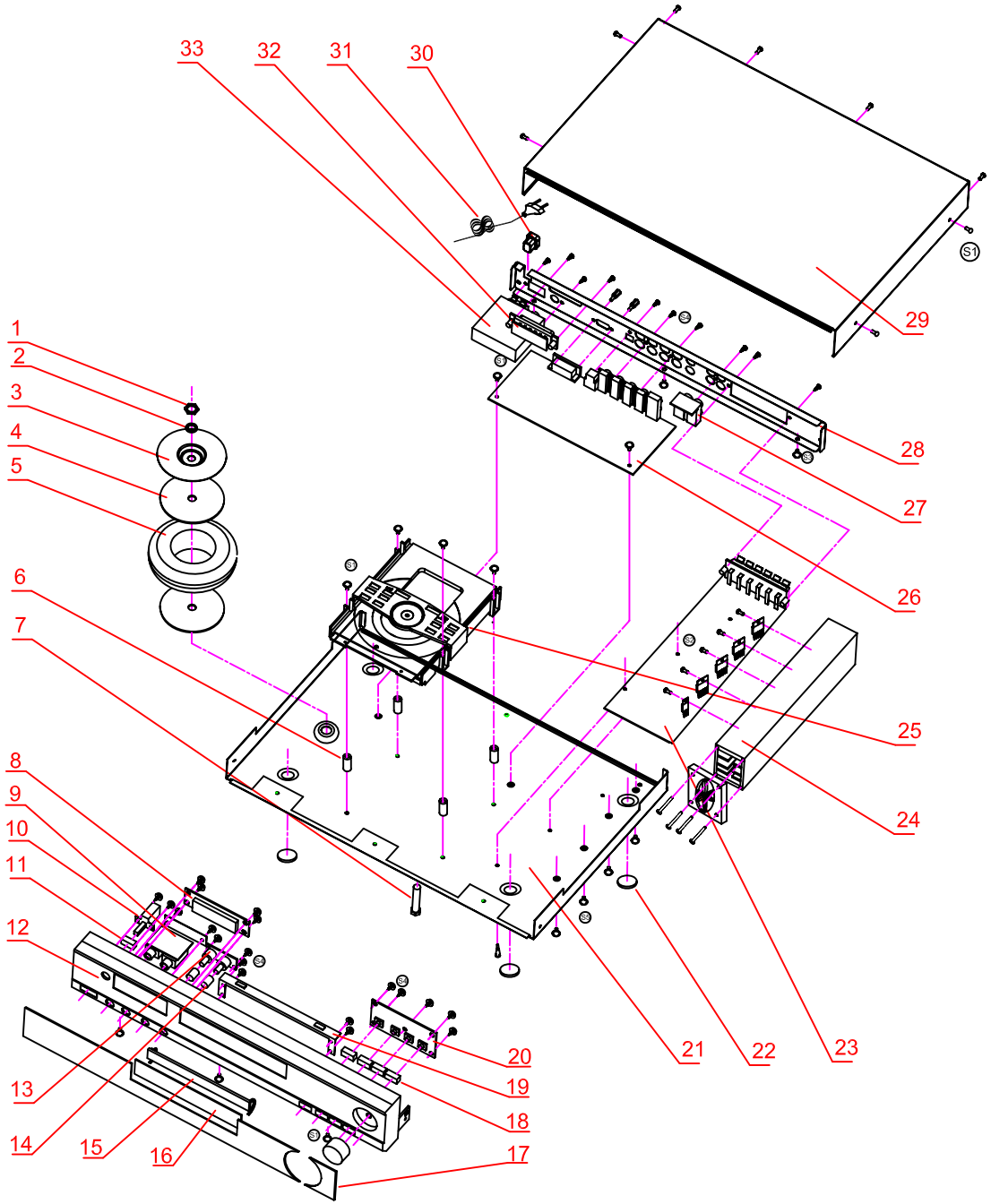
Elenberg HT-450



ELELNBERG

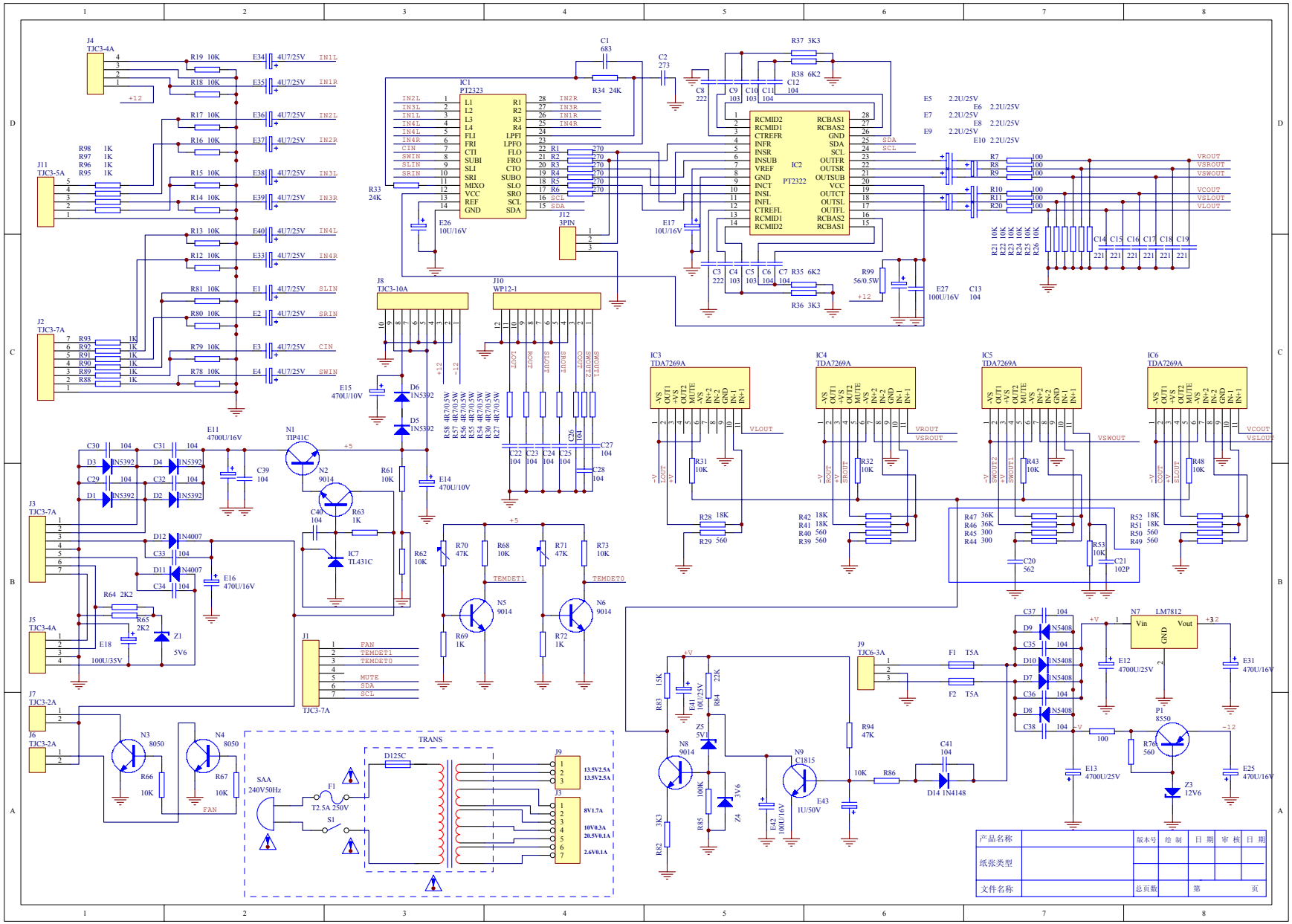
LOGO:ELELNBERG

MODEL:HT-450

Item	Description	Qty	Item	Description	Qty
30	PLASTIC NIP	1			
29	COVER	1			
28	BACKBOARD	1			
27	RCA	1			
26	INPUT ASS'Y	1			
25	Mechanism Ass'y	1			
24	RADIATOR	1			
23	SPEAKER OUT PCB	1			
22	FOOT PIECE	4			
21	MOTHERBOARD	1			
20	FUNCTION KEY PCB	1			
19	PANEL BRACKET	1	S1	M3X6	
18	FUNCTION KEY	5	S2	M3x8	
17	LENS(2)	1	S3	M3X4	
16	LENS(1)	1	S4	BT3x8	
15	DISK DOOR	1	S5	ST4X10	
14	MIC KNOB	2			
13	MIC SOCKET	1			
12	PANEL	1			
11	POWER KEY	1			
10	POWER SWITCH	1			
9	MIC PCB	1			
8	DISPLAY PCB	1			
7	SCREW,M8	1			
6	ABS BRACE	4			
5	TRANSFORMER	1			
4	RUBBER WASHER	2			
3	COVER	1	33	RECEIVER	1
2	WASHER	1	32	SCART	1
1	NUT,M8	1	31	POWER LINE	1

Spare Parts List (HT-450)

Item	Description	Qty	Part №
1	NUT, M8	1	HT-450-1
2	WASHER	1	HT-450-2
3	COVER	1	HT-450-3
