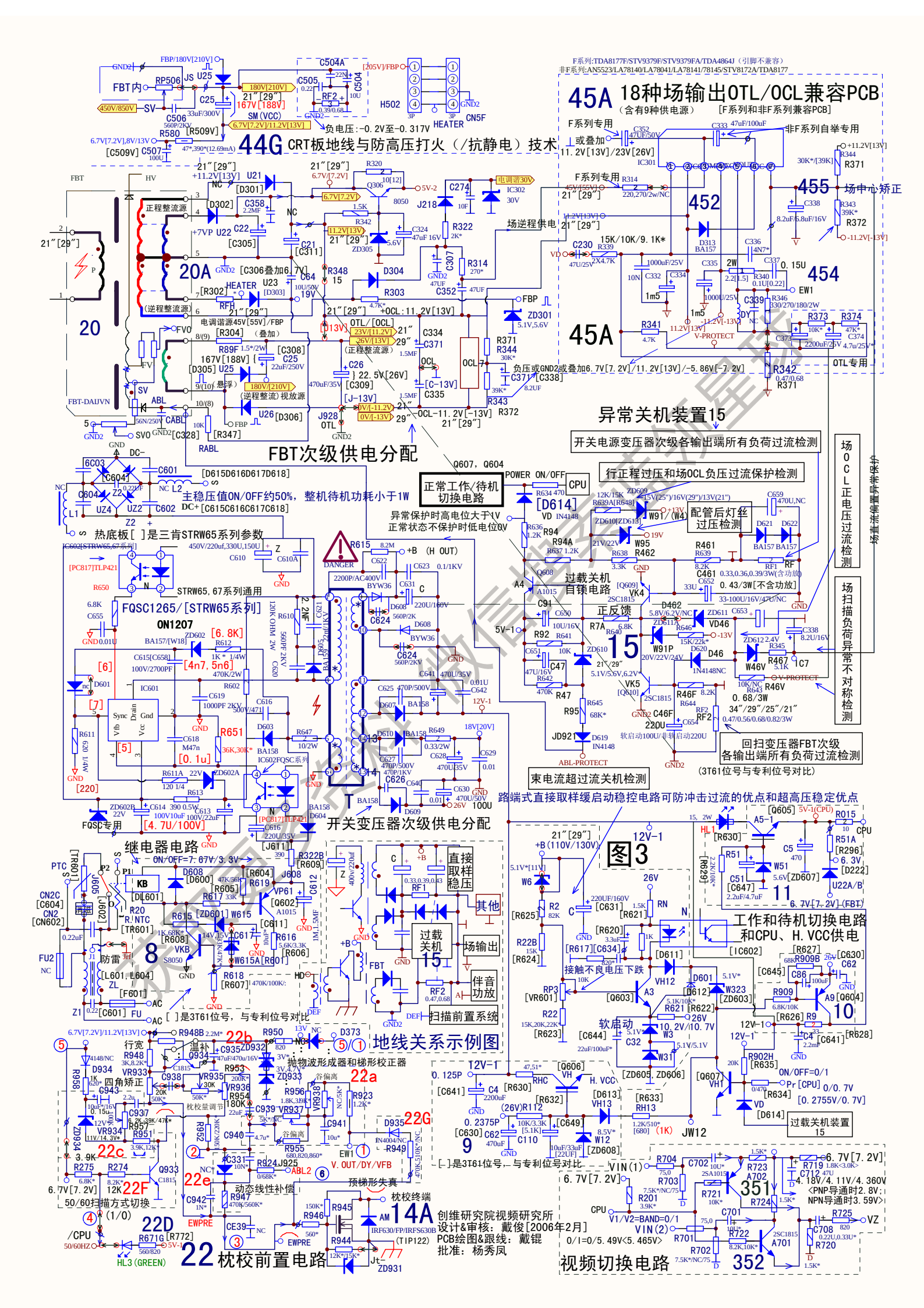
44G CRT板地线与防高压打火（/抗静电）技术
负电压:-0.2V至-0.317V
45A 18种场输出OTL/OCL兼容PCB
（含有9种供电源） [F系列和非F系列兼容PCB]
F系列:TDA8177F/STV9379F/STV9379FA/TDA4864J（引脚不兼容）
非F系列:AN5523/LA78140/LA78041/LA78141/78145/STV8172A/TDA8177
F系列专用
非F系列自举专用
场中心矫正
场逆程供电
20A
20
452
455
454
45A
OTL专用
FBT次级供电分配
异常关机装置15
开关电源变压器次级各输出端所有负荷过流检测
行正程过压和场OCL负压过流保护检测
场OCL正电压过流检测
场扫描负荷异常不对称检测
场直流偏置异常保护
正常工作/待机切换电路
配管后灯丝过压检测
过载关机自锁电路
正反馈
15
回扫变压器FBT次级各输出端所有负荷过流检测
（3T61位号与专利位号对比）
束电流超过流关机检测
路端式直接取样缓启动稳控电路可防冲击过流的优点和超高压稳定优点
主稳压值ON/OFF约50%，整机待机功耗小于1W
热底板[ ]是三肯STRW65系列参数
STRW65,67系列通用
FQSC1265/[STRW65系列]
ON1207
开关变压器次级供电分配
继电器电路
ON/OFF=7.67V/3.3V
8
直接取样稳压
其他
过载关机
15
场输出
伴音功放
扫描前置系统
[ ]是3T61位号，与专利位号对比
地线关系示例图
图3
工作和待机切换电路和CPU、H.VCC供电
11
10
9
22b
22a
22c
22F
22e
22D
22
枕校前置电路
14A
创维研究院视频研究所
设计&审核：戴俊[2006年2月]
PCB绘图&跟线：戴锟
批准：杨秀凤
351
352
视频切换电路
过载关机装置15
[-]是3T61位号，与专利位号对比
50/60扫描方式切换
抛物波形成器和梯形校正器
枕校量调节
动态线性补偿
预梯形失真
枕校终端
V. OUT/DY/VFB
ABL2
EWPRE
ZD931
HL3 (GREEN)
ABL-PROTECT
V-PROTECT
OTL/[OCL]
OCL-11.2V[-13V]
OCL:11.2V[13V]
