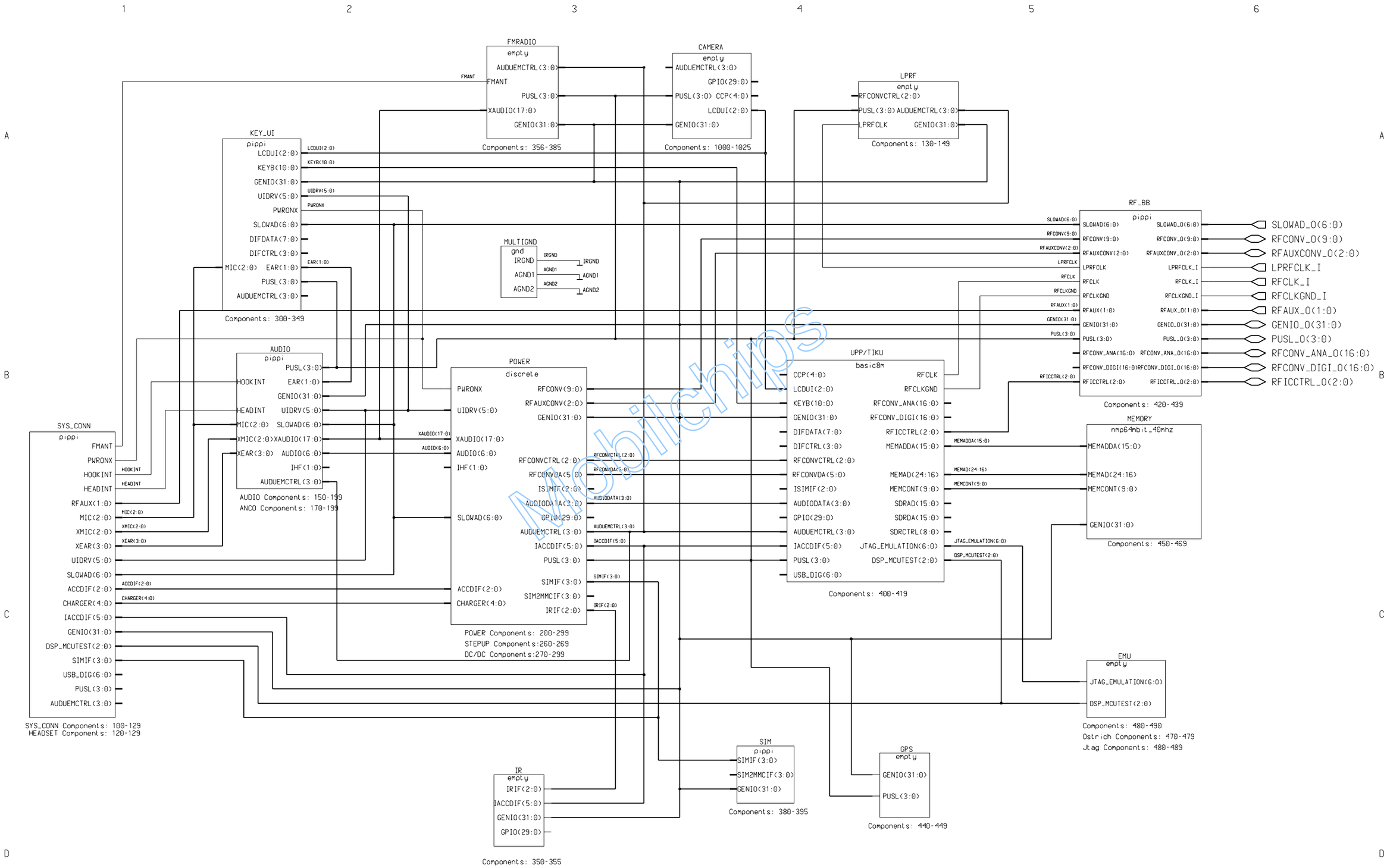
Power Amplifier



BOM #1
PA : HITACHI
ANT. SWITCH : MURAT

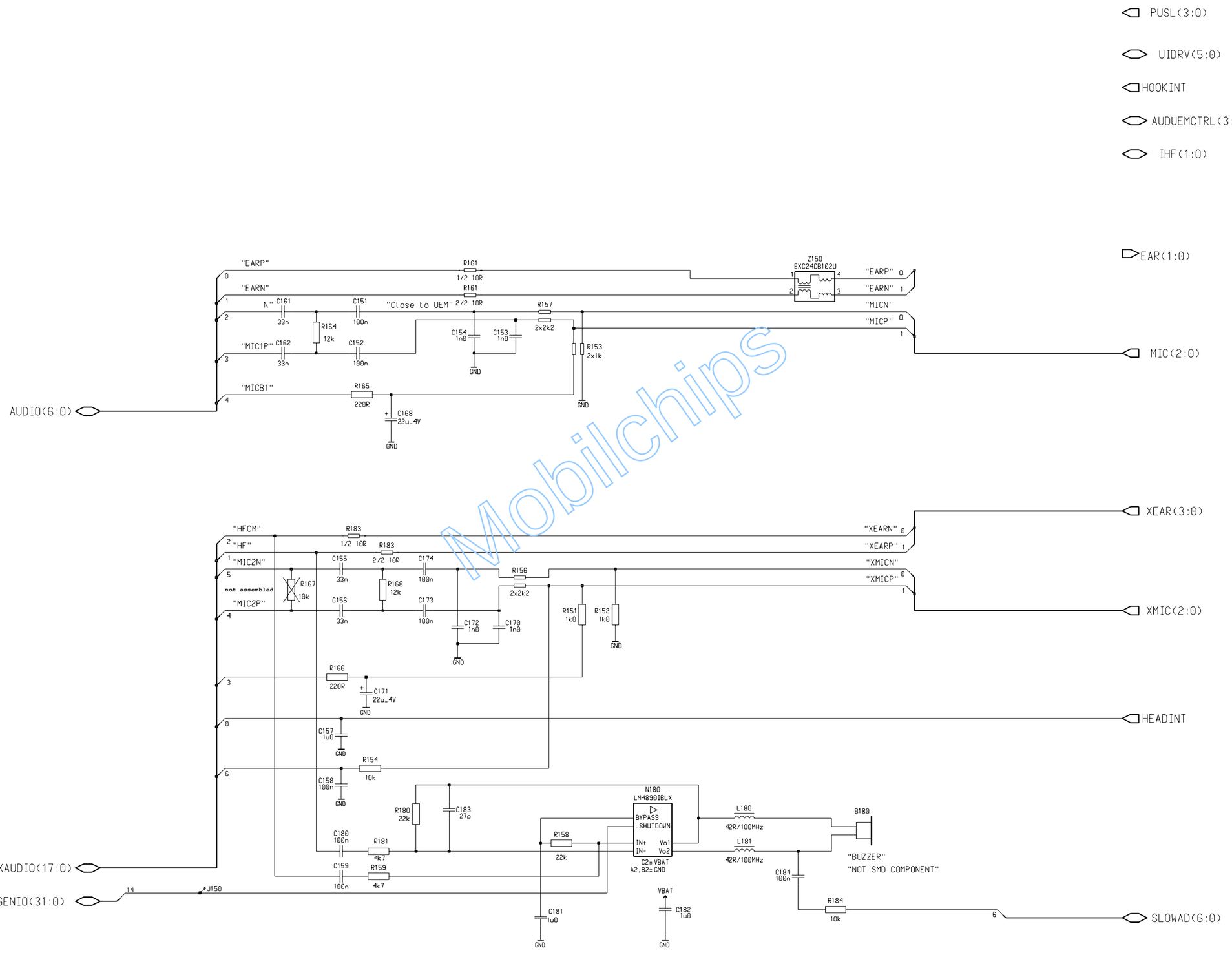
Mobilechips

System



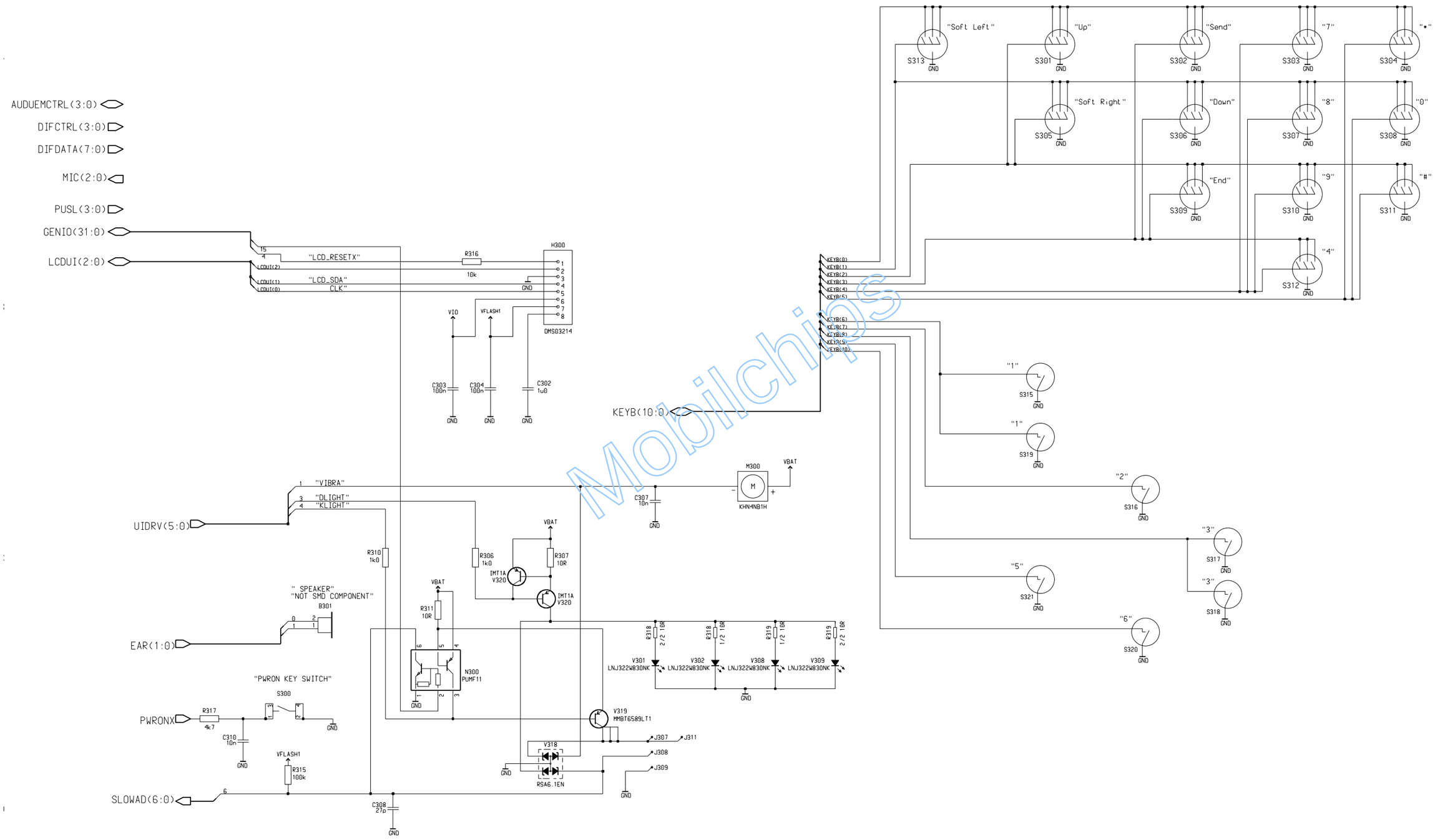