4	RUBBER WASHER	2	HT-450-4
5	TRANSFORMER	1	HT-450-5
6	ABS BRACE	4	HT-450-6
7	SCREW, M8	1	HT-450-7
8	DISPLAY PCB	1	HT-450-8
9	MIC PCB	1	HT-450-9
10	POWER SWITCH	1	HT-450-10
11	POWER KEY	1	HT-450-11
12	PANEL	1	HT-450-12
13	MIC SOCKET	1	HT-450-13
14	MIC KNOB	2	HT-450-14
15	DISK DOOR	1	HT-450-15
16	LENS (1)	1	HT-450-16
17	LENS (2)	1	HT-450-17
18	FUNCTION KEY	5	HT-450-18
19	PANEL BRACKET	1	HT-450-19
20	FUNCTION KEY PCB	1	HT-450-20
21	MOTHERBOARD	1	HT-450-21
22	FOOT PIECE	4	HT-450-22
23	SPEAKER OUT PCB	1	HT-450-23
24	RADIATOR	1	HT-450-24
25	Mechanism Ass’y	1	HT-450-25
26	INPUT ASS’Y	1	HT-450-26
27	RCA	1	HT-450-27
28	BACKBOARD	1	HT-450-28
29	COVER	1	HT-450-29
30	PLASTIC NIP	1	HT-450-30
31	POWER LINE	1	HT-450-31
32	SCART	1	HT-450-32
33	RECEIVER	1	HT-450-33



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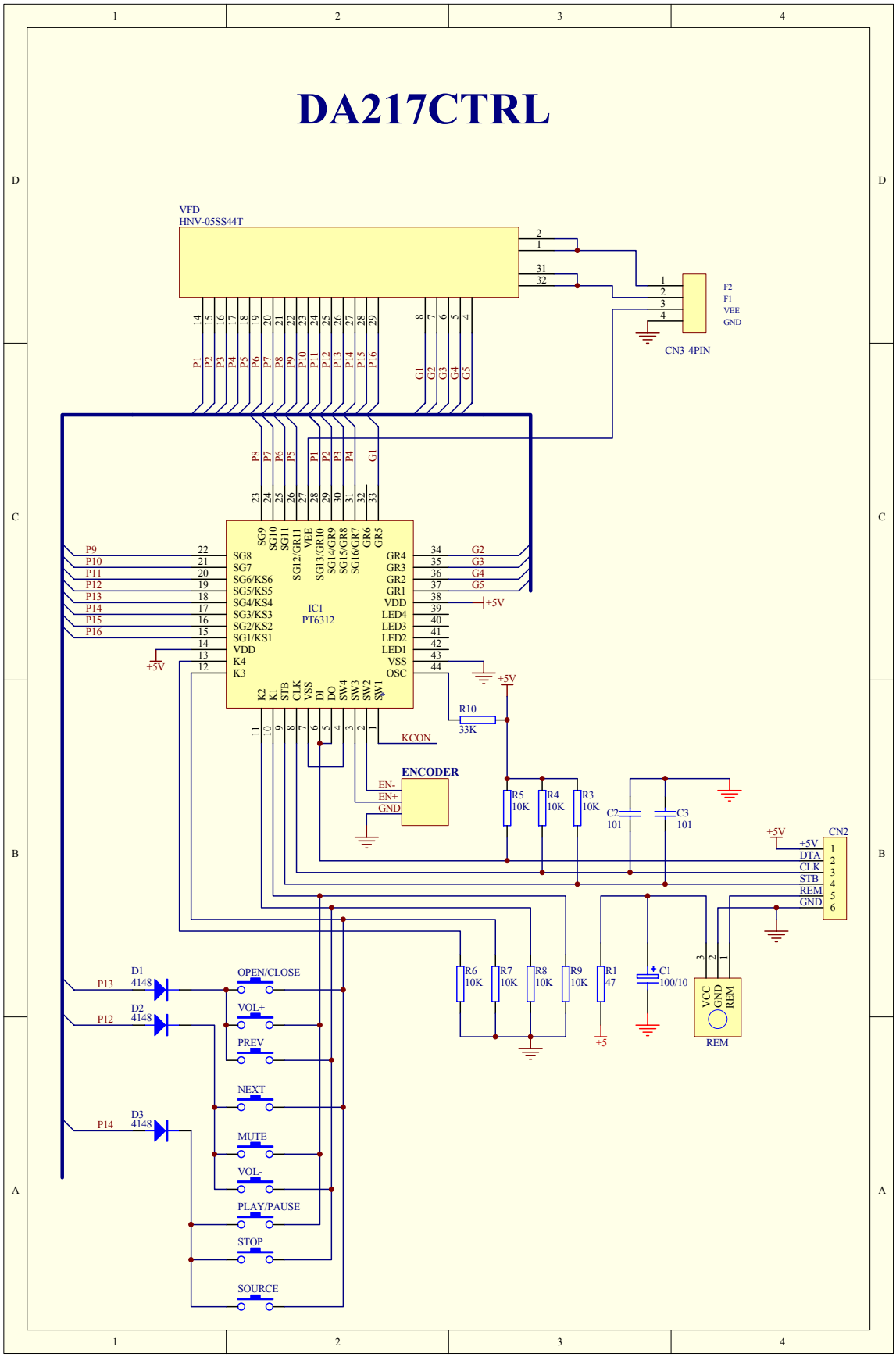
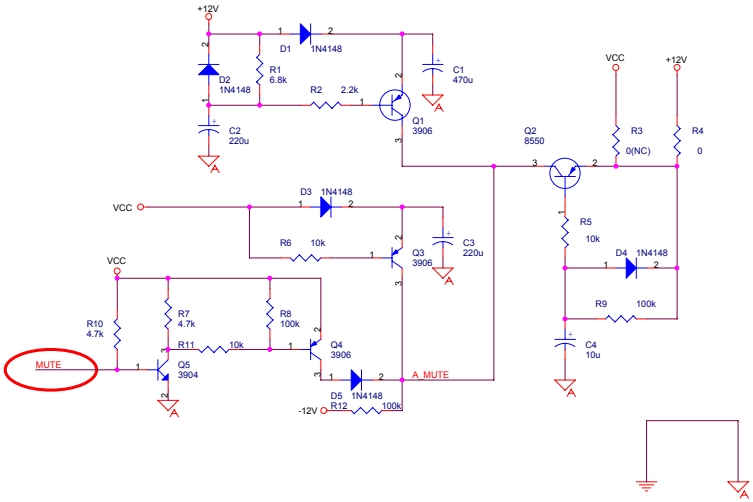
DA217CTRL