负压或GND2或叠加6.7V[7.2V]/11.2V[13V]/-5.86V[-7.2V]
电调谐源45V[55V]/FBP
（叠加）
（正程整流源）
（逆程整流源）
（逆程整流）视放源
正程整流源
FBT内
FBT-DAIJVN
H502
CN5F
HEATER
POWER ON/OFF
CPU
[D614]
DANGER
(H OUT)
软启动100U/非软启动220U
FQSC专用
[4.7U/100V]
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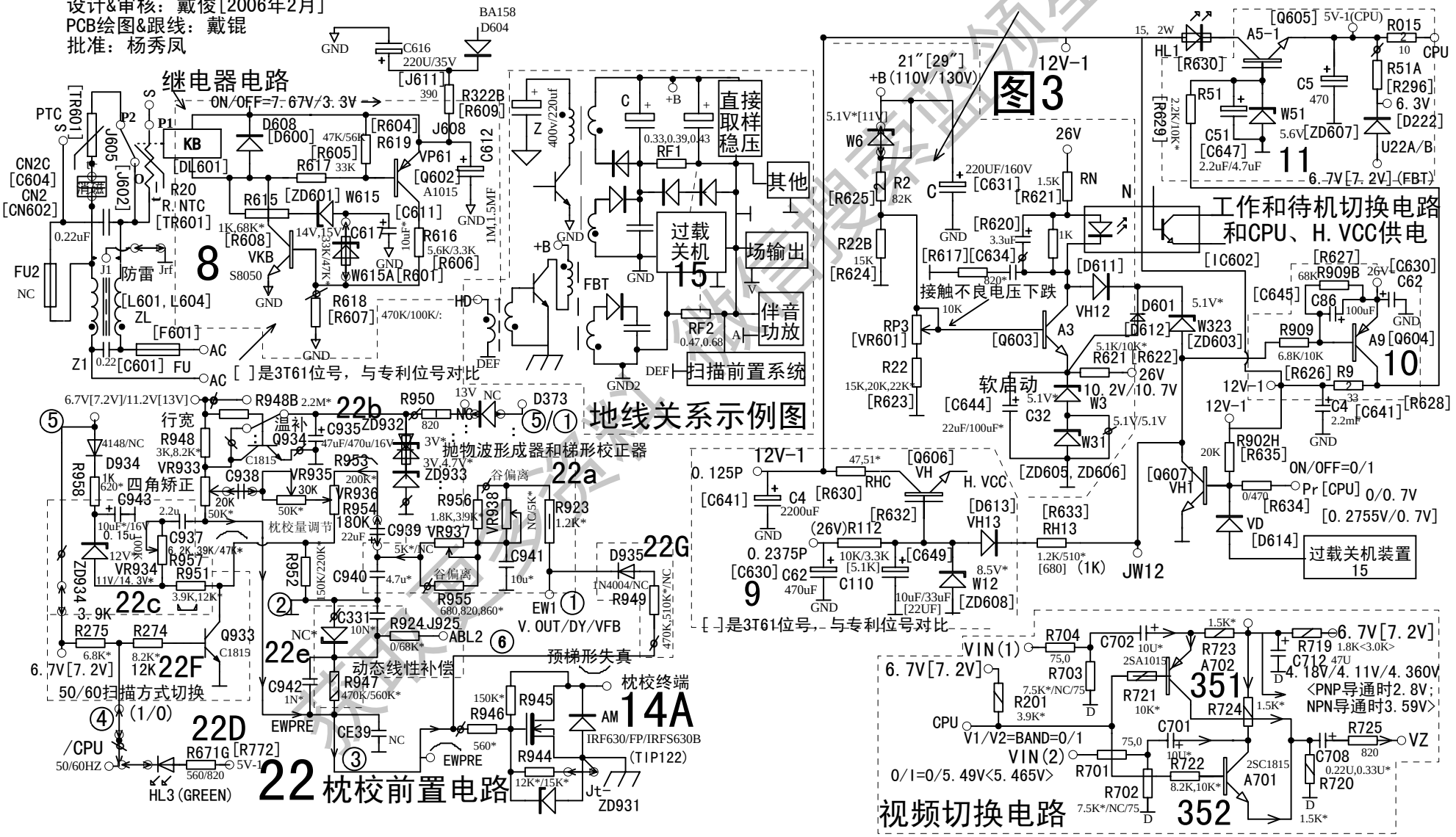
创维研究院视频研究所
设计&审核：戴俊[2006年2月]
PCB绘图&跟线：戴锟
批准：杨秀凤

路端式直接取样缓启动稳控电路可防冲击过流的优点和超高压稳定优点



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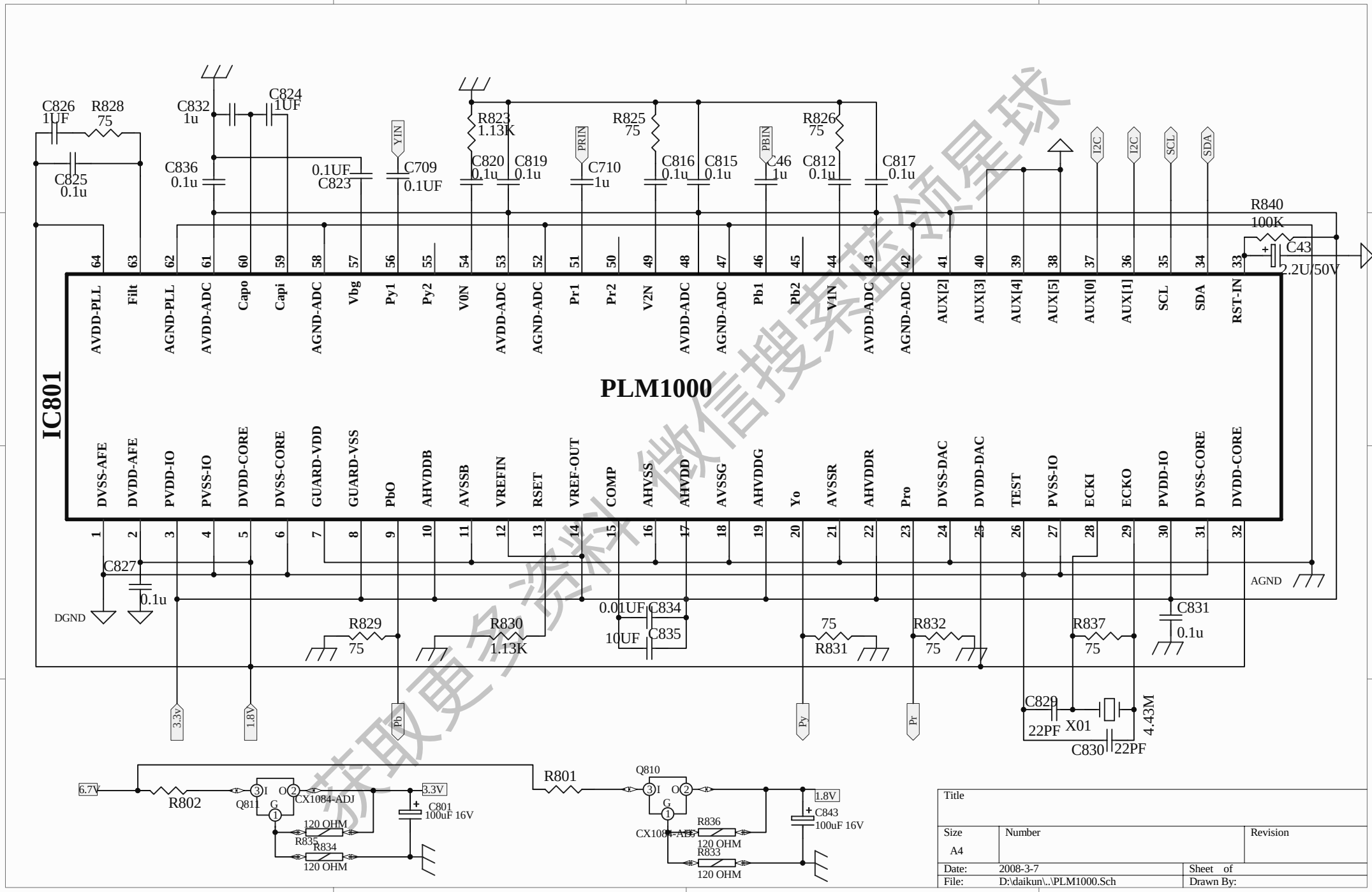

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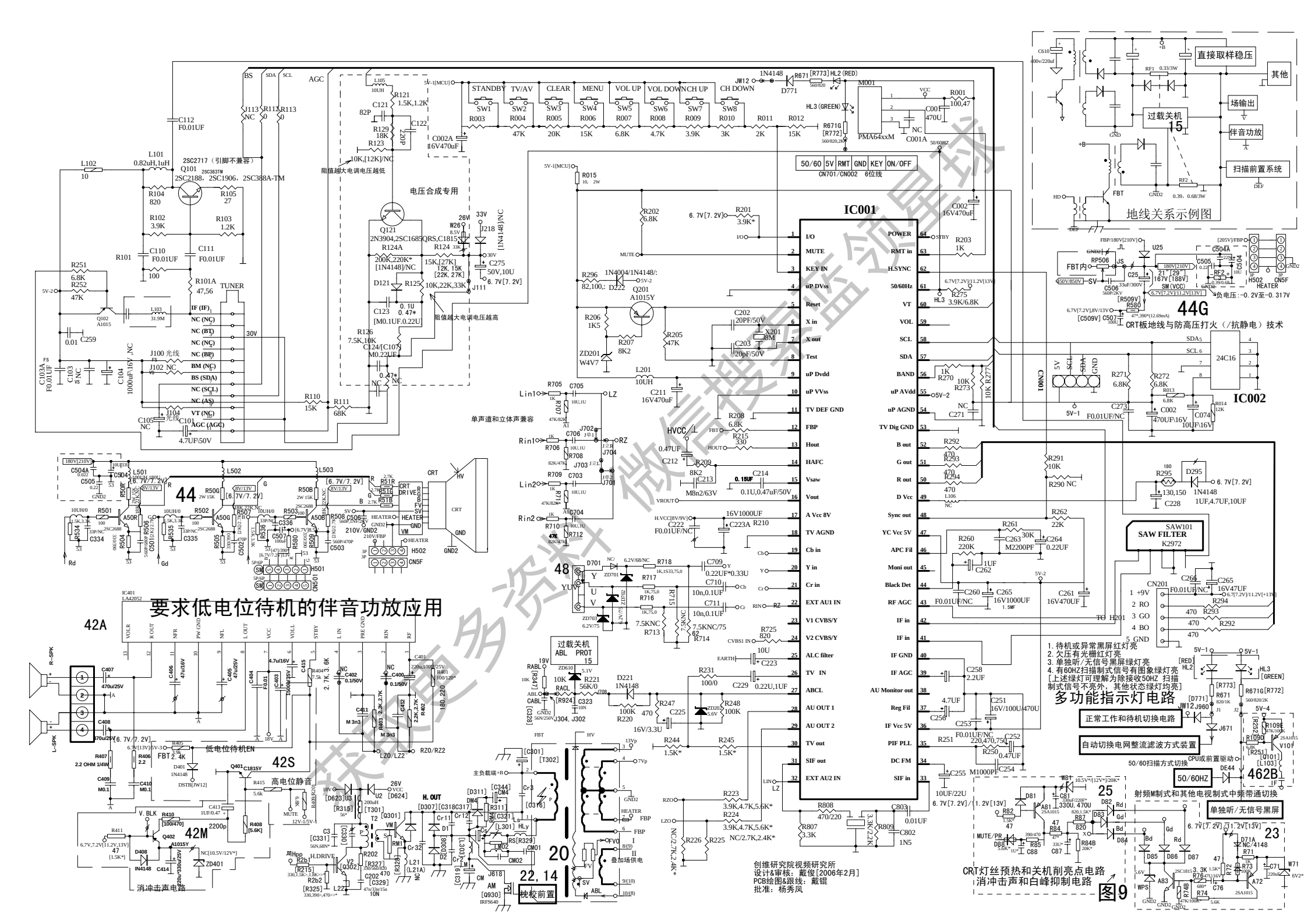
IC001
IC002
44
44G
42A
42S
42M
48
20
22, 14
15
25
23
462B
要求低电位待机的伴音功放应用
多功能指示灯电路
地线关系示例图
CRT灯丝预热和关机削亮点电路
消冲击声和白峰抑制电路
图9
创维研究院视频研究所
设计&审核：戴俊[2006年2月]
PCB绘图&跟线：戴锟
批准：杨秀凤
直接取样稳压
其他
场输出
伴音功放
扫描前置系统
过载关机
SAW101
SAW FILTER
K2972
24C16
HEATER
CRT板地线与防高压打火（/抗静电）技术
负电压：-0.2V至-0.317V
单声道和立体声兼容
阻值越大电调电压越低
阻值越大电调电压越高
电压合成专用
低电位待机EN
高电位静音
消冲击声电路
枕校前置
正常工作和待机切换电路
自动切换电网整流滤波方式装置
50/60扫描方式切换
CPU或前置驱动
50/60HZ
射频M制式和其他电视制式中频带通切换
单独听/无信号黑屏
1. 待机或异常黑屏红灯亮
