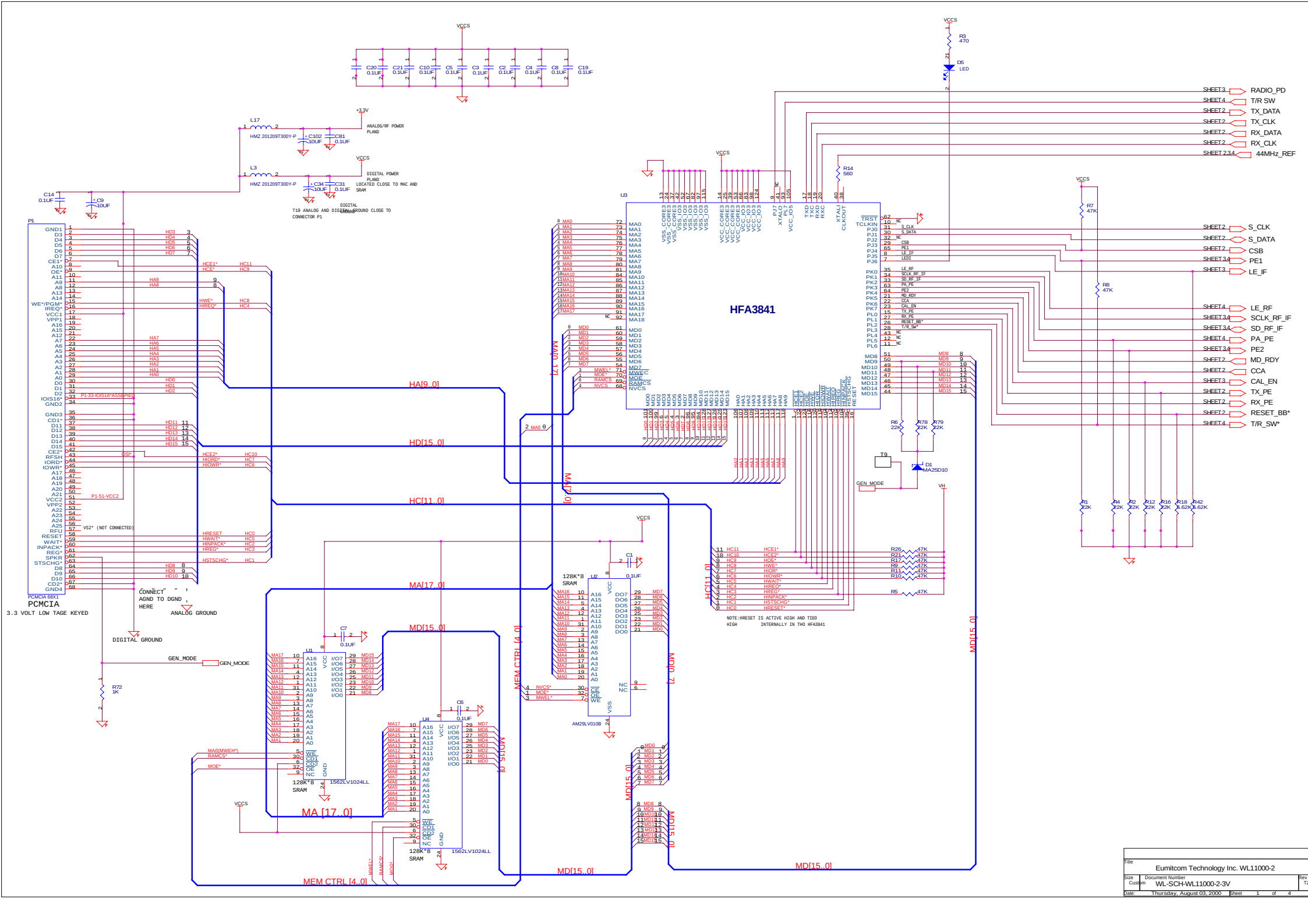
HFA3841
PCMCIA
3.3 VOLT LOW TAGE KEYED
PCMCIA 68X1
CONNECT AGND TO DGND HERE
ANALOG GROUND
DIGITAL GROUND
ANALOG/RF POWER PLAND
DIGITAL POWER PLAND
LOCATED CLOSE TO MAC AND SRAM
DIGITAL GROUND CLOSE TO CONNECTOR P1
HMZ 201209T300Y-P
128K*8 SRAM
1562LV1024LL
AM29LV010B
HA[9..0]
HD[15..0]
HC[11..0]
MA[17..0]
MD[15..0]
MEM CTRL [4..0]
GEN_MODE
NOTE:HRESET IS ACTIVE HIGH AND TIED HIGH INTERNALLY IN THO HFA3841
RADIO_PD
T/R SW
TX_DATA
TX_CLK
RX_DATA
RX_CLK
44MHz_REF
S_CLK
S_DATA
CSB
PE1
LE_IF
LE_RF
SCLK_RF_IF
SD_RF_IF
PA_PE
PE2
MD_RDY
CCA
CAL_EN
TX_PE
RX_PE
RESET_BB*
T/R_SW*
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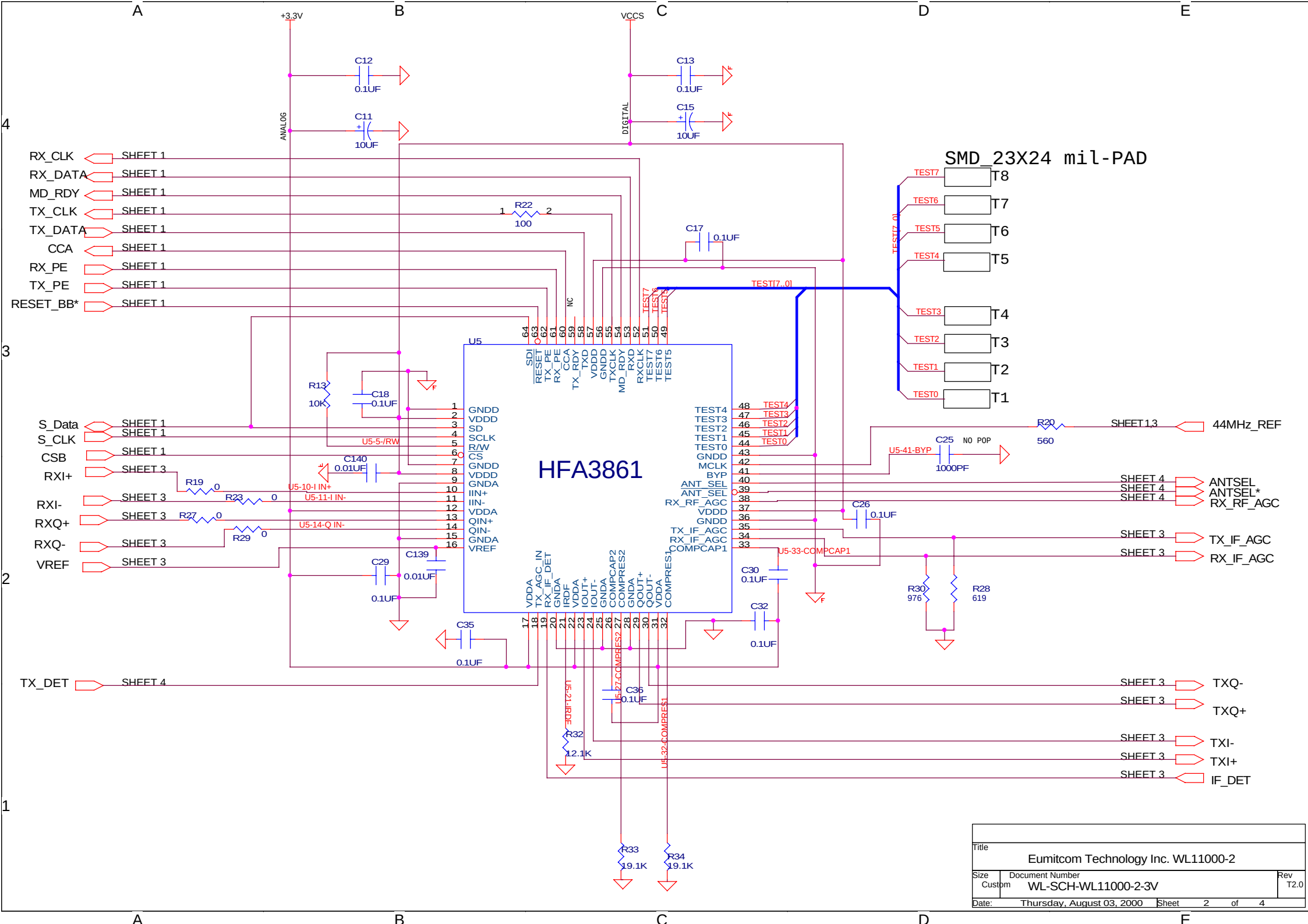

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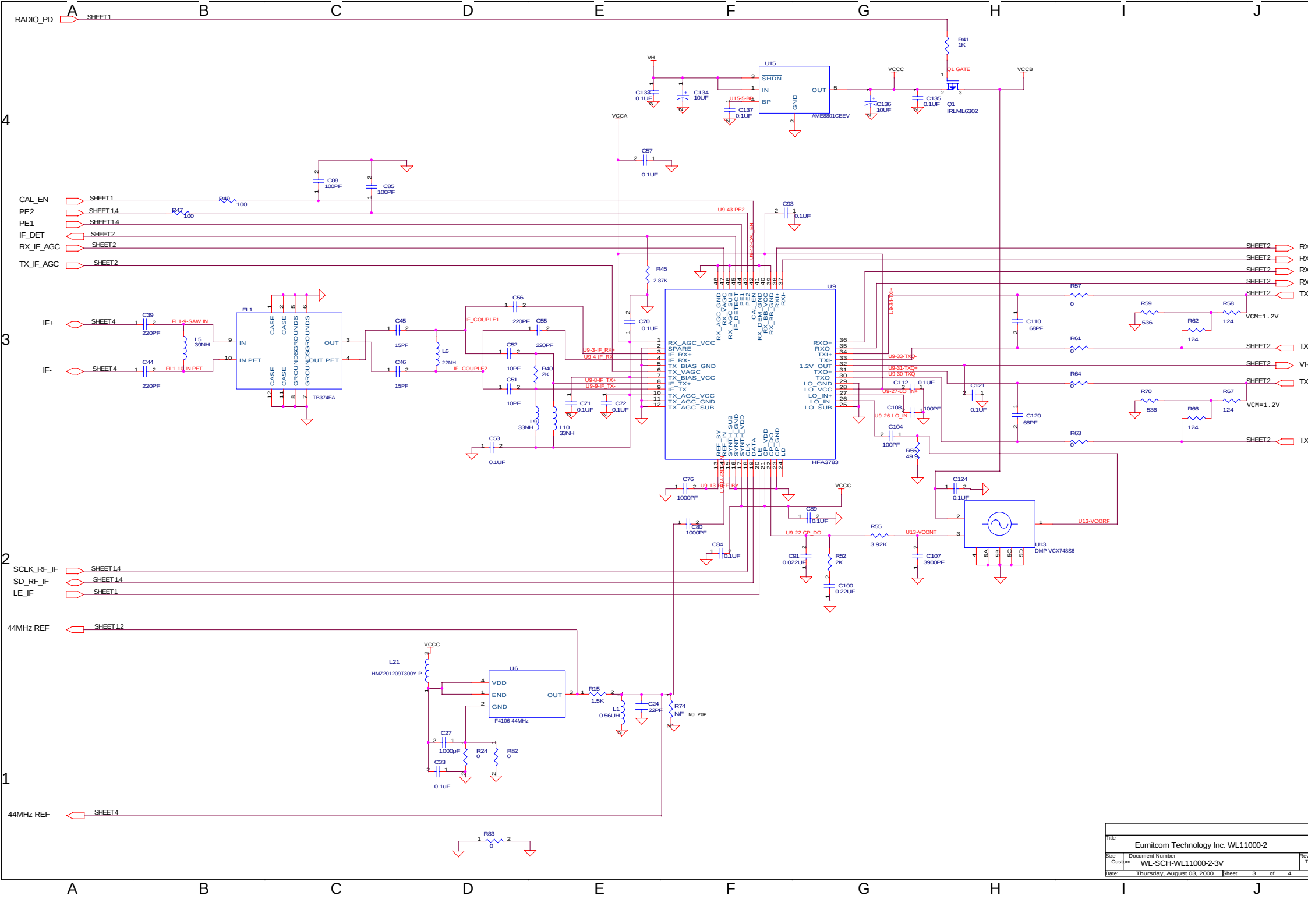