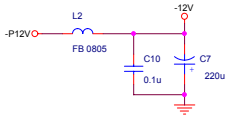

VFD
HNV-05SS44T
CN3 4PIN
F2
F1
VEE
GND
IC1
PT6312
+5V
R10
33K
KCON
ENCODER
EN-
EN+
GND
R5 10K
R4 10K
R3 10K
C2 101
C3 101
CN2
+5V
DTA
CLK
STB
REM
GND
R6 10K
R7 10K
R8 10K
R9 10K
R1 47
C1 100/10
VCC
GND
REM
D1 4148
D2 4148
D3 4148
OPEN/CLOSE
VOL+
PREV
NEXT
MUTE
VOL-
PLAY/PAUSE
STOP
SOURCE

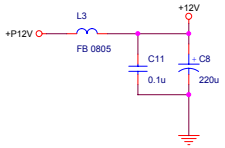
MR89EM6-11.1
MT1389E DVD Demo Board for SONY KHM313/310 PUH

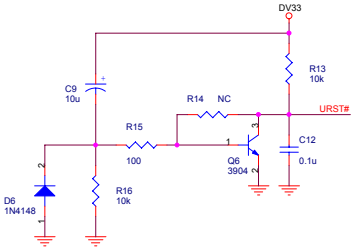
1 INDEX & POWER, RESET
2 SERVO / MPEG - MT1389E
3 MEMORY - SDRAM, FLASH/EEPROM
4 AUDIO / VIDEO FILTER

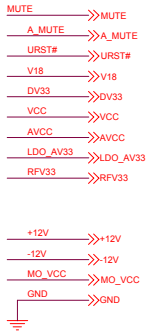
NAME	TYPE	DEVICE
VCC	Digital 5V	SUPPLY
DV33	Digital 3.3V	MT1389E
RFV33	Servo 3.3V	MT1389E
LDO_AV33	Laser Diode 3.3V	
AVCC	RF 5V	PICKUP HEADER
V18	Digital 1.8V	MT1389E
SD33	Digital 3.3V	SDRAM
+12V	Audio +12V	OP AMP.
-12V	Audio -12V	OP AMP.
AVDD	Audio 5V	Audio DAC
DVDD	Audio 5V	Audio DAC

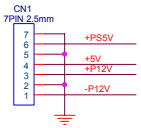


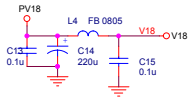


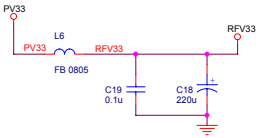


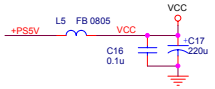


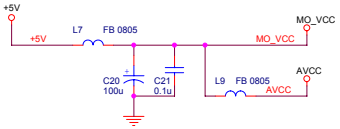












VTREK

MT1389E RECEIVER 5.1CH OUTPUT

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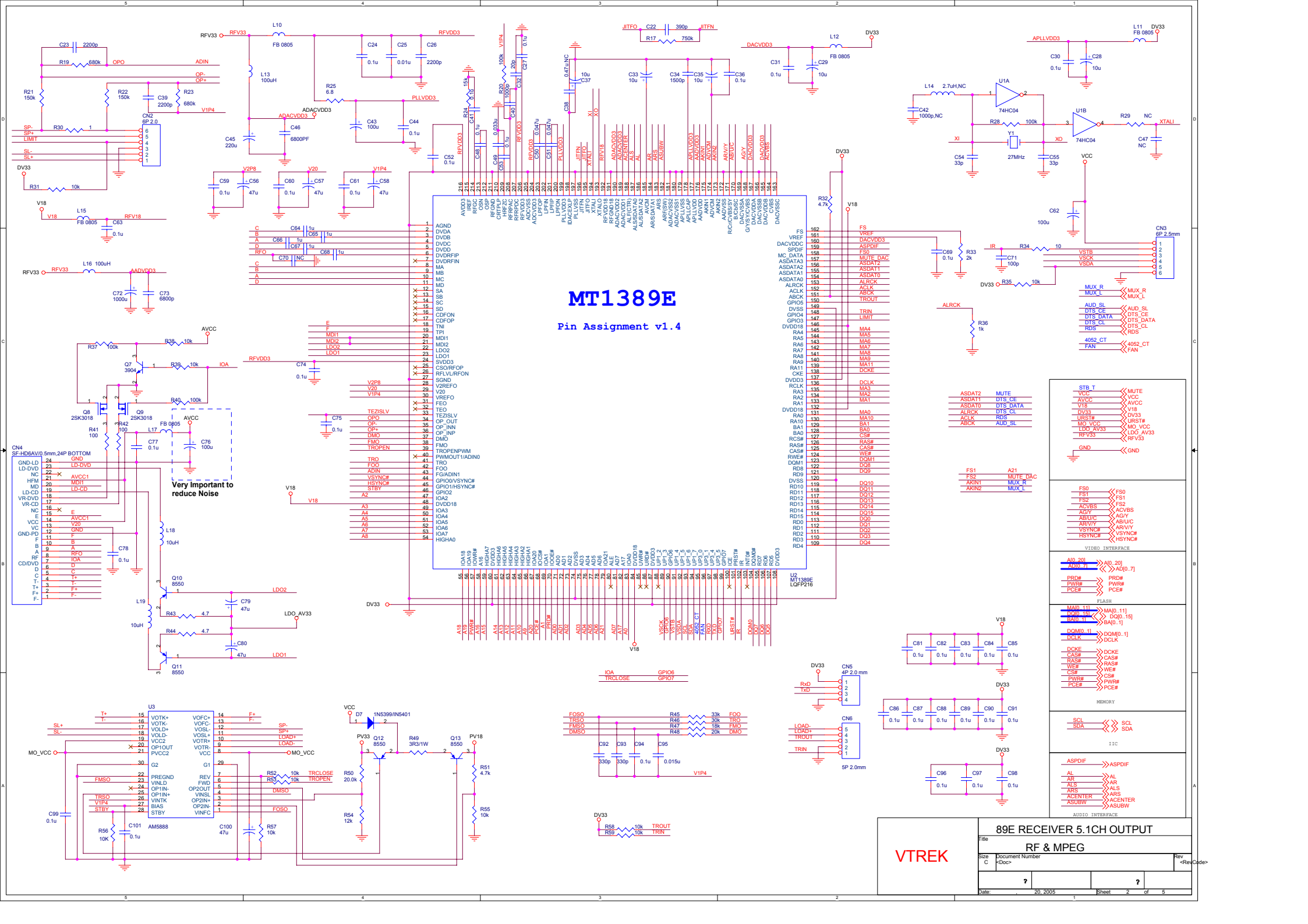
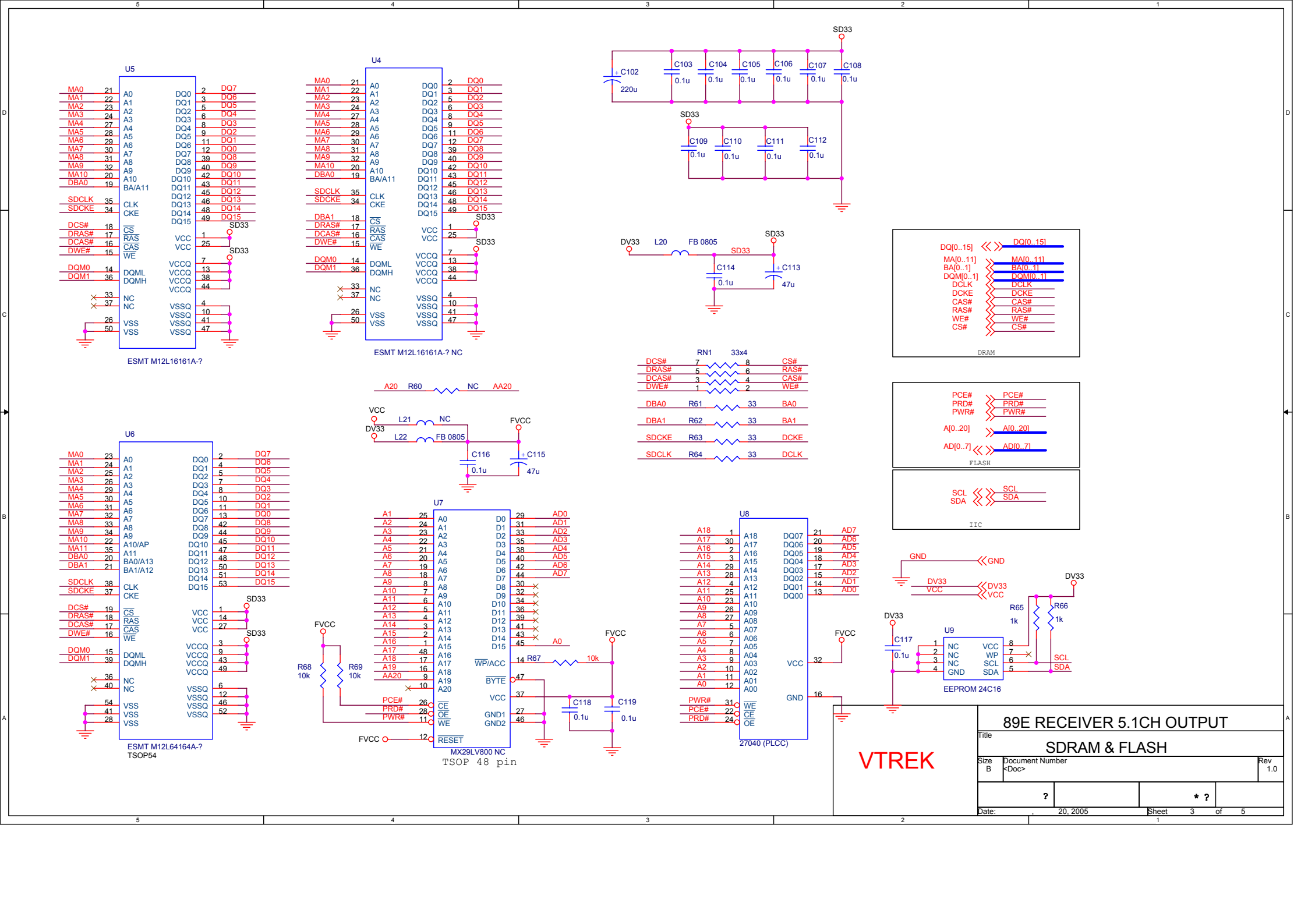
Date: , 20, 2005 | Sheet 1 of 5


