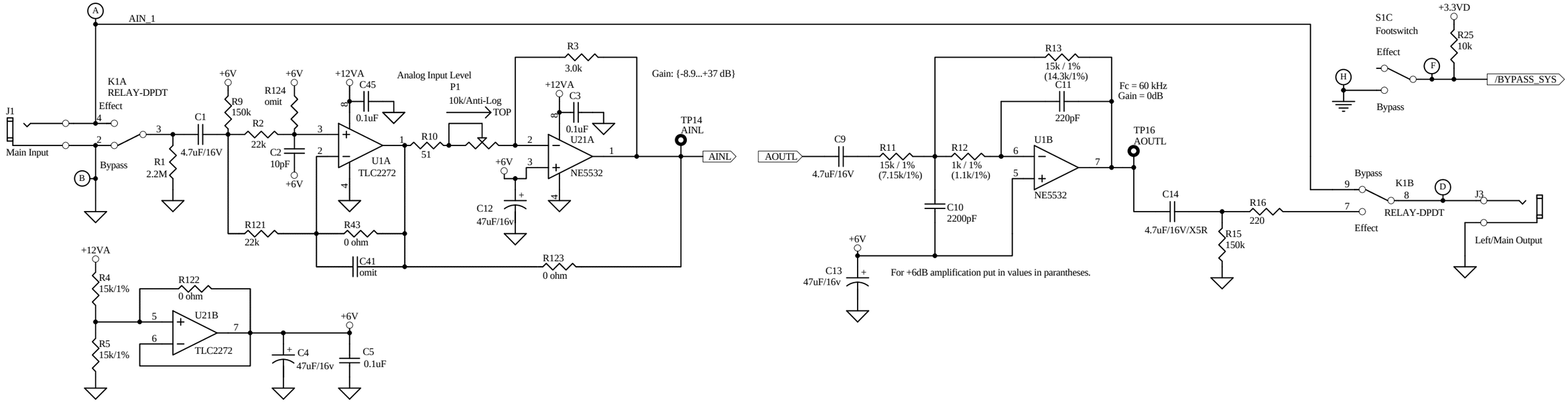
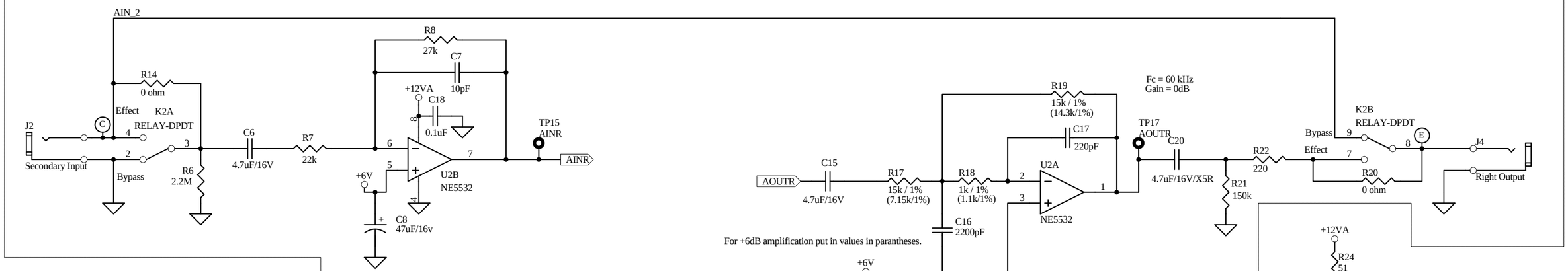


OMIT Secondary Input Section From Production.