RADIO_PD
SHEET1
VH
C133 0.1UF
C134 10UF
U15
SHDN
IN
BP
GND
OUT
AME8801CEEV
U15-5-BP
C137 0.1UF
VCCC
C136 10UF
C135 0.1UF
R41 1K
Q1 GATE
Q1 IRLML6302
VCCB
VCCA
C57 0.1UF
C88 100PF
C85 100PF
CAL_EN
PE2
PE1
IF_DET
RX_IF_AGC
TX_IF_AGC
SHEET1
SHEET1,4
SHEET2
R48 100
R47 100
U9-43-PE2
U9-42-CAL_EN
C93 0.1UF
R45 2.87K
C70 0.1UF
U9
RX_AGC_VCC
SPARE
IF_RX+
IF_RX-
TX_BIAS_GND
TX_VAGC
TX_BIAS_VCC
IF_TX+
IF_TX-
TX_AGC_VCC
TX_AGC_GND
TX_AGC_SUB
RXO+
RXO-
TXI+
TXI-
1.2V_OUT
TXO+
TXO-
LO_GND
LO_VCC
LO_IN+
LO_IN-
LO_SUB
HFA3783
IF+
IF-
FL1
FL1-9-SAW IN
FL1-10-IN PET
TB374EA
C39 220PF
C44 220PF
L5 39NH
C45 15PF
C46 15PF
L6 22NH
IF_COUPLE1
IF_COUPLE2
C56 220PF
C55 220PF
C52 10PF
C51 10PF
R40 2K
L9 33NH
L10 33NH
C53 0.1UF
C71 0.1UF
C72 0.1UF
U9-3-IF_RX+