2. 欠压有光栅红灯亮
3. 单独听/无信号黑屏绿灯亮
4. 有60HZ扫描制式信号有图象绿灯亮
[上述绿灯可理解为除接收50HZ 扫描制式信号不亮外，其他状态绿灯均亮]
50/60 5V RMT GND KEY ON/OFF
CN701/CN002 6位线
STANDBY TV/AV CLEAR MENU VOL UP VOL DOWN CH UP CH DOWN
PMA64xxM
SAW FILTER
CRT DRIVER
HEATER
210V/GND2
CN5F
H502
H501
CN501
CN201
H201
TG
CN001
SM(VCC)
FBT内
FBT
SV
RP506
U25
C504A
C505
C506
R509V
R580
C509V
C507
H502
HEATER
CN5F
C273
F0.01UF/NC
C002
470UF/16V
10UF/16V
C074
R014
12K
R013
6.8K
R271
6.8K
R272
6.8K
R295
180
D295
1N4148
1UF,4.7UF,10UF
C228
130,150
R291
10K
R290 NC
R292
470
R293
470
R294
470
R262
22K
R261
30K
C263
M2200PF
C264
0.22UF
R260
220K
C262
1UF
C260
F0.01UF/NC
C265
16V1000UF
C261
16V470UF
C266
C265
16V47UF
R294
470
R293
470
R292
470
CN201
1 +9V
2 RO
3 GO
4 BO
5 GND
F0.01UF/NC
6.7[7.2V]/11.2V[+13V]
HL3 [GREEN]
R671[R772]
560/820/2K
D771
JW12 J960
J671
R109E
R109D
V101
R251
R250
0.47UF
C252
C254
C255
10UF/22U
6.7V[7.2V]/11.2V[13V]
M1000PF
R251
220,470,750
F0.01UF/NC
C253
4.7UF
C251
16V/100U/470U
C258
2.2UF
C256
R256
R257
R109E
R109D
V101
[R251]
[Q101]
[L103]