EC-0070rA_codecs+PWR
EC-0070rA_codecs+PWR.Sch

- DIG_AUD_OUT
- DIG_AUD_IN
- AUD_MCLK
- AUD_SCLK
- AUD_LRCK
- AINL
- AOUTL
- AOUTR
- /RST_CODEC
- AINR

EC-0070rA_DSP
EC-0070rA_DSP.Sch

- /RST_DSP
- AUD_MCLK
- AUD_SCLK
- AUD_LRCK
- DIG_AUD_OUT
- DIG_AUD_IN
- SPI_DI
- SPI_DO
- /CS_DSP
- /DSP_HREQ
- SPI_CLK
- MCLK
- LED2
- AA0/$\overline{RAS0}$
- AA1/$\overline{RAS1}$
- /CAS
- /RD
- /WR
- LED3
- LED4
- DSPSW

EC-0070rA_DSP_Memory
EC-0070rA_DSP_Memory.Sch

- AA0/$\overline{RAS0}$
- /CAS
- /RD
- /WR
- AA1/$\overline{RAS1}$
- /CAS
- /RD
- /WR
- AA0/$\overline{RAS0}$
- AA1/$\overline{RAS1}$
- /RD
- /WR
- /RD
- /WR

EC-0070rA_uController
EC-0070rA_uController.Sch

- SPI_CLK
- SPI_DI
- SPI_DO
- /CS_DSP
- /DSP_HREQ
- MCLK
- AUD_MCLK
- /BYPASS_SYS
- /RST_CODEC
- /RST_DSP
- Vpp
- /BYPASS_RELAY
- CV AUX
- CV IN2
- CV IN1
- DSPSW

EC-0070rA_CV
EC-0070rA_CV.Sch

- CV AUX
- CV IN2
- CV IN1

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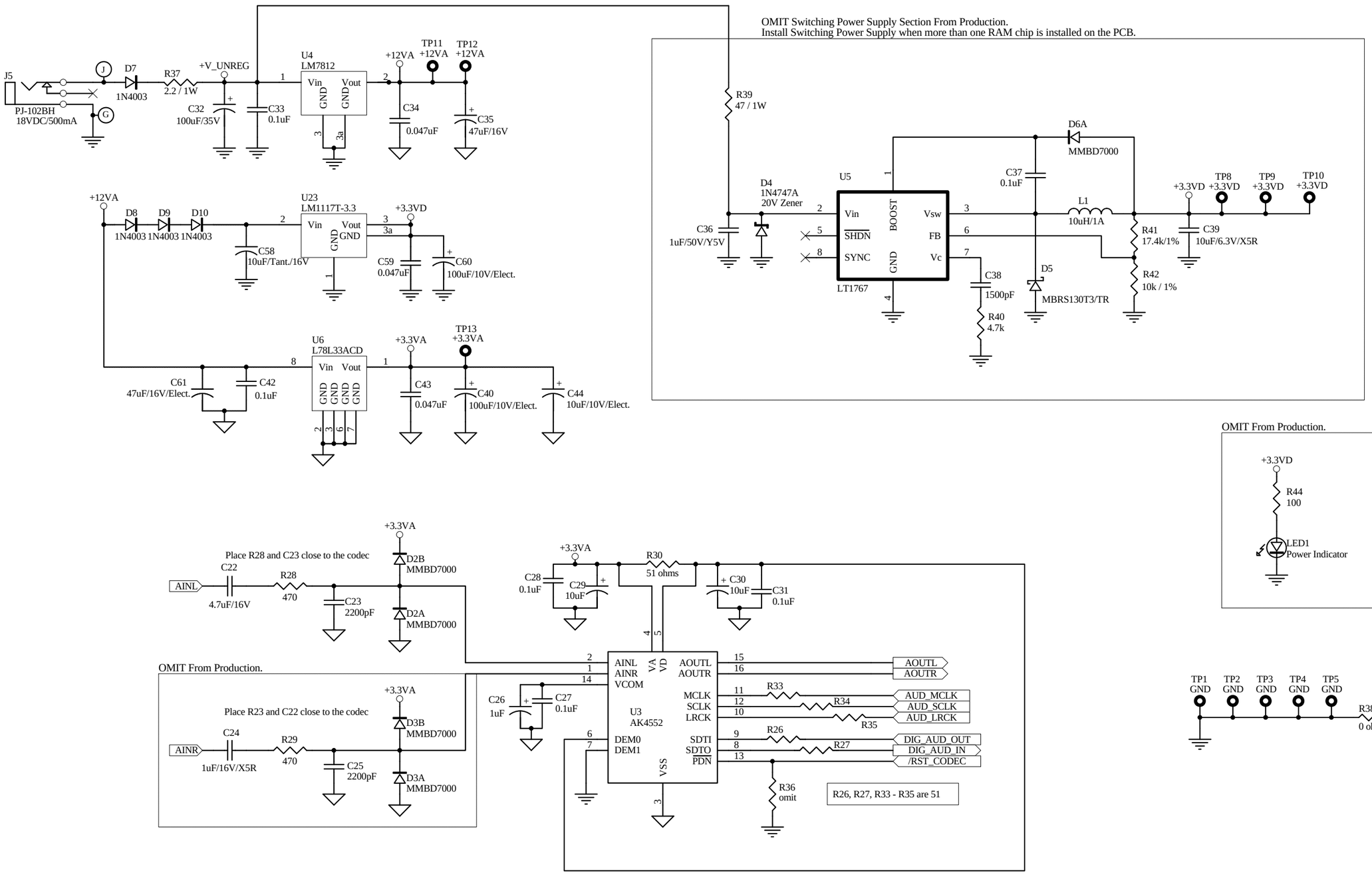
Title: POG - Audio I/O		
Size: B	Number: EC-0070	Revision: A
Date: 21-Mar-2005		Sheet 1 of 6
File: C:\EC-0070\EC-0070.ddb		Drawn By: John Pisani