Mobile Schematics

Audio Interface



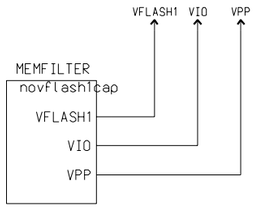
Mobilchips

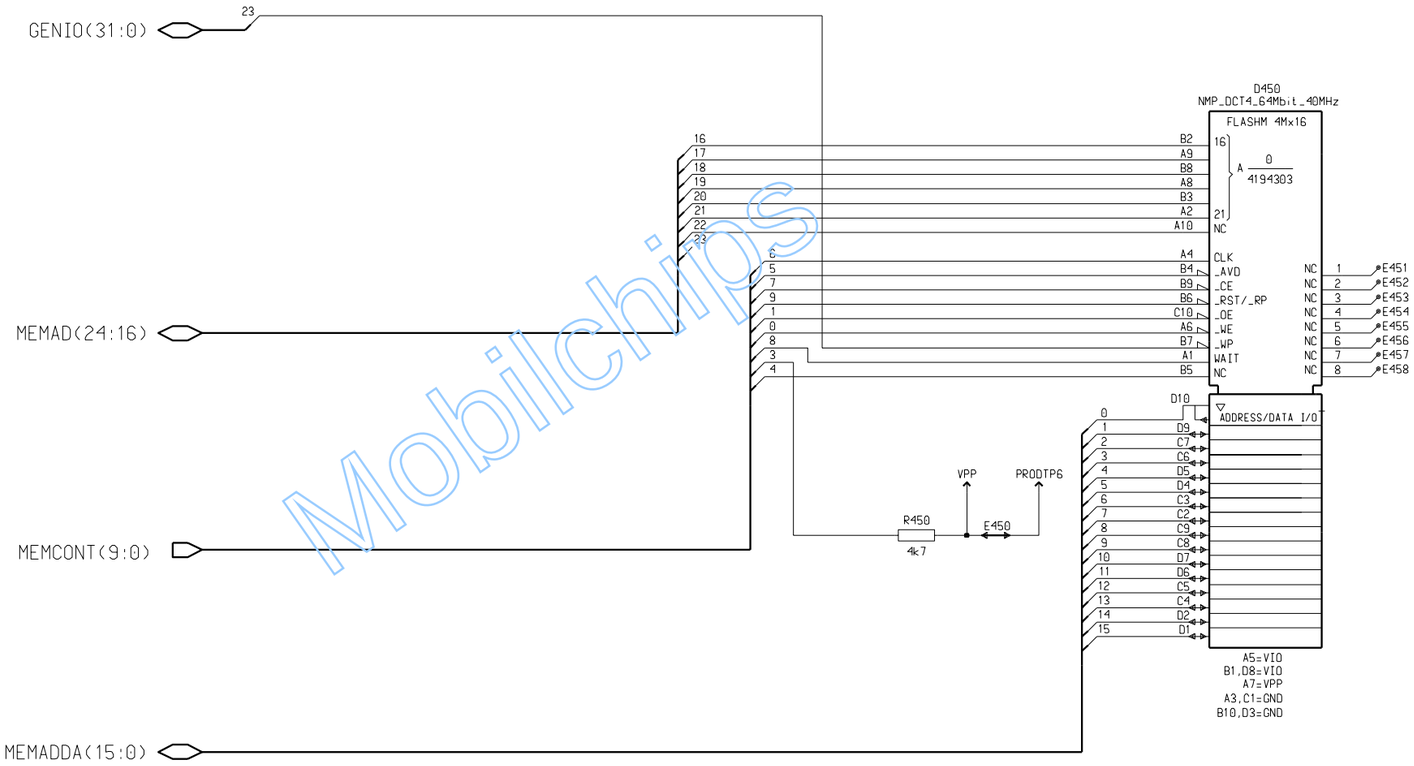
Key User Interface



Mobilchips