U9-4-IF_RX-
U9-8-IF_TX+
U9-9-IF_TX-
U9-34-TXI+
U9-33-TXO-
U9-31-TXO+
U9-30-TXO-
U9-27-LO_IN+
U9-26-LO_IN-
C112 0.1UF
C108 100PF
C104 100PF
R56 49.9
C121 0.1UF
C110 68PF
C120 68PF
R57 0
R61 0
R64 0
R63 0
R59 536
R62 124
R58 124
R70 536
R66 124
R67 124
VCM=1.2V
SHEET2
C76 1000PF
C80 1000PF
C84 0.1UF
C89 0.1UF
C124 0.1UF
U9-13-REF_BY
U9-22-CP_DO
R55 3.92K
C91 0.022UF
R52 2K
C100 0.22UF
C107 3900PF
U13-VCONT
U13-VCORF
U13
DMP-VCX748S6
SCLK_RF_IF
SD_RF_IF
LE_IF
SHEET1,4
SHEET1
44MHz REF
SHEET1,2
SHEET4
L21
HMZ201209T300Y-P
U6
VDD
END
GND
OUT
F4106-44MHz
R15 1.5K
L1 0.56UH
C24 22PF
R74 NIF NO POP
C27 1000pF
C33 0.1uF
R24 0
R82 0
R83 0
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RXI+
RXI-
RXQ+
RXQ-
TXI+

3

TXI-
VREF
TXQ+

TXQ -

2

1

