Legend GM2115 LCD CONTROLLER BOARD SCHEMATICS

CONTENTS

REVISION HISTORY

Date	Author	Ver	Comments
5/13/03	Rick	A	
5/19/03	Rick	B	A. LED控制訊號反向 B. 7414 Power & Ground 未連線

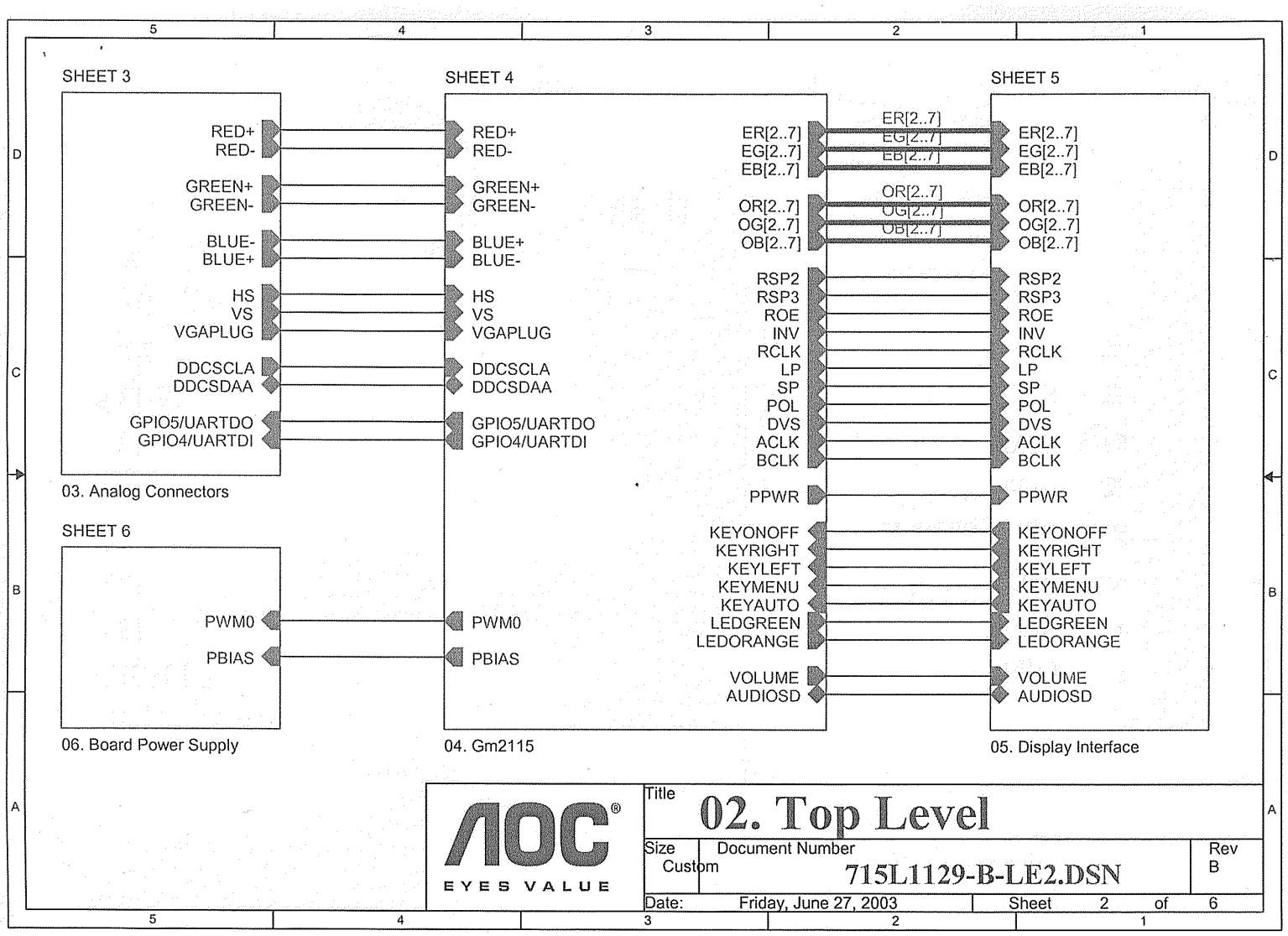
Approval	Organization	Signature	Date

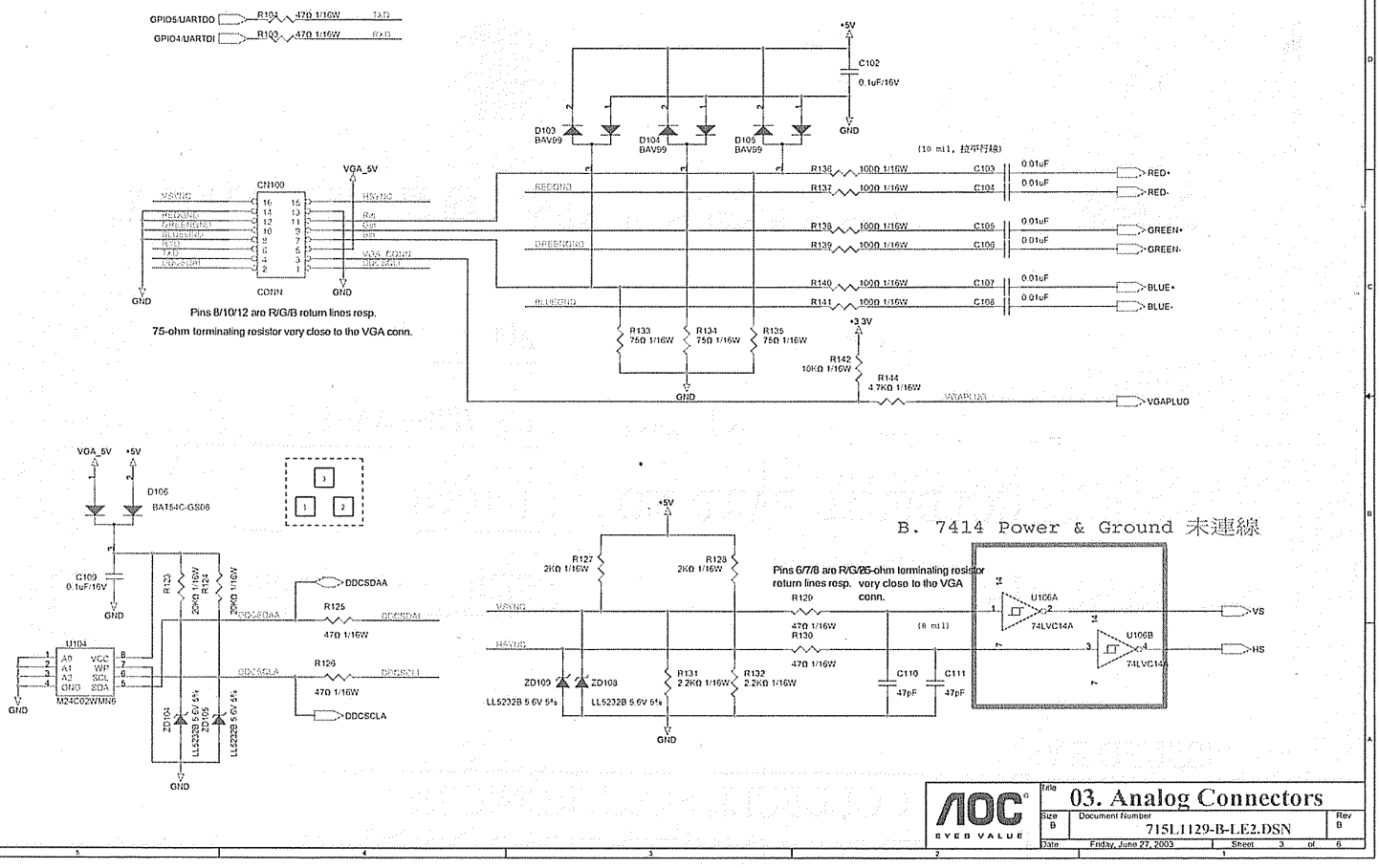
AOC EYES VALUE

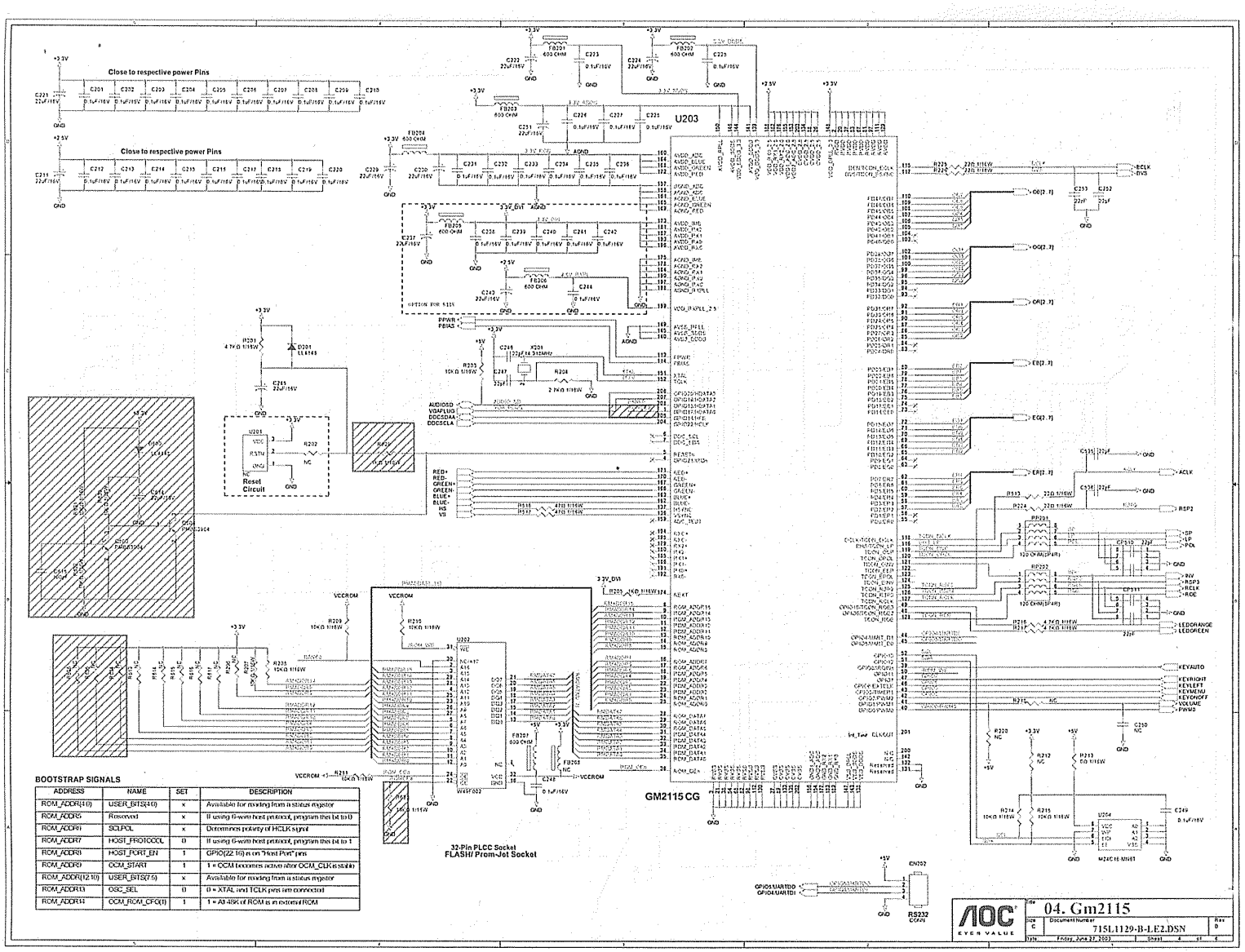
Title: 01. Contents

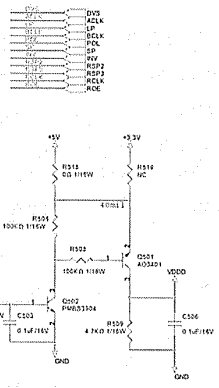