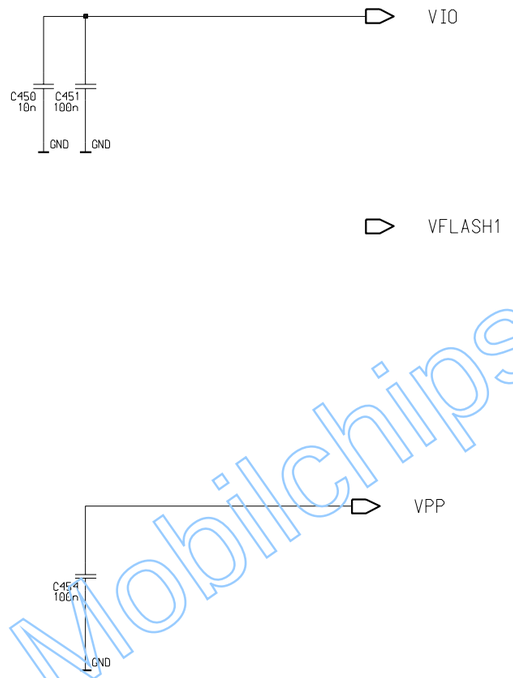
Flash Memory





Mobilchips

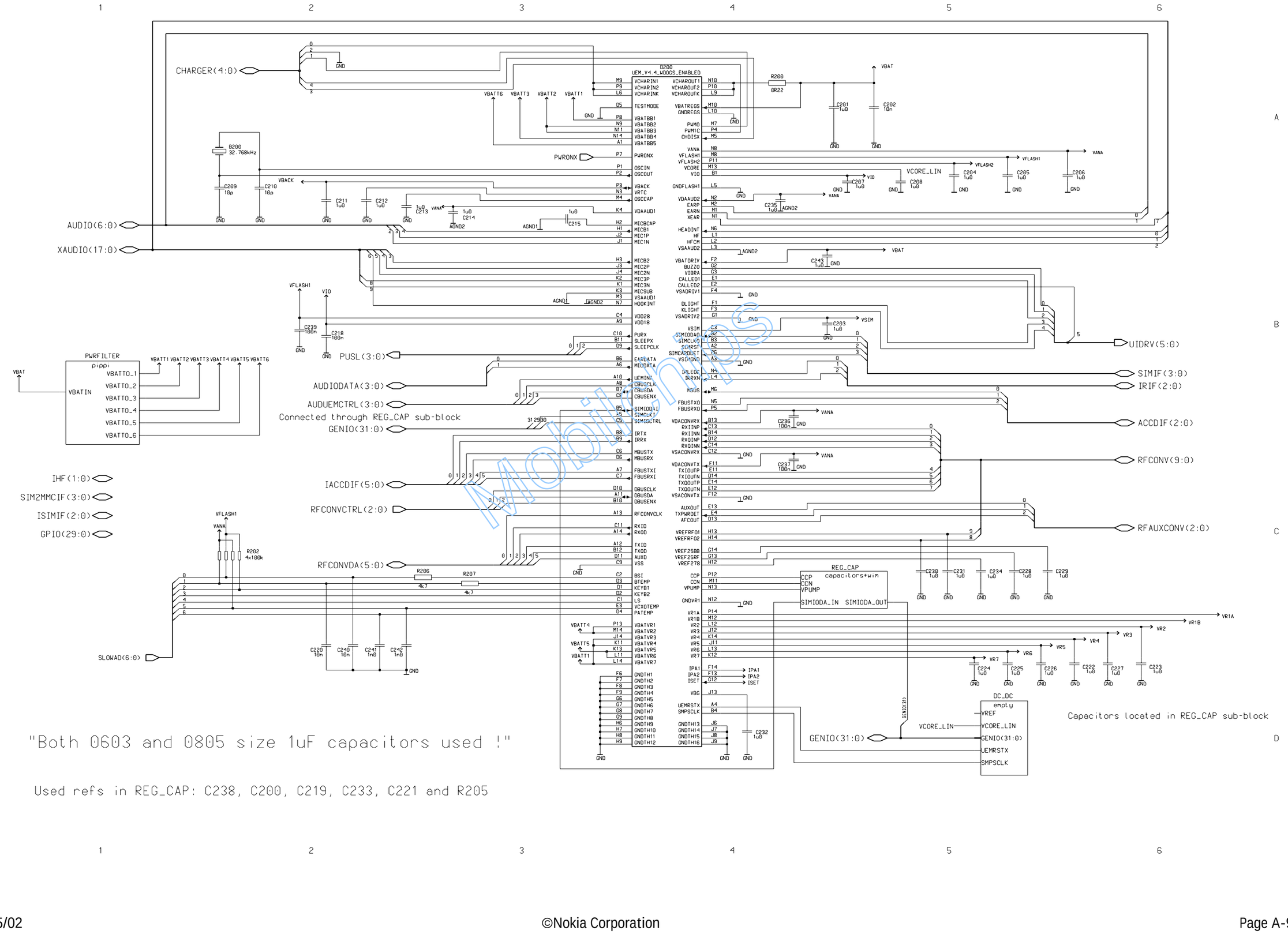
Memory filter



Mobilchips

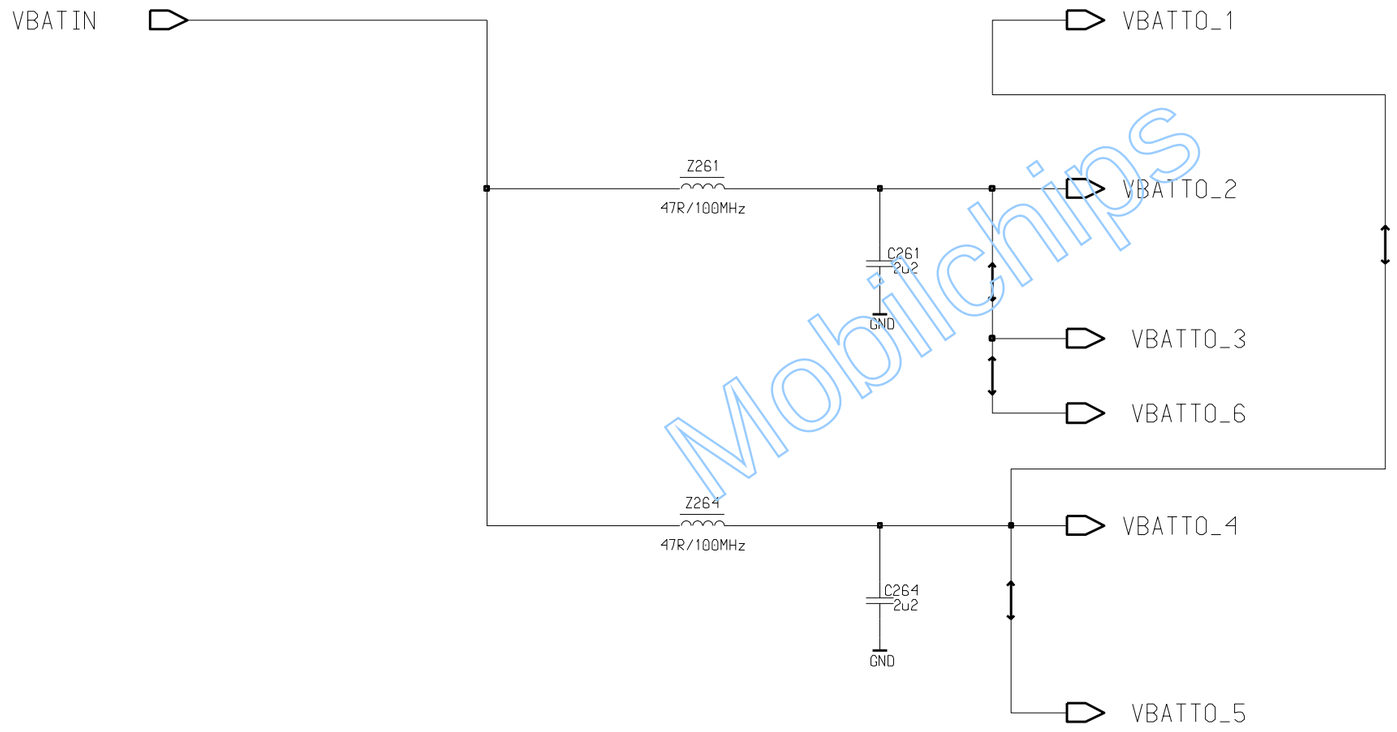