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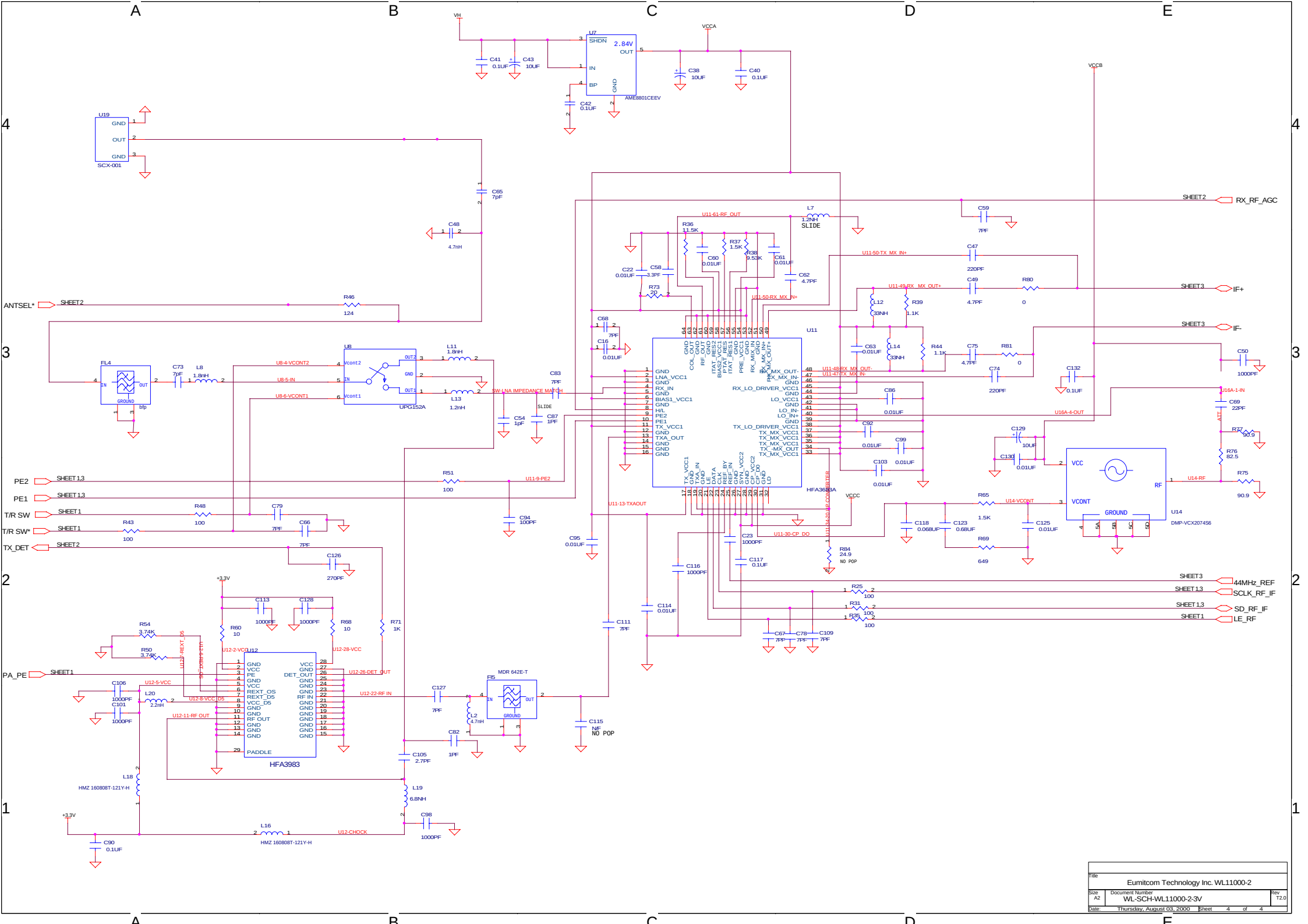

U7
SHDN
2.84V
OUT
IN
BP
GND
AME8801CEEV
VH
VCCA
VCCB
C41 0.1UF
C43 10UF
C38 10UF
C40 0.1UF
C42 0.1UF
U19
GND
OUT
GND
SCX-001
C65 7pF
C48 4.7nH
ANTSEL*
SHEET2
R46 124
FL4
IN
OUT
GROUND
bfp
C73 7pF
L8 1.8nH
U8
Vcont2
IN
Vcont1
OUT2
GND
OUT1
UPG152A
U8-4-VCONT2
U8-5-IN
U8-6-VCONT1
L11 1.8nH
L13 1.2nH
SW-LNA IMPEDANCE MATCH
C83 7PF
SLIDE
C54 1pF
C87 1PF
PE2
PE1
T/R SW
T/R SW*
TX_DET
SHEET1,3
SHEET1
SHEET2
R51 100
U11-9-PE2
R48 100
C79 7PF
C66 7PF
R43 100
C94 100PF
C126 270PF
+3.3V
C113 1000PF
C128 1000PF
R60 10
R68 10
R71 1K
R54 3.74K
R50 3.74K
U12-2-VCC
U12-28-VCC
U12
GND
VCC
PE
GND
VCC
REXT_OS
REXT_D5
VCC_D5
GND
GND
RF OUT
GND
GND
GND
PADDLE
HFA3983
VCC
GND
DET_OUT
GND
GND
GND
RF IN
GND
GND
GND