MT1389E
Pin Assignment v1.4
Very Important to reduce Noise
U2 MT1389E LQFP216
U3 AM5888
CN4 SF-HD6AV/0.5mm,24P BOTTOM
CN2 6P 2.0
CN3 6P 2.5mm
CN5 4P 2.0 mm
CN6 5P 2.0mm
VIDEO INTERFACE
FLASH
MEMORY
IIC
AUDIO INTERFACE
89E RECEIVER 5.1CH OUTPUT
RF & MPEG
VTREK
Date: 20, 2005
Sheet 2 of 5


U5
ESMT M12L16161A-?
U4
ESMT M12L16161A-? NC
SD33
C102 220u
C103 0.1u
C104 0.1u
C105 0.1u
C106 0.1u
C107 0.1u
C108 0.1u
C109 0.1u
C110 0.1u
C111 0.1u
C112 0.1u
DV33
L20
FB 0805
C114 0.1u
C113 47u
DQ[0..15]
MA[0..11]
BA[0..1]
DQM[0..1]
DCLK
DCKE
CAS#
RAS#
WE#
CS#
DRAM
RN1 33x4
DCS#
DRAS#
DCAS#
DWE#
DBA0
DBA1
SDCKE
SDCLK
R61 33 BA0
R62 33 BA1
R63 33 DCKE
R64 33 DCLK
PCE#
PRD#
PWR#
A[0..20]
AD[0..7]
FLASH
SCL
SDA
IIC
A20 R60 NC AA20
VCC
DV33
L21 NC
L22 FB 0805
FVCC
C116 0.1u
C115 47u
U6
ESMT M12L64164A-?
TSOP54
U7
MX29LV800 NC
TSOP 48 pin
R68 10k
R69 10k
R67 10k
C118 0.1u
C119 0.1u
U8
27040 (PLCC)