©Nokia Corporation

System - Discrete Power Mangement



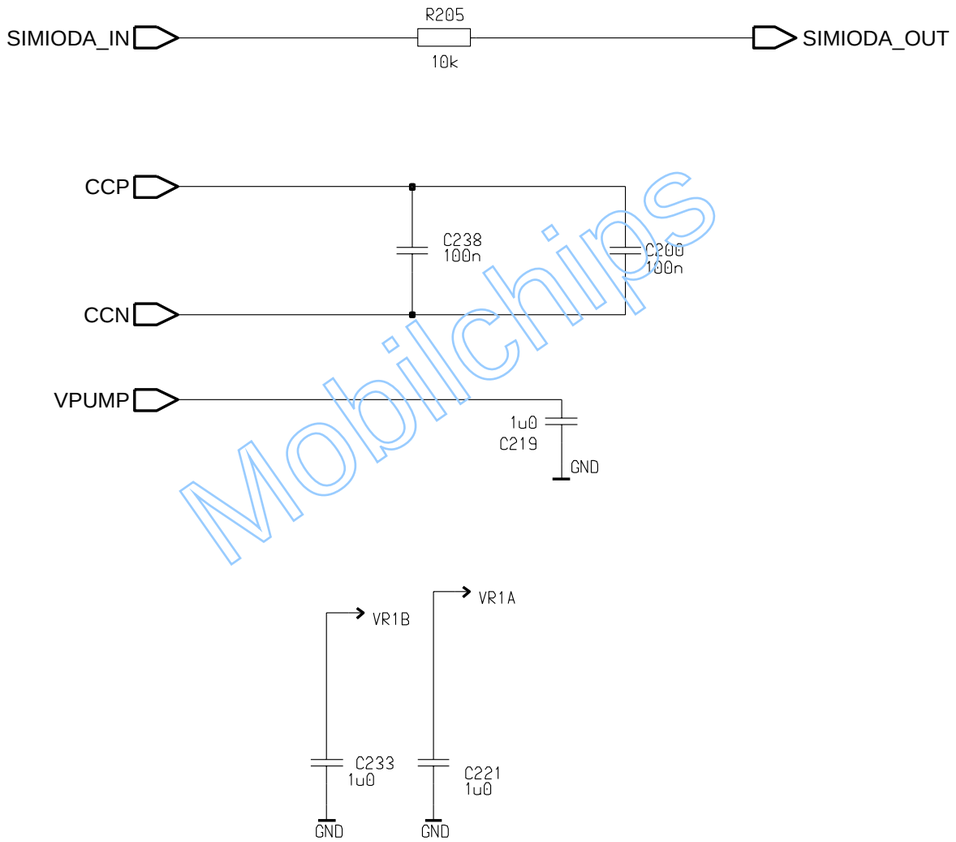
Nokia Confidential

UEM Power filter



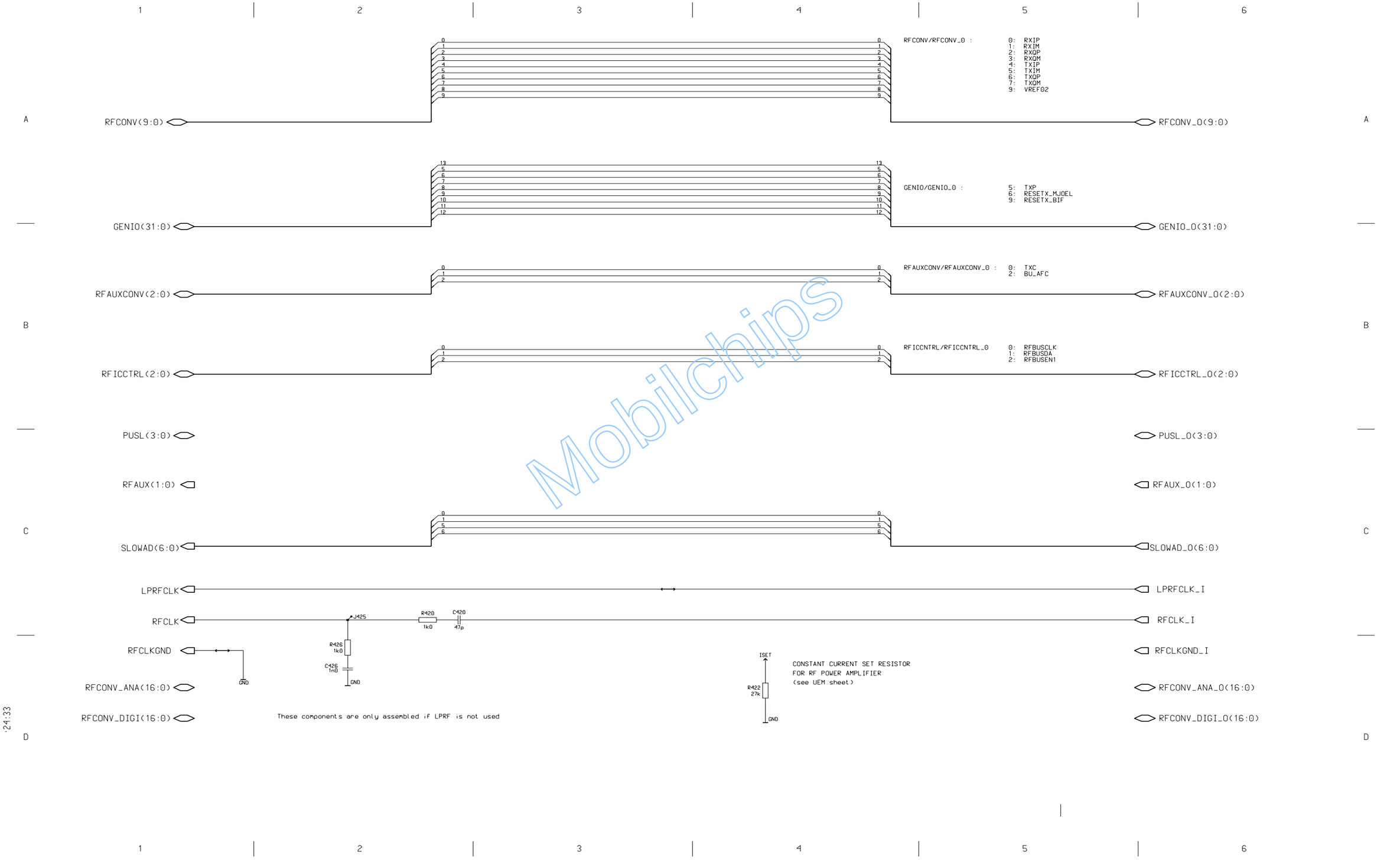
Mobilchips