462B
DE44
50/60HZ
CPU或前置驱动
50/60扫描方式切换
W81
10.5V*[12V*]20K*
C81
330uF/220F*
330U, 470U
820,1.5K*
R87
820
R84
47*
330U*
C87
R84B
20K*
R82
47
1.5K*
D81
A81
2SA1015
MUTE/PR
390/470
R85
C88
D88
5.6K*
1U*
D82
D83
D84
Rd
Gd
Bd
D85
D86
D87
D71A
NC/4148
R71
47
1K
R72
R73
100K
C71
220uF
W71
6V2*
A83
A72
2SA1015
2SC1815
3.3K
1.5K*
R76
470/16V
680*
R74B
R74
47K/100K*
5.6K
C76
WPS
GND2
5.6V
6.7V[7.2V]/11.2V[13V]
R101
R101A
47,56
TUNER
IF (IF)
NC (NC)
NC (BT)
NC (NC)
NC (BP)
BM (NC)
BS (SDA)
NC (SCL)
NC (AS)
VT (NC)
AGC (AGC)
J100 光线
J102 NC
J104 光线
C105 NC
C101
4.7UF/50V
C259
0.01
C103A F0.01UF
C103 NC
C104 1000uF/16V
L102 10
L101 0.82uH,1uH
Q101 2SC2717（引脚不兼容）
2SC2188，2SC1906，2SC388A-TM
2SC383TM
R104 820
R105 27
R102 3.9K
R103 1.2K
C110 F0.01UF
C111 F0.01UF
R251 6.8K
R252 47K
5V-2
Q102 A1015
L103 31.9M
R110 15K
R111 68K
30V
C112 F0.01UF
BS SDA SCL
AGC
J113 NC
R112 0
R113 0
L105 10UH
R121 1.5K,1.2K
C121 82P
R129 18K
R123
C122 20P
C002A 16V470uF
Q121 2N3904,2SC1685
R124A 200K,220K*
[1N4148]/NC
D121
R125 10K,22K,33K