GND
R65 1k
R66 1k
U9
EEPROM 24C16
C117 0.1u
VTREK
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SDRAM & FLASH
Size B
Document Number
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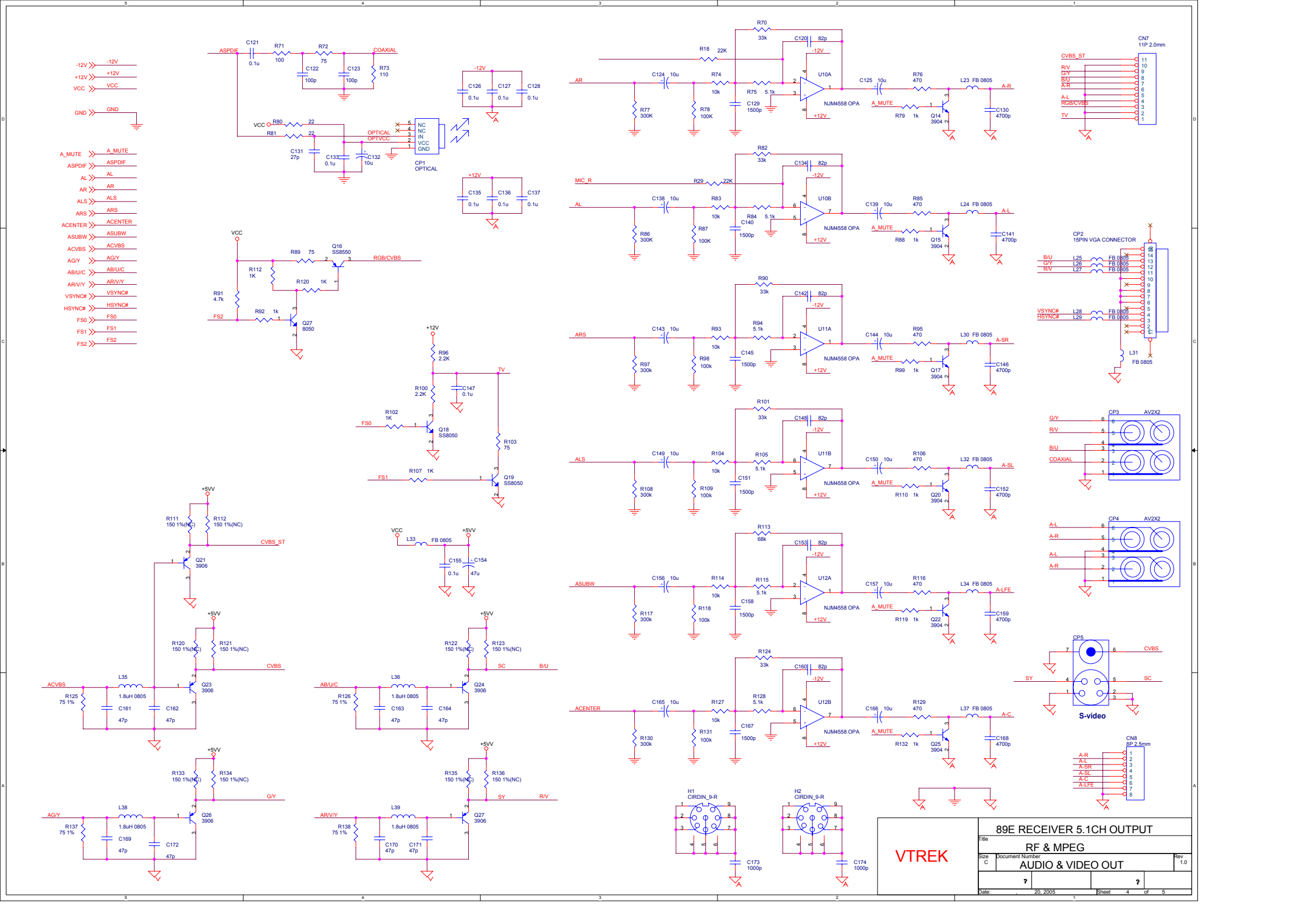
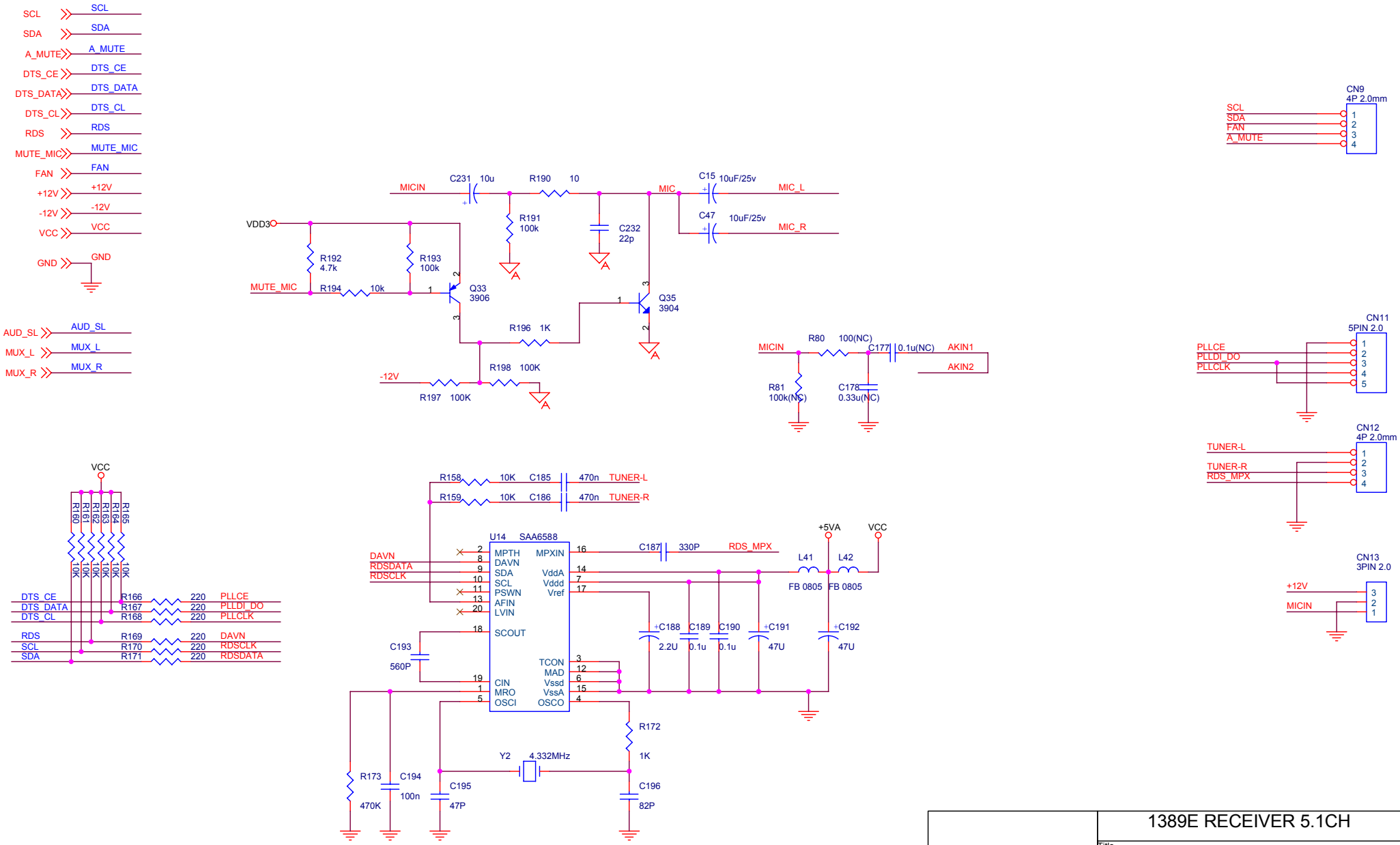
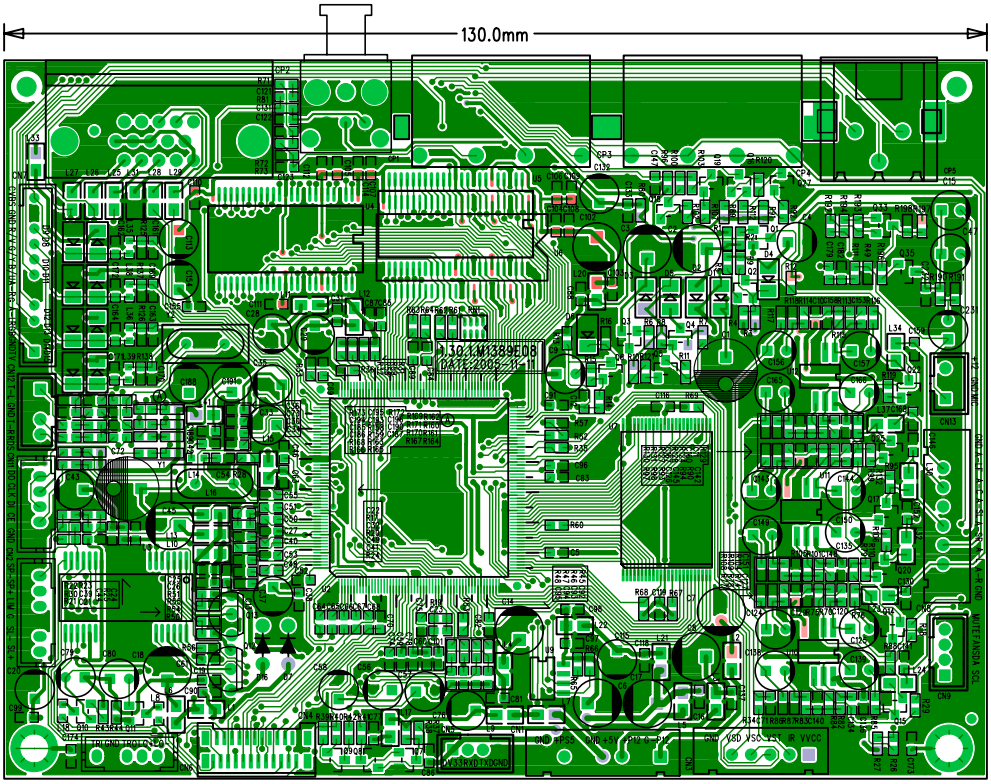
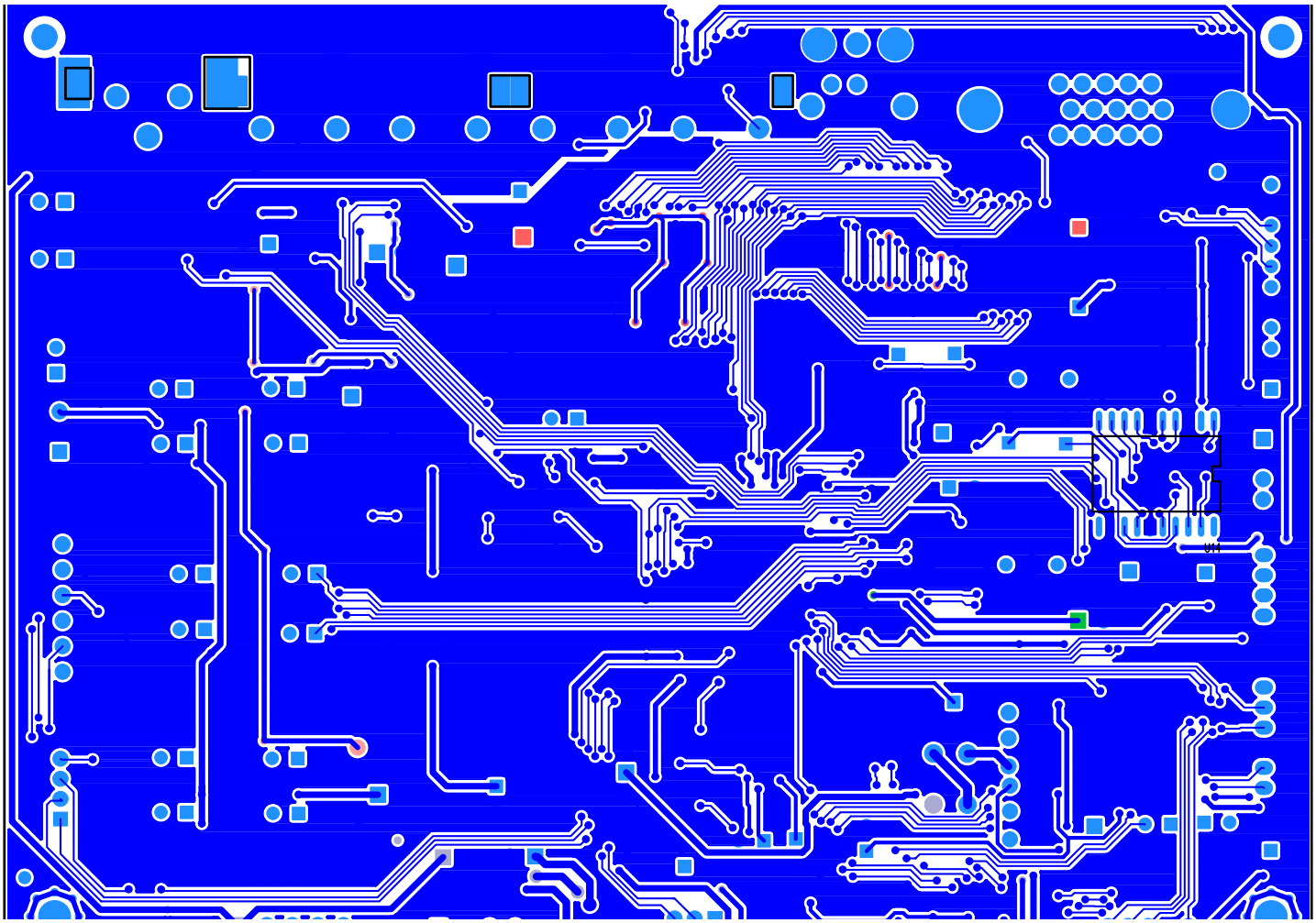
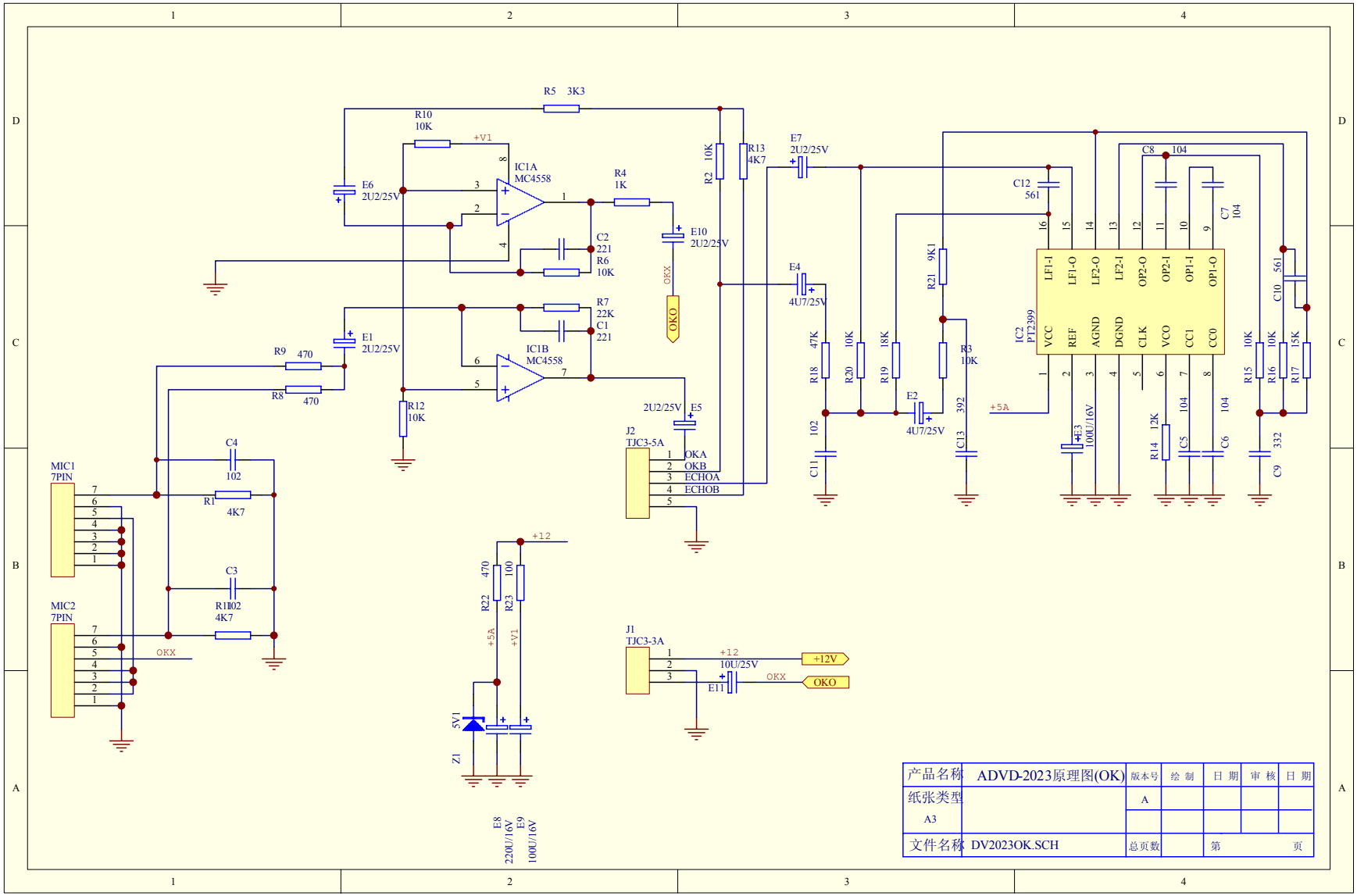
Rev 1.0
Date: , 20, 2005
Sheet 3 of 5