Charge Pump Capacitors



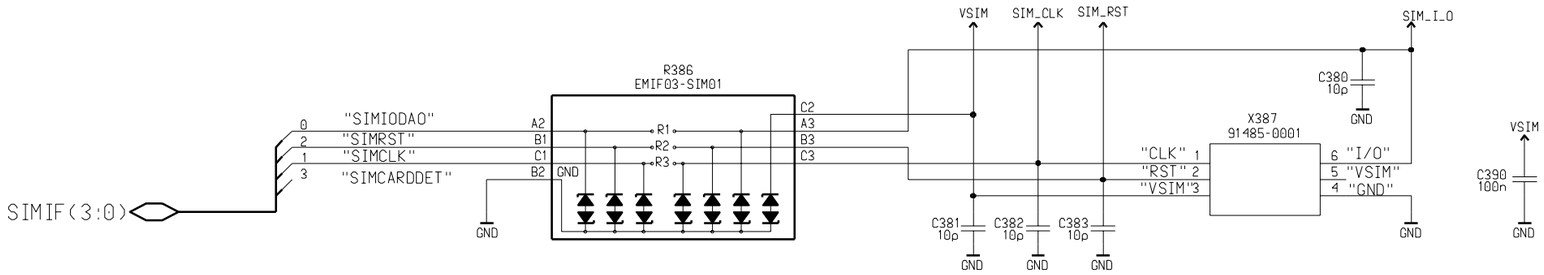
MobileChips

RF - BB Interface



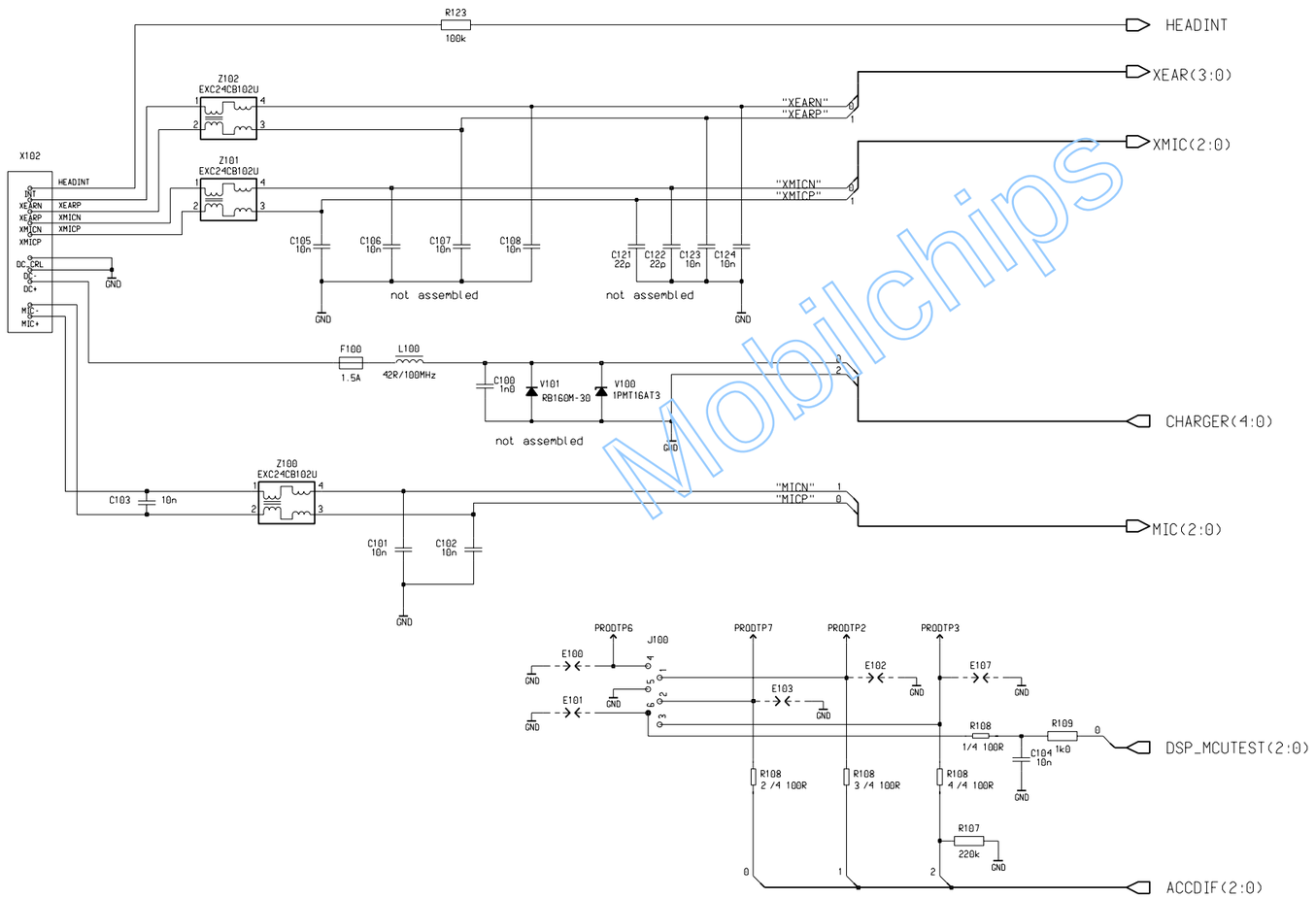
Mobilchips

SIM Reader



Mobilchips