R126 7.5K,10K
C124/[C107] M0.22UF
C123 0.1U 0.47*
[M0.1UF.0.22U]
0.47* NC
R124 33K
15K,[27K] 12K 15K [22K, 27K]
QRS,C1815
26V W26 8.5V
33V J218
30V
C275 50V,10U
6. 7V[7. 2V]
J111
[1N4148]/NC
STANDBY SW1 R003 47K
TV/AV SW2 R004 20K
CLEAR SW3 R005 15K
MENU SW4 R006 6.8K
VOL UP SW5 R007 4.7K
VOL DOWN SW6 R008 3.9K
CH UP SW7 R009 3K
CH DOWN SW8 R010 2K
R011 R012 15K
JW12 1N4148 D771
R671 [R773] HL2 (RED)
560/820
HL3 (GREEN)
R671G [R772]
560/820,2K
M001
VCC
R001 100,47
C001 470U
NC
C001A
50/60HZ
R015 10, 2W
R202 6.8K
6. 7V[7. 2V]
R201 3.9K*
I/O
MUTE
R296 82,100,:
1N4004/1N4148/:
D222
Q201 A1015Y
R206 1K5
R207 8K2
ZD201 W4V7
R205 47K
C202 20PF/50V
X201 8M
C203 20pF/50V
L201 10UH
C211 16V470uF
R203 1K
6.7V[7.2V]/11.2V[13V]
R275 3.9K/6.8K
HL3
R270 1K
R273 10K
R277 10K
NC
C271
R208 6.8K
R215 330
HVCC
0.47UF
C212
R209 8K2
C213 M8n2/63V
C214 0.1U,0.47uF/50V
0.15UF
VROUT
H.VCC[8V/9V]
C222 F0.01UF/NC
16V1000UF
C223A
R210
R705 1K
C705 10U,1U
LZ
R707 47K/82K
Lin1
Rin1
R706 1K
C706 10U,1U
82K/47K
RZ
J702
J703