GND
GND
GND
GND
U12-26-DET_OUT
U12-22-RF IN
PA_PE
SHEET1
C106 1000PF
C101 1000PF
L20 2.2nH
U12-5-VCC
U12-8-VCC_D5
U12-11-RF OUT
C127 7PF
L2 4.7nH
MDR 642E-T
FI5
IN
OUT
GROUND
C115 NF NO POP
C82 1PF
C105 2.7PF
L18 HMZ 160808T-121Y-H
L19 6.8NH
C98 1000PF
+3.3V
L16 HMZ 160808T-121Y-H
U12-CHOCK
C90 0.1UF
U11-61-RF_OUT
L7 1.2NH SLIDE
R36 11.5K
R37 1.5K
R38 9.53K
C60 0.01UF
C61 0.01UF
C62 4.7PF
C22 0.01UF
C58 3.3PF
R73 20
U11-50-RX_MX_IN+
C68 7PF
C16 0.01UF
U11
GND
LNA_VCC1
GND
RX_IN
GND
BIAS1_VCC1
GND
H/L
PE2
PE1
TX_VCC1
GND
TXA_OUT
GND
GND
GND
RX_LO_DRIVER_VCC1
GND
LO_VCC1
GND
LO_IN-
LO_IN+
GND
TX_LO_DRIVER_VCC1
TX_MX_VCC1
TX_MX_VCC1
TX_MX_VCC1
TX_MX_OUT
TX_MX_VCC1
TX_VCC1
GND
TXA_IN
GND
LE
DATA
CLK
REF_BY
REF_IN
GND
SYN_VCC2
GND
CP_VCC2
CP_D0
GND
LD
HFA3683A
U11-13-TXAOUT