-12V
+12V
VCC
GND
A_MUTE
ASPDIF
AL
AR
ALS
ARS
ACENTER
ASUBW
ACVBS
AG/Y
AB/U/C
AR/V/Y
VSYNC#
HSYNC#
FS0
FS1
FS2
ASPDIF
COAXIAL
OPTICAL
OPTVCC
CP1
OPTICAL
RGB/CVBS
TV
CVBS_ST
CVBS
SC
B/U
G/Y
SY
R/V
A-R
A-L
A-SR
A-SL
A-C
A-LFE
AR
AL
MIC_R
ARS
ALS
ASUBW
ACENTER
NJM4558 OPA
U10A
U10B
U11A
U11B
U12A
U12B
CN7
11P 2.0mm
CP2
15PIN VGA CONNECTOR
CP3
AV2X2
CP4
AV2X2
CP5
S-video
CN8
8P 2.5mm
H1
CIRDIN_9-R
H2
CIRDIN_9-R
VTREK
89E RECEIVER 5.1CH OUTPUT
RF & MPEG
AUDIO & VIDEO OUT
Date: 20, 2005
Sheet 4 of 5


SCL
SDA
A_MUTE
DTS_CE
DTS_DATA
DTS_CL
RDS
MUTE_MIC
FAN
+12V
-12V
VCC
GND
AUD_SL
MUX_L
MUX_R
MICIN
C231 10u
R190 10
MIC
C15 10uF/25v
MIC_L
C47 10uF/25v
MIC_R
R191 100k
C232 22p
VDD3
R192 4.7k
R193 100k
MUTE_MIC
R194 10k
Q33 3906
Q35 3904
R196 1K
R198 100K
-12V
R197 100K
R80 100(NC)
C177 0.1u(NC)
AKIN1
AKIN2
R81 100k(NC)
C178 0.33u(NC)
CN9 4P 2.0mm
CN11 5PIN 2.0
PLLCE
PLLDI_DO
PLLCLK
CN12 4P 2.0mm
TUNER-L
TUNER-R
RDS_MPX
CN13 3PIN 2.0
+12V
MICIN
VCC
R160 10K
R161 10K
R162 10K
R163 10K
R164 10K
R165 10K
R166 220 PLLCE
R167 220 PLLDI_DO
R168 220 PLLCLK
R169 220 DAVN
R170 220 RDSCLK
R171 220 RDSDATA
R158 10K C185 470n TUNER-L
R159 10K C186 470n TUNER-R
U14 SAA6588
MPTH
DAVN
SDA
SCL
PSWN
AFIN
LVIN
SCOUT
CIN
MRO
OSCI
MPXIN
VddA
Vddd
Vref
TCON
MAD
Vssd
VssA
OSCO
C187 330P
+5VA
L41 FB 0805
L42 FB 0805
+C188 2.2U
C189 0.1u
C190 0.1u
+C191 47U
+C192 47U
C193 560P
R172 1K
Y2 4.332MHz
R173 470K
C194 100n
C195 47P
C196 82P
VTREK
1389E RECEIVER 5.1CH
Title
TUNER
Size B
Document Number VTREK89EAM6-11.1
Rev 1.0
Date: , 20, 2005
Sheet 5 of 5