J704
J701
R709 1K
C703 10U,1U
Lin2
R714 47K/82K
R710 1K
C704 10U,1U
Rin2
R712 47K/82K
D701 NC/
ZD701 6.2V/68/NC
R718 1K,1S33,75,0
C709 0.22UF*0.33U
R717 1K,75,0
C710 10n,0.1UF
R716 1K,75,0
C711 10n,0.1UF
ZD702 6.2V/75
7.5KNC R713
7.5K NC
7.5KNC/75 62 R714
R715
R725 820
CVBS1 IN
EARTH
10U
C223
RABL
ZD610 5.1V
R221 56K/0
RACL
R924
C323 10N
CABL
GND2
J304, J302
D221 1N4148
100K R220
470
R247
C225
16V/3.3U
R231 100/0
C229 0.22U,1UF
ZD201 5.6V
R248 100K
R244 1.5K*
R245 1.5K*
R223 3.9K,4.7K,5.6K*
R224 3.9K,4.7K,5.6K*
NC/2.7K,2.4K*
R226
R225
R808 470/220
R807 3.3K
R809 3.3K/2.7K
C803 0.01UF
C802 1N5
R243 1.5K*
R242 1.5K*
R241 1.5K*
R240 1.5K*
R407 2.2 OHM 1/4W
R406 2.2
C407 470u/25V
C408 470u/25V
C409 M0.1
C410 M0.1
R405 3.9K
FBT 2.4K
D401 1N4148
DSTB[JW12]
Q401 C1815Y
R415 5.6K
R409 3K9
MUTE
12V-1/5V-1
R408 [5.6K]
C413 1UF/0.47
2200p
V. BLK
R410 [100/470]
R411 47 [1.5K*]
Q402 A1015Y
D408 IN4148
C414 330U/25V
ZD401
NC[10.5V/12V*]
C404 F0.01
IC403 1500u/25V
C415 4.7u/16V
R404 2.7K 5.6K
C405 470u/25V
C406 47u/16V