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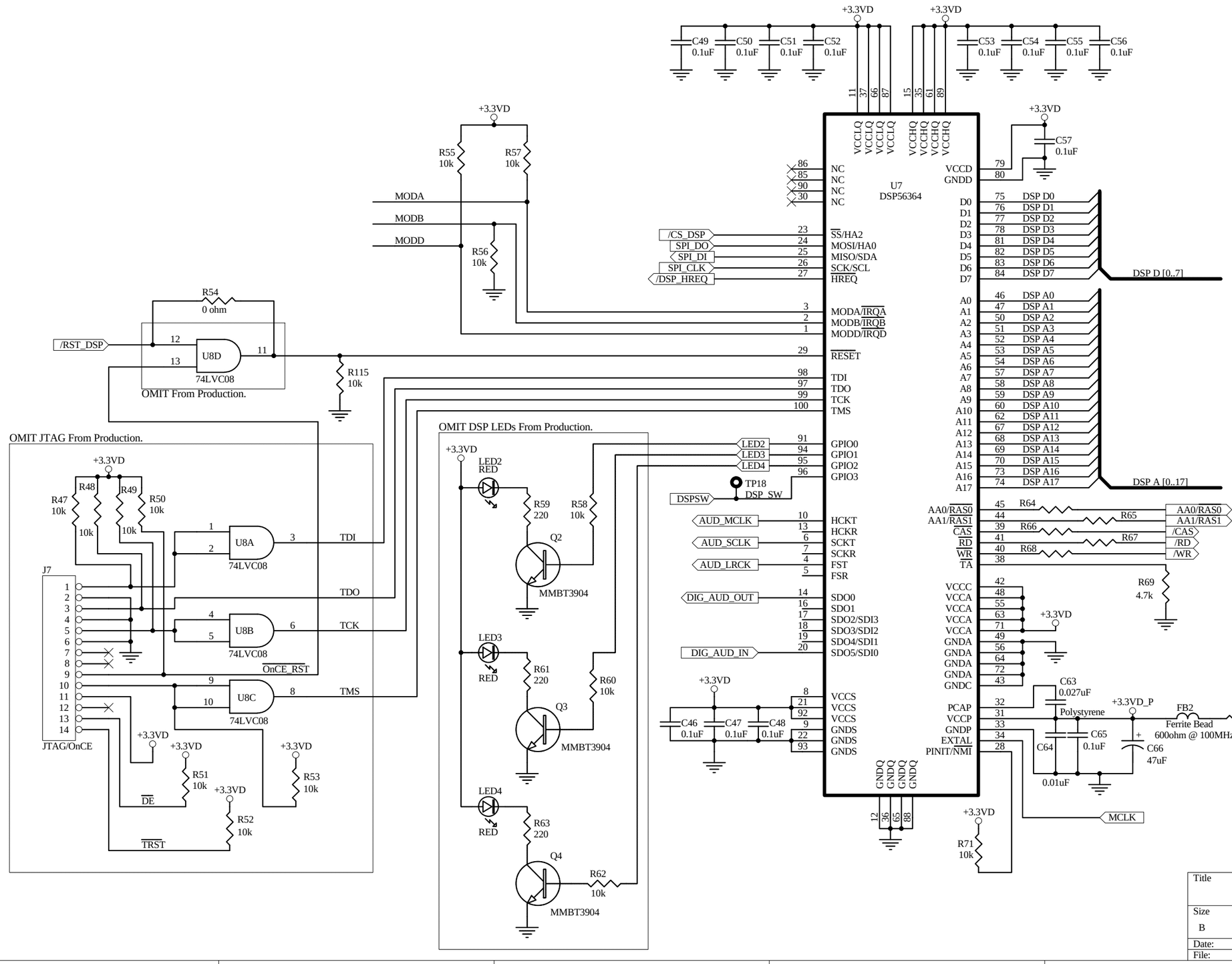
Title: POG - Codec and Power Supply		
Size: B	Number: EC-0070	Revision: A
Date: 21-Mar-2005		Sheet 2 of 6
File: C:\EC-0070\EC-0070.ddb		Drawn By: John Pisani