U11-30-CP_DO
U11-34-20 UP CONVERTER
VCCC
C95 0.01UF
C23 1000PF
C117 0.1UF
C116 1000PF
C114 0.01UF
C111 7PF
R84 24.9 NO POP
C59 7PF
C47 220PF
U11-50-TX_MX_IN+
C49 4.7PF
R80 0
U11-49-RX_MX_OUT+
L12 33NH
R39 1.1K
C63 0.01UF
L14 33NH
R44 1.1K
C75 4.7PF
R81 0
C74 220PF
C132 0.1UF
C50 1000PF
U11-48-RX_MX_OUT-
U11-47-TX_MX_IN-
C86 0.01UF
C92 0.01UF
C99 0.01UF
C103 0.01UF
U16A-4-OUT
U16A-1-IN
C69 22PF
ATT
R77 90.9
R76 82.5
R75 90.9
C129 10UF
C130 0.01UF
VCC
VCONT
RF
GROUND
U14
DMP-VCX2074S6
U14-RF
R65 1.5K
U14-VCONT
C118 0.068UF
C123 0.68UF
C125 0.01UF
R69 649
SHEET3
44MHz_REF
SHEET1,3
SCLK_RF_IF
SHEET1,3
SD_RF_IF
SHEET1
LE_RF
R25 100
R31 100
R35 100
C67 7PF
C78 7PF
C109 7PF
SHEET2
RX_RF_AGC
SHEET3
IF+
SHEET3
IF-
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