C401 220u,100u/25V
R401 100/120*
R402 180,220
R403 2.2K,2.7K
C411 M 3n3
C412 2.2K,2.7K
M 3n3
NC
C402 0.1/50V
C400 0.1/50V
RZ0/RZ2
LZ0/LZ2
R-SPK
L-SPK
C406 47u/16V
C405 470u/25V
C404 F0.01
IC403 1500u/25V
C415 4.7u/16V
R404 2.7K 5.6K
C401 220u,100u/25V
R401 100/120*
R402 180,220
R403 2.2K,2.7K
C411 M 3n3
C412 2.2K,2.7K
M 3n3
NC
C402 0.1/50V
C400 0.1/50V
RZ0/RZ2
LZ0/LZ2
[C301] [T302]
主负载端+B
Cr3
[C316]
[D311]
CM4
[C344]
R311
[C331]
[L301] HLy
RS[R329]
CM01
CM02
H. OUT
[D307] [C318C317]
Cr11
Cr12
D1
D308
D2
Cr7
[C319]
CM
J618
AM
[Q930]
IRFS640
[D623] U3
[R315]
26V
U2 [D624]
VCC
T2
[T301]
[Q301]
VM
RM1
Cr32
R202
[R327]
250/500/620
C202 470
[C329]
47u/30u/15u
10N
L21
[L21A]
NC
R328
H.DRIVE
V2
[Q302]
R2b1
[R215]
330,1.5K>-1.8K>+
R2b2
[R325]
330,390*,470>-*
L22
C3
[C331]
56N,68N*
[C330]
P
S
T
FV
SV
ABL
HV
13Vp
7Vp
GND2
HEATER
FBP
FVO
I
II
9(10)
10(8)
叠加场供电
[C301]
[T302]
主负载端+B
Cr3
[C316]
[D311]
CM4
[C344]
R311
[C331]
[L301] HLy
RS[R329]
CM01
CM02
H. OUT
[D307] [C318C317]
Cr11
Cr12
D1
D308
D2
Cr7
[C319]
