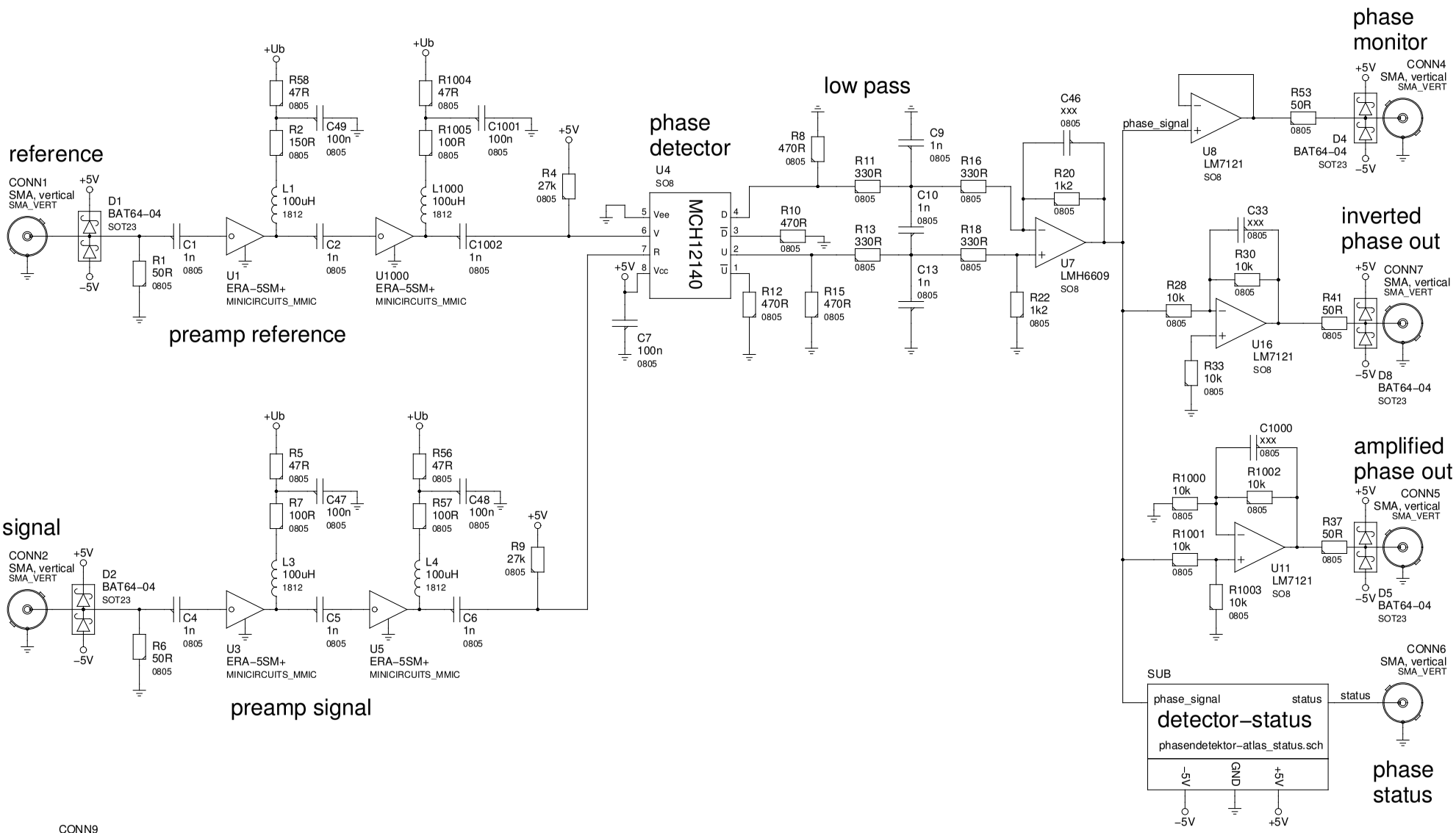
reference
signal
preamp reference
preamp signal
low pass
phase detector
phase monitor
inverted phase out
amplified phase out
phase status
CONN1 SMA, vertical SMA_VERT
CONN2 SMA, vertical SMA_VERT
D1 BAT64–04 SOT23
D2 BAT64–04 SOT23
R1 50R 0805
R6 50R 0805
C1 1n 0805
C2 1n 0805
C4 1n 0805
C5 1n 0805
C1002 1n 0805
C6 1n 0805
R58 47R 0805
R2 150R 0805
C49 100n 0805
L1 100uH 1812
R1004 47R 0805
R1005 100R 0805
C1001 100n 0805
L1000 100uH 1812
R5 47R 0805
R7 100R 0805
C47 100n 0805
L3 100uH 1812
R56 47R 0805
R57 100R 0805
C48 100n 0805
L4 100uH 1812
R4 27k 0805
R9 27k 0805
U1 ERA–5SM+ MINICIRCUITS_MMIC
U1000 ERA–5SM+ MINICIRCUITS_MMIC
U3 ERA–5SM+ MINICIRCUITS_MMIC
U5 ERA–5SM+ MINICIRCUITS_MMIC
U4 SO8
MCH12140
Vee
V
R
Vcc
C7 100n 0805
R8 470R 0805
R10 470R 0805
R12 470R 0805
R15 470R 0805
R11 330R 0805
R13 330R 0805
R16 330R 0805
R18 330R 0805
C9 1n 0805
C10 1n 0805
C13 1n 0805
C46 xxx 0805
R20 1k2 0805
R22 1k2 0805
U7 LMH6609 SO8
phase_signal
U8 LM7121 SO8
R53 50R 0805
D4 BAT64–04 SOT23
CONN4 SMA, vertical SMA_VERT
C33 xxx 0805
R30 10k 0805
R28 10k 0805
R33 10k 0805
U16 LM7121 SO8
R41 50R 0805
D8 BAT64–04 SOT23
CONN7 SMA, vertical SMA_VERT
C1000 xxx 0805
R1002 10k 0805
R1000 10k 0805
R1001 10k 0805
R1003 10k 0805
U11 LM7121 SO8
R37 50R 0805
D5 BAT64–04 SOT23
CONN5 SMA, vertical SMA_VERT
SUB
phase_signal
status
detector–status
phasendetektor–atlas_status.sch
–5V
GND
+5V
CONN6 SMA, vertical SMA_VERT
CONN9 XLR–3pin XLR3_3PIN_c
+supply
screen
–supply
supply
+Ub
+5V
–5V
GND
phasendetektor–atlas_supply.sch
C8 100n 0805
C11 100n 0805
C21 100n 0805
C19 100n 0805
C12 100n 0805
C15 100n 0805
C36 100n 0805
C25 100n 0805
opamp
H1
H2
H3
H4
H5
H6
H7
H8
D3.2mm
hole_m3
M1
Hammond, 1590QBK
BOX_HAMMOND_1590Q
Phasendetektor–Atlas
TITLE
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REV.:
04.02.2010
DATE:
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