+3.3VD
C49 0.1uF
C50 0.1uF
C51 0.1uF
C52 0.1uF
C53 0.1uF
C54 0.1uF
C55 0.1uF
C56 0.1uF
C57 0.1uF
U7
DSP56364
VCCLQ
VCCHQ
VCCD
GNDD
NC
/SS/HA2
MOSI/HA0
MISO/SDA
SCK/SCL
HREQ
MODA/IRQA
MODB/IRQB
MODD/IRQD
RESET
TDI
TDO
TCK
TMS
GPIO0
GPIO1
GPIO2
GPIO3
HCKT
HCKR
SCKT
SCKR
FST
FSR
SDO0
SDO1
SDO2/SDI3
SDO3/SDI2
SDO4/SDI1
SDO5/SDI0
VCCS
GNDS
GNDQ
PCAP
VCCP
GNDP
EXTAL
PINIT/NMI
D0
D1
D2
D3
D4
D5
D6
D7
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
AA0/RAS0
AA1/RAS1
CAS
RD
WR
TA
VCCA
GNDA
GNDC
DSP D0
DSP D1
DSP D2
DSP D3
DSP D4
DSP D5
DSP D6
DSP D7
DSP D [0..7]
DSP A0
DSP A1
DSP A2
DSP A3
DSP A4
DSP A5
DSP A6
DSP A7
DSP A8
DSP A9
DSP A10
DSP A11
DSP A12
DSP A13
DSP A14
DSP A15
DSP A16
DSP A17
DSP A [0..17]
R64
R65
R66
R67
R68
/CAS
/RD
/WR
R64-R68 are 0 ohm resistors.
R69 4.7k
R55 10k
R56 10k
R57 10k
MODA
