SIGNAL SCHEMATIC (4 OF 18)

361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380

A B C D E F G H I J K L

SCHEMATIC NOTES
1. RESISTANCE VALUES ARE IN OHMS; K=X1000, Meg=X1,000,000.
   RESISTORS ARE 0.250W 5%, EXCEPT WHERE INDICATED.
   [ ] INDICATES FLAT MAXI-CHIP COMPONENT, 1/8W EXCEPT WHERE INDICATED.
   / \ INDICATES FLAT MINI-CHIP COMPONENT, 1/16W EXCEPT WHERE INDICATED.
2. CAPACITANCE VALUES 1.0 AND ABOVE ARE IN pF, VALUES BELOW 1.0 ARE IN µ
   EXCEPT WHERE INDICATED. VOLTAGE RATING IS 50V EXCEPT WHERE INDICATED.
   [ ] INDICATES FLAT MAXI-CHIP COMPONENT.
   / \ INDICATES FLAT MINI-CHIP COMPONENT.
   \ / INDICATES FLAT MINI-CHIP COMPONENT.
3. ⏚ DENOTES CHASSIS GROUND. ⊛ INDICATES CONNECTION VIA POINT-TO-POINT WIRE.
   ⏚ DENOTES ISOLATED GROUND.
   —INDICATES JUMPER WIRE.
   —INDICATES ZERO OHM CHIP COMPONENT.

SERVICE NOTICE

ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTORS ARE ELECTROSTATICALLY SENSITIVE AND REQUIRE SPECIAL HANDLING TECHNIQUES DESCRIBED UNDER "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" IN THE SAFETY AND SERVICING PRECAUTIONS PUBLICATION.

PRODUCT SAFETY NOTE
COMPONENTS WITH A ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THIS SERVICE DATA. DO NOT DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.

JV105 0
+1V8_UC <60-J>
LV100 10u0
LV110 10u0
CV100 47U0 16V
CV110 47U0 16V
CV140 15P0
CV141 15P0
QV140 20M25
CV101 100N0 16V
CV102 100N0 16V
CV105 100N0 16V
CV103 100N0 16V
CV104 100N0 16V
JV120 0
JV130 0
+3V3_UC <60-I>
CV123 100N0 16V
CV122 100N0 16V
CV121 100N0 16V
CV131 100N0 16V
CV132 100N0 16V
CV133 100N0 16V
CV134 100N0 16V
CV135 100N0 16V
CV130 47U0 16V

PART OF IV100
VSP9407B-VK-C1
XOUT XIN VDDAPLL VSSAPLL VDDAC2 VSSAC2 VDDAC1 VSSAC1 VDDAFBL VSSAFBL TCLK TMS VDDP1 VSSP1 VDDP2 VSSP2 VDDP3 VSSP3
VDD1 VSS1 VDD2 VSS2 VDD3 VSS3 VDD4 VSS4
VDD33C VSS33C VDD33RGB VSS33RGB VDDDACY VSSDACY VDDDACU VSSDACU VDDDACV VSSDACV
RESET SCL SDA ADR/TDI H50/IRQ CLKOUT VOUT HOUT Yout Uout Vout V50/BLANK VSS/SISCAN

RESET_DMU#
IIC_CL_3
RV150 100R0
IIC_DA_3
RV151 100R0
INT_DMU

VOLTAGE CHART

VSM
FB_OSD
+9VrSI <60-A>
RV350 100R0
TV350 BC846B
3.0V RV351 392R0 (475R0) 1% 2.4V
R_PSI
RV352 182R0 (150R0) 1%
+9VrSI <60-A>
RV360 100R0
TV360 BC846B
3.0V RV361 392R0
G_PSI
RV362 182R0 1%
+9VrSI <60-A>
RV370 100R0
TV370 BC846B
2.9V RV371 392R0 (475R0) 1% 2.3V
B_PSI
RV372 182R0 (150R0) 1%

Y_UC
RV170 470R0
CV170 0 0.76V
TV171 BC856B 1.4V
RV171 1K5
+9VrSI <60-A>
U_UC
RV180 470R0
CV180 0 0.89V
TV181 BC856B 1.5V
RV181 1K5
+9VrSI <60-A>
V_UC
RV190 470R0
CV190 0 0.89V
TV191 BC856B 1.5V
RV191 1K5
+9VrSI <60-A>

CV172 100N0 16V
CV182 100N0 16V
CV192 100N0 16V
CV200 100N0 16V
CV201 100N0 16V
CV202 100N0 16V
Y1IN PB1IN PR1IN Y2IN PB2IN PR2IN
Clamp/input select YUV/RGB/PP

IV300
TA1360AFG
Y-processing: black stretch, dynamic gamma, LTI, group delay correction, sharpness, half tone
BSVM
Matrix
UV-processing: flesh color, green stretch, tint, CTI, color, gamma, half tone
RGB processing: input select, blending, blue stretch cutoff, drive, black current
Deflection processing: H sync processing (15.75kHz-45kHz) V sync processing (525i/p-1125i/p) 2/3-level sync separator, DAC's, HD/VD input, copy guard, V-blanking
I2C bus decoder
SCL SDA I2L VDD I2L GND

HDFL
VDFL
IIC_CL_2
IIC_DA_2
RV250 100R0
RV251 100R0
CV250 10P0
CV251 10P0
RV220 220R0
DV220 GDZ2.0B
CV220 100N0 16V
+9VrSI <60-A>
RV211 100R0
RV212 100R0
RV213 100R0
CV215 100N0 16V
Y2H CB2H CR2H
HFB

CV281 470N0 25V
CV283 470N0 25V
CV285 2U2
CV290 2U2
CV291 10N0
CV292 10N0
CV293 10N0
CV294 10N0
CV295 10N0
CV296 10N0
CV297 10N0
CV280 1U0
RV296 39K0
RV297 1K5
CV213 10P0
CV212 10P0
CV211 10P0
JV260 0
RV260 10N0
CV265 10N0
RV261 0
CV266 100N0 16V
CV268 10N0
CV270 10N0
CV271 10N0
CV272 10N0
JV300 0
CV301 100N0 16V
CV302 100N0 16V
CV303 100N0 16V
CV300 47U0 16V