130.0mm





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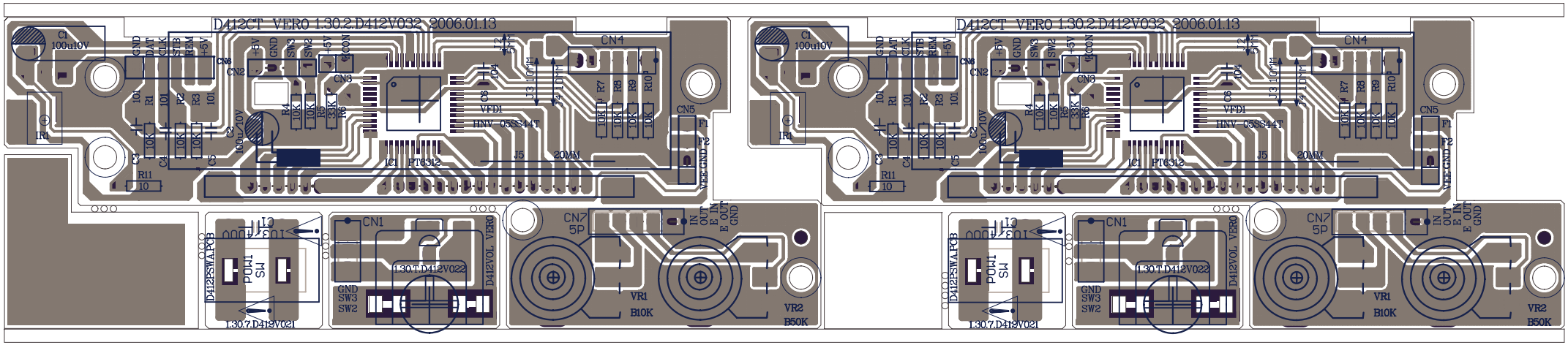
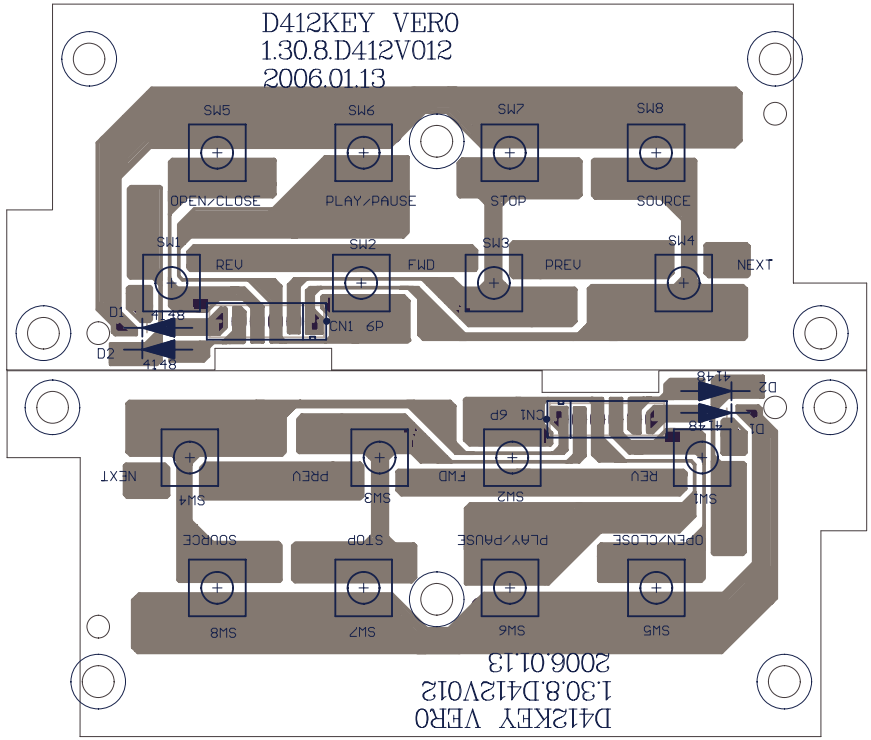
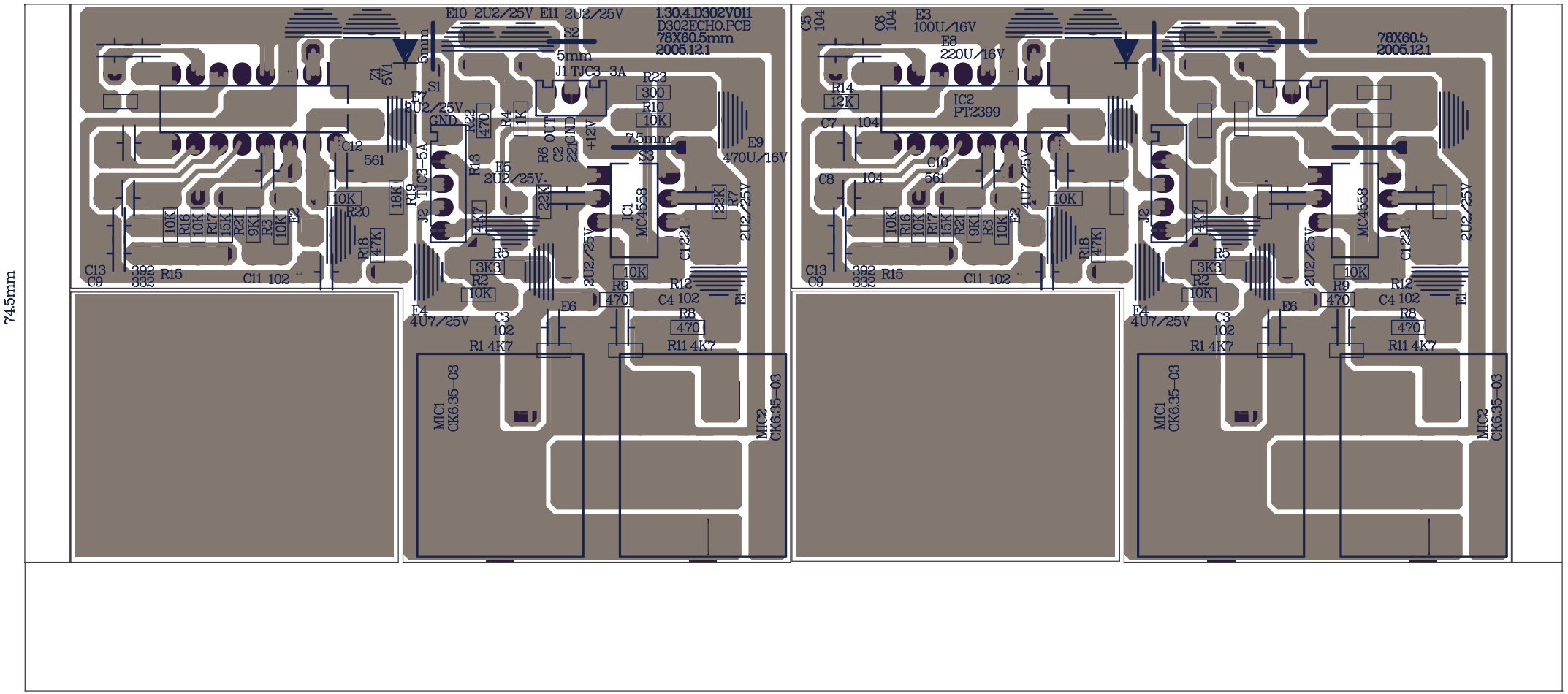
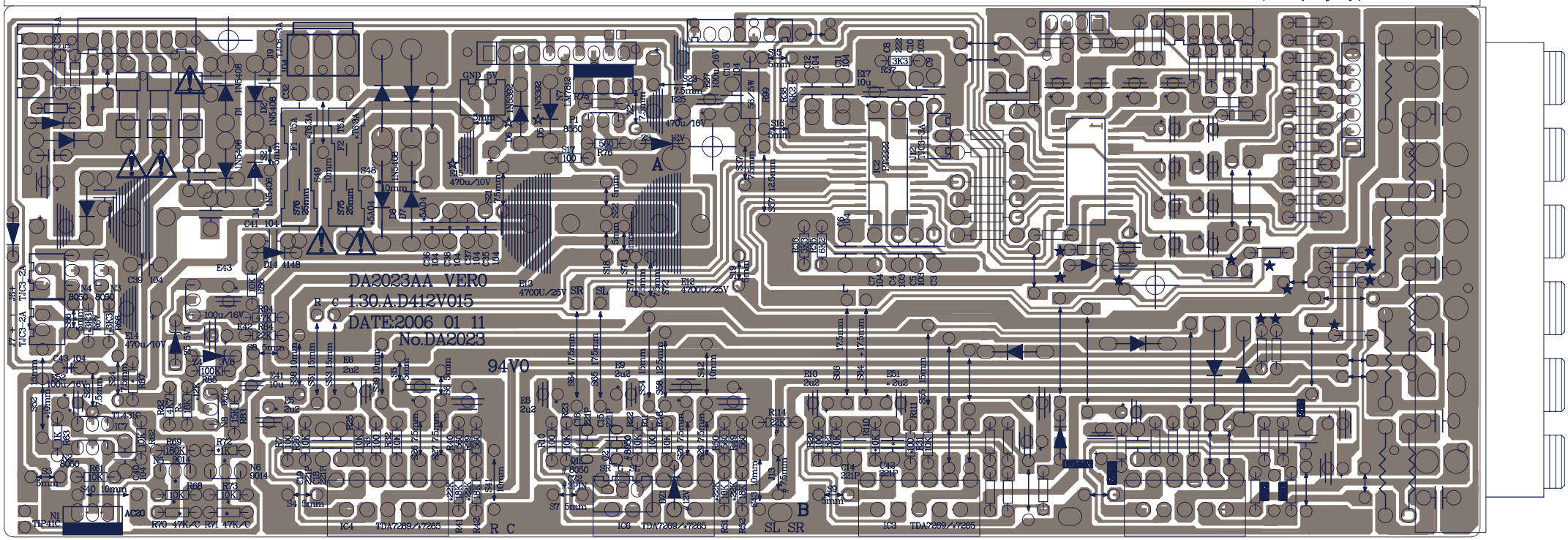

D412CT VER0 1.30.2.D412V032 2006.01.13
D412CT VER0 1.30.2.D412V032 2006.01.13
VFD1
HNV-05SS44T
PT6312
1.30.7.D412V021
1.30.T.D412V022
D412VOL VER0
D412PSWA.PCB
VR1
B10K
VR2
B50K
20MM


D412KEY VER0
1.30.8.D412V012
2006.01.13
SW5
SW6
SW7
SW8
OPEN/CLOSE
PLAY/PAUSE
STOP
SOURCE
SW1
SW2
SW3
SW4
REV
FWD
PREV
NEXT
CN1 6P
D412KEY VER0
1.30.8.D412V012
2006.01.13


74.5mm
166.5mm
1.30.4.D302V011
D302ECH0.PCB
78X60.5mm
2005.12.1
78X60.5
2005.12.1
E10 2U2/25V E11 2U2/25V
S2
5mm
J1 TJC3-3A
S1
Z1
5V1
E7
2U2/25V
GND
OUT
+12V
7.5mm
J3
TJC3-5A
J2
IC1
MC4558
IC2
PT2399
E9
470U/16V
E3
100U/16V
E8
220U/16V
E5
2U2/25V
E4
4U7/25V
E6
C1 221
C2 22U
C3 102
C4 102
C5 104
C6 104
C7 104
C8 104
C9 332
C10 561
C11 102
C12 561
C13 332
R1 4K7
R2 10K
R3 10K
R4 1K
R5 3K3
R6 470
R7 22K
R8 470
R9 470
R10 10K
R11 4K7
R12 10K
R13 4K7
R14 12K
R15 392
R16 10K
R17 15K
R18 47K
R19 18K
R20 10K
R21 9K1
R22 470
R23 300
E2
MIC1
CK6.35-03
MIC2
CK6.35-03

A I 板　孔径请采用喇叭孔处理

。气孔请按照焊盘上的KeepOut层线宽处理　BottomOverlay层丝印阻焊釉。