MODB
MODD
/CS_DSP
SPI_DO
SPI_DI
SPI_CLK
/DSP_HREQ
R54 0 ohm
/RST_DSP
U8D
74LVC08
OMIT From Production.
R115 10k
OMIT JTAG From Production.
R47 10k
R48 10k
R49 10k
R50 10k
U8A
U8B
U8C
TDI
TDO
TCK
TMS
OnCE_RST
J7
JTAG/OnCE
R51 10k
R52 10k
R53 10k
DE
TRST
OMIT DSP LEDs From Production.
LED2
LED3
LED4
RED
R59 220
R58 10k
R61 220
R60 10k
R63 220
R62 10k
Q2
Q3
Q4
MMBT3904
TP18
DSP_SW
DSPSW
AUD_MCLK
AUD_SCLK
AUD_LRCK
DIG_AUD_OUT
DIG_AUD_IN
C46 0.1uF
C47 0.1uF
C48 0.1uF
C63 0.027uF
Polystyrene
C64 0.01uF
C65 0.1uF
+3.3VD_P
FB2
Ferrite Bead
600ohm @ 100MHz
C66 47uF
R70 51
C67 0.1uF
MCLK
R71 10k
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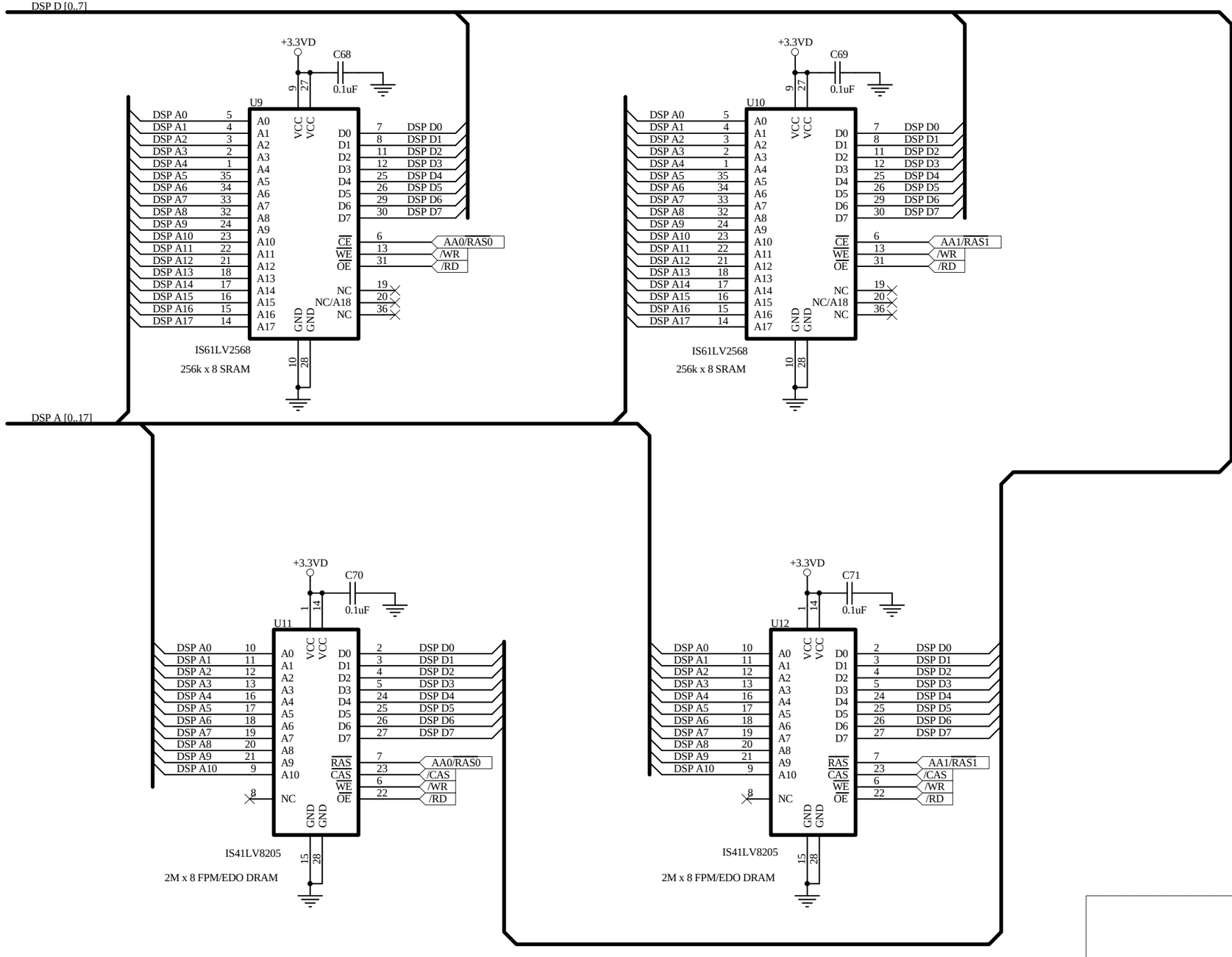
Title
POG - DSP
Size B
Number EC-0070
Revision A
Date: 21-Mar-2005
Sheet 3 of 6
File: C:\EC-0070\EC-0070.ddb
Drawn By: John Pisani