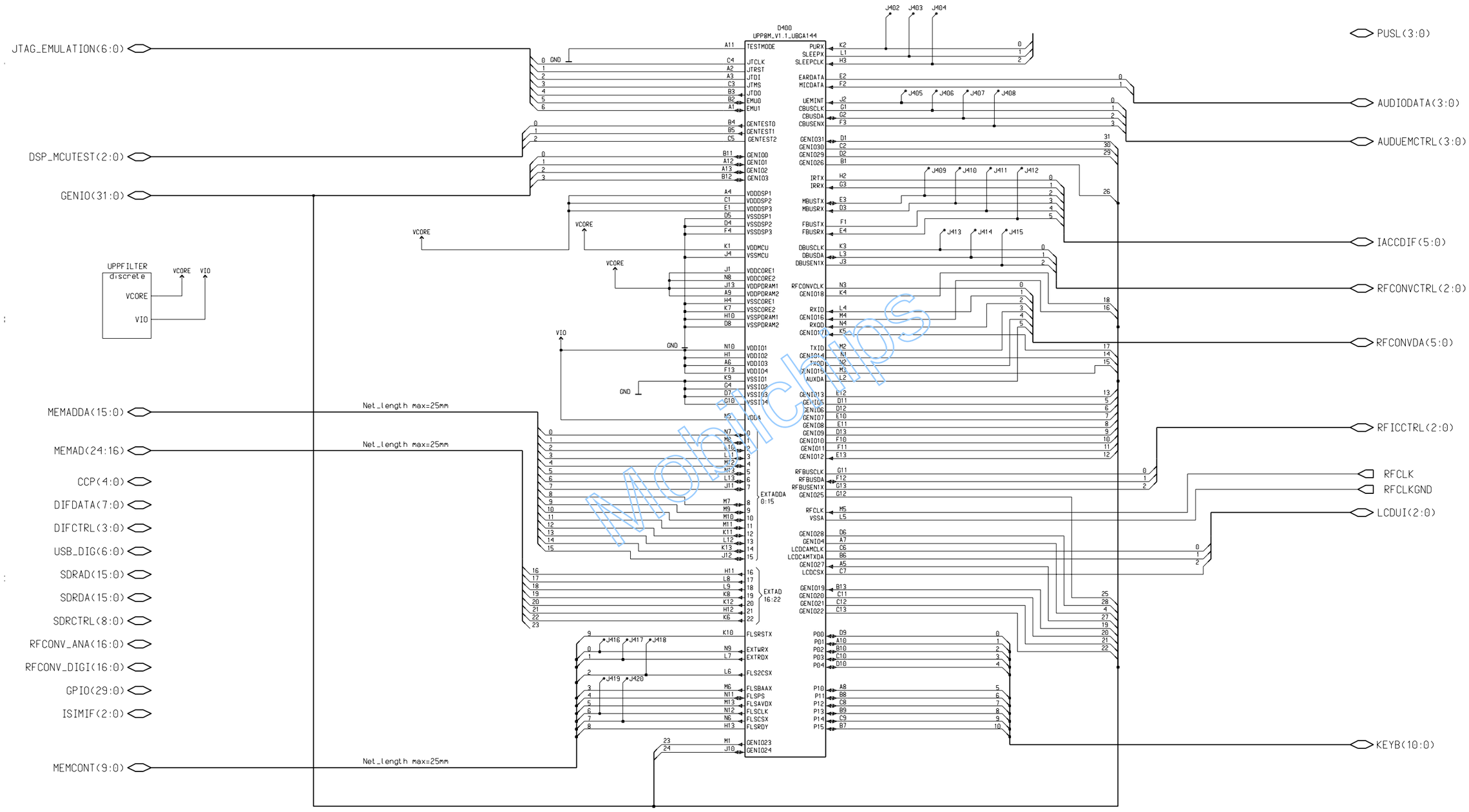
System Connector



UIDRV(5:0)
IACCDIF(5:0)
RFAUX(1:0)
PWRONX
SIMIF(3:0)
HOOKINT
GENIO(31:0)
FMANT
SLOWAD(6:0)
USB_DIG(6:0)
PUSL(3:0)
AUDUEMCTRL(3:0)