CM
J618
AM
[Q930]
IRFS640
[D623] U3
[R315]
26V
U2 [D624]
VCC
T2
[T301]
[Q301]
VM
RM1
Cr32
R202
[R327]
250/500/620
C202 470
[C329]
47u/30u/15u
10N
L21
[L21A]
NC
R328
H.DRIVE
V2
[Q302]
R2b1
[R215]
330,1.5K>-1.8K>+
R2b2
[R325]
330,390*,470>-*
L22
C3
[C331]
56N,68N*
[C330]
P
S
T
FV
SV
ABL
HV
13Vp
7Vp
GND2
HEATER
FBP
FVO
I
II
9(10)
10(8)
叠加场供电
[C301]
[T302]
主负载端+B
Cr3
[C316]
[D311]
CM4
[C344]
R311
[C331]
[L301] HLy
RS[R329]
CM01
CM02
H. OUT
[D307] [C318C317]
Cr11
Cr12
D1
D308
D2
Cr7
[C319]
CM
J618
AM
[Q930]
IRFS640
[D623] U3
[R315]
26V
U2 [D624]
VCC
T2
[T301]
[Q301]
VM
RM1
Cr32
R202
[R327]
250/500/620
C202 470
[C329]
47u/30u/15u
10N
L21
[L21A]
NC
R328
H.DRIVE
V2
[Q302]
R2b1
[R215]
330,1.5K>-1.8K>+
R2b2
[R325]
330,390*,470>-*
L22
C3
[C331]
56N,68N*
[C330]
P
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FV
SV
ABL
HV
13Vp
7Vp
GND2
HEATER
FBP
FVO
I
II
9(10)
10(8)
叠加场供电
L501
L502
L503
R501
R502
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R504
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