OMIT External Memeory Section From Production.

DSP D [0..7]

DSP A [0..17]



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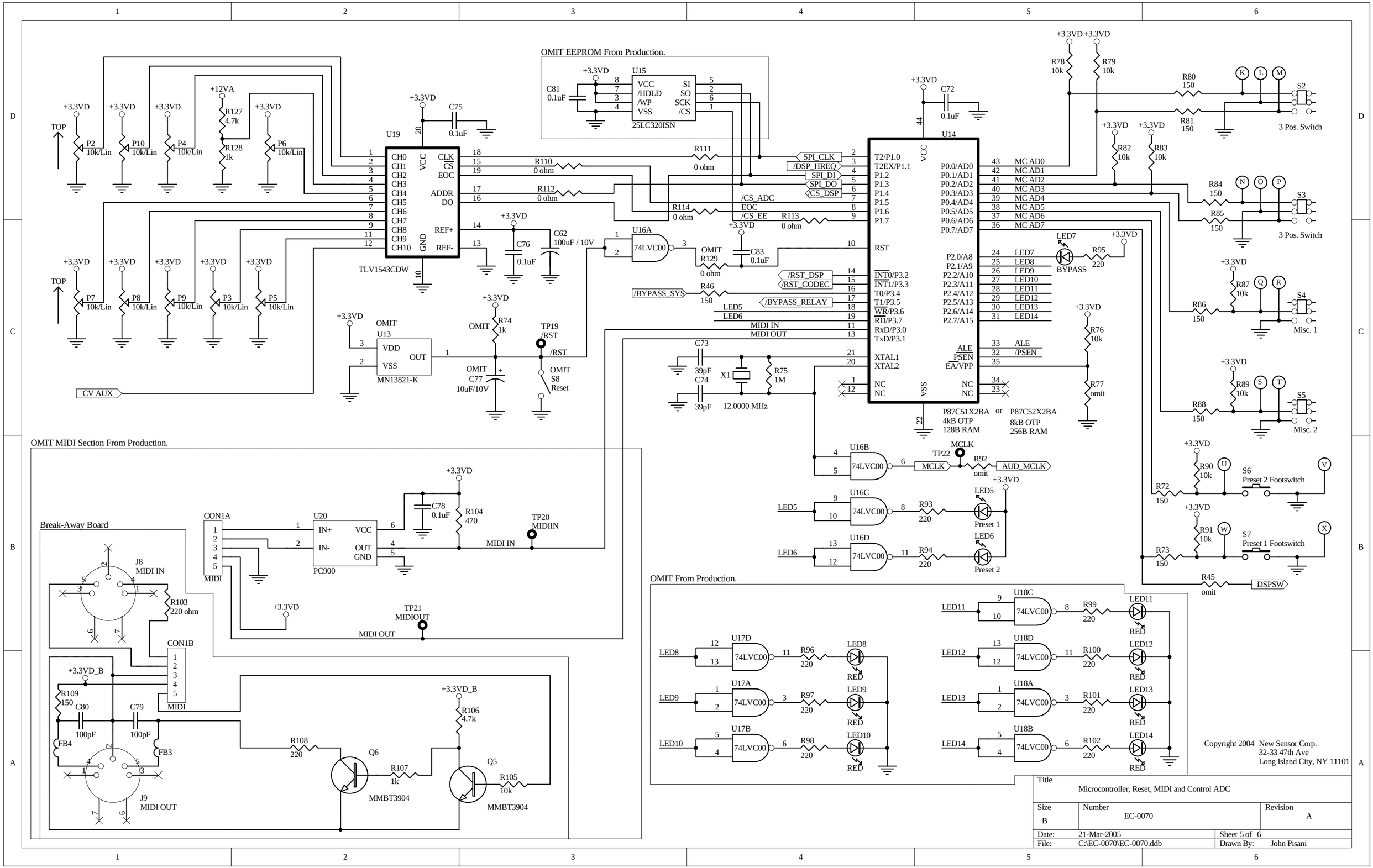
Title	POG - DSP Memory		
Size: B	Number: EC-0070		Revision: A
Date: 21-Mar-2005		Sheet 4 of 6	
File: C:\EC-0070\EC-0070.ddb		Drawn By: John Pisani	