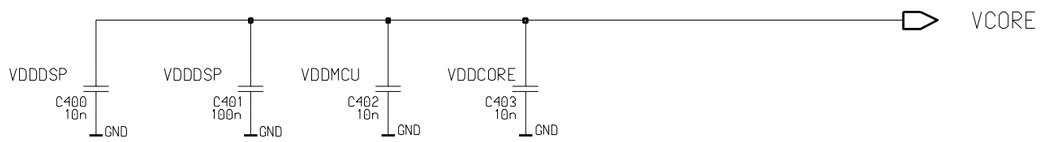
Mobilchips

UPP

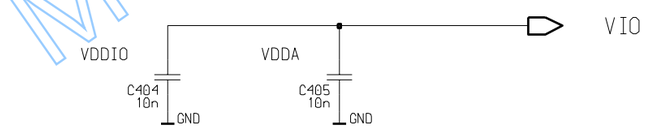


Nokia Confidential

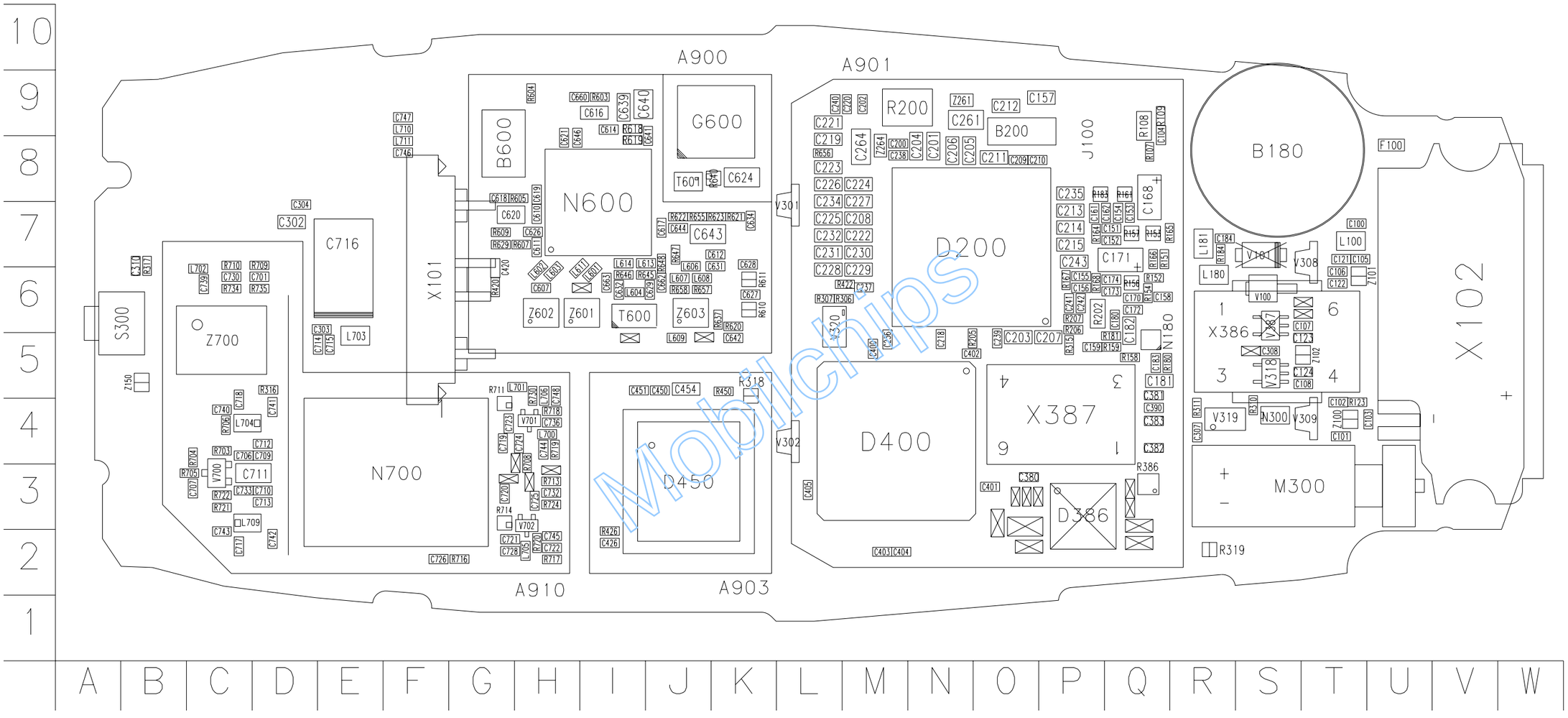
Discrete decoupling capacitors



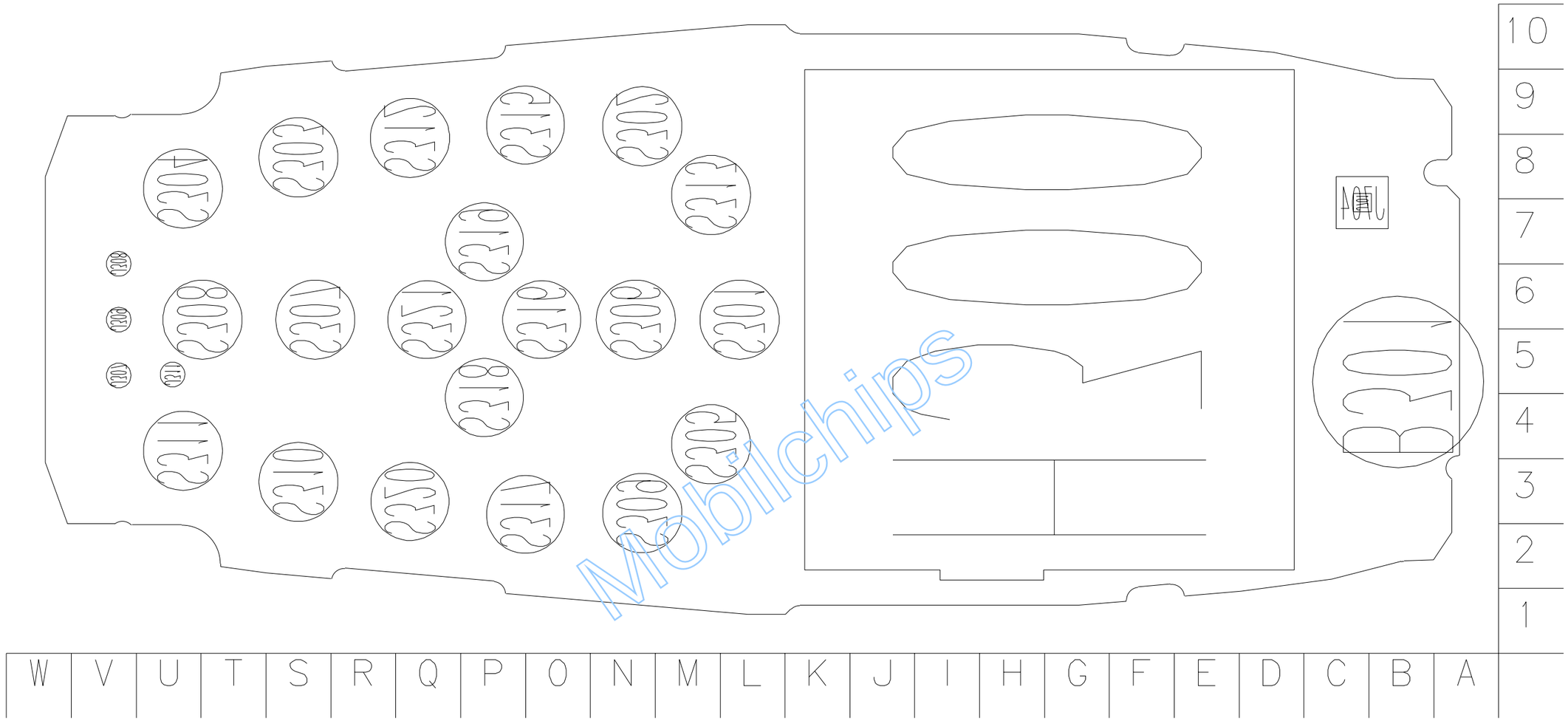
Mobilchips



Layout Diagram of BF4A - Top


A900
A901
A910
A903
B600
G600
N600
T600
Z602
Z601
Z603
X101
C716
S300
Z700
L703
N700
D450
D200
D400
X387
D386
B200
J100
C261
C212
C157
C168
C171
B180
F100
X102
V301
V302
V320
N180
X386
V318
V319
N300
V309
M300
V100
V101
V308
V387
L100
L180
L181
Z101
Z102
Z100
V700
V702
C711
L704
L709
L700
L701
R319
R386
C380
C401
C405
C403
C404
C426
C454
C450
C451
R450
R318
C726
R716
C728
C721
C722
C745
C717
C742
C743
C740
C741
C718
C712
C706
C709
C733
C710
C713
C722
C724
C732
C744
C748
C746
C747
C710
C711
C712
C713
C714
C715
C716
C717
C718
C719
C720
C721
C722
C723
C724
C725
C726
C728
C732
C733
C740
C741
C742
C743
C744
C745
C746
C747
C748
R316
R317
R703
R704
R705
R706
R707
R708
R709
R710
R711
R712
R713
R714
R717
R718
R719
R720
R721
R722
R723
R724
R730
R734
R735
L700
L701
L702
L703
L704
L705
L706
L707
L709
V700
V701
V702
Z150
C304
C302
C303
C310