OMIT EEPROM From Production.
U15
25LC320ISN
U19
TLV1543CDW
U14
P87C51X2BA
4kB OTP
128B RAM
or
P87C52X2BA
8kB OTP
256B RAM
U13
MN13821-K
U16A
74LVC00
U16B
U16C
U16D
U17A
U17B
U17D
U18A
U18B
U18C
U18D
OMIT MIDI Section From Production.
Break-Away Board
CON1A
MIDI
U20
PC900
CON1B
J8
MIDI IN
J9
MIDI OUT
Q6
MMBT3904
Q5
MMBT3904
OMIT From Production.
3 Pos. Switch
Misc. 1
Misc. 2
Preset 2 Footswitch
Preset 1 Footswitch
DSPSW
CV AUX
12.0000 MHz
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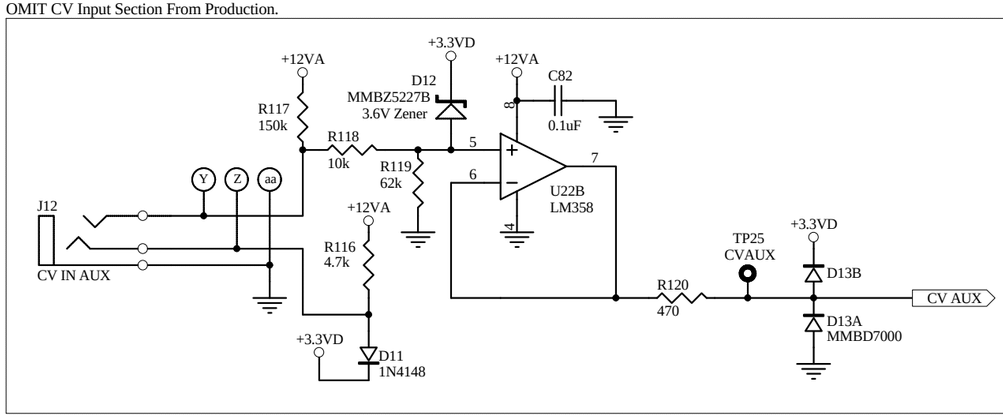
Long Island City, NY 11101
Title
Microcontroller, Reset, MIDI and Control ADC
Size
B
Number
EC-0070
Revision
A
Date: 21-Mar-2005
Sheet 5 of 6
File: C:\EC-0070\EC-0070.ddb
Drawn By: John Pisani

OMIT CV Input Section From Production.



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Title: POG - Control Voltage Inputs		
Size: B	Number: EC-0070	Revision: A
Date: 21-Mar-2005		Sheet 6 of 6
File: C:\EC-0070\EC-0070.ddb		Drawn By: John Pisani