C739
C620
C626
C609
C607
C611
C610
C619
C618
R605
R609
R607
R629
C420
R420
C617
C644
C643
C634
C612
C631
C628
C627
C611
R610
R611
R620
R627
C642
C609
C606
C607
C608
C602
C603
C604
C605
C606
C607
C608
C609
C610
C611
C612
C613
C614
C615
C616
C617
C618
C619
C620
C621
C622
C623
C624
C626
C627
C628
C629
C631
C632
C634
C637
C639
C640
C641
C642
C643
C644
C646
C647
C648
C660
C663
R601
R602
R603
R604
R605
R606
R607
R608
R609
R610
R611
R612
R613
R614
R615
R616
R617
R618
R619
R620
R621
R622
R623
R627
R629
R641
R642
R643
R644
R645
R646
R647
R648
R655
R658
L601
L602
L603
L604
L606
L607
L608
L609
L610
L611
L613
L614
T609
Z603
Z602
Z601
C200
C201
C202
C204
C205
C206
C207
C209
C210
C211
C212
C213
C214
C215
C218
C219
C221
C222
C223
C224
C225
C226
C227
C228
C229
C230
C231
C232
C234
C235
C237
C238
C239
C240
C241
C242
C243
C264
C400
C402
C436
R200
R202
R206
R207
R208
R215
R218
R219
R222
R223
R224
R225
R226
R227
R228
R229
R230
R231
R232
R233
R234
R235
R236
R237
R238
R239
R240
R241
R242
R243
R244
R245
R246
R247
R248
R249
R250
R251
R252
R253
R254
R255
R256
R257
R258
R259
R260
R261

Layout Diagram of BF4A - Bottom



Mobilchips