Size: A | Document Number: 715L1129-B-LE2.DSN | Rev: B

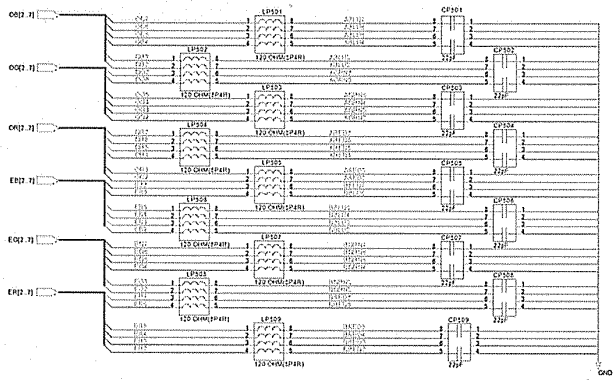
Date: Friday, June 27, 2003 | Sheet 1 of 6

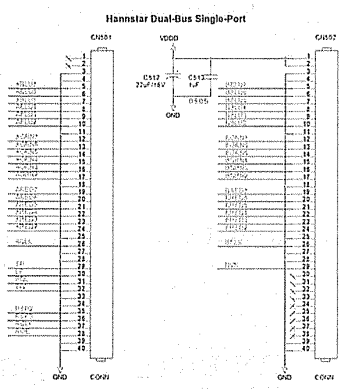

SHEET 3
RED+
RED-
GREEN+
GREEN-
BLUE-
BLUE+
HS
VS
VGAPLUG
DDCSCLA
DDCSDAA
GPIO5/UARTDO
GPIO4/UARTDI
03. Analog Connectors
SHEET 6
PWM0
PBIAS
06. Board Power Supply
SHEET 4
RED+
RED-
GREEN+
GREEN-
BLUE+
BLUE-
HS
VS
VGAPLUG
DDCSCLA
DDCSDAA
GPIO5/UARTDO
GPIO4/UARTDI
PWM0
PBIAS
04. Gm2115
ER[2..7]
EG[2..7]
EB[2..7]
OR[2..7]
OG[2..7]
OB[2..7]
RSP2
RSP3
ROE
INV
RCLK
LP
SP
POL
DVS
ACLK
BCLK
PPWR
KEYONOFF
KEYRIGHT
KEYLEFT
KEYMENU
KEYAUTO
LEDGREEN
LEDORANGE
VOLUME
AUDIOSD
SHEET 5
ER[2..7]
EG[2..7]
EB[2..7]
OR[2..7]
OG[2..7]
OB[2..7]
RSP2
RSP3
ROE
INV
RCLK
LP
SP
POL
DVS
ACLK
BCLK
PPWR
KEYONOFF
KEYRIGHT
KEYLEFT
KEYMENU
KEYAUTO
LEDGREEN
LEDORANGE
VOLUME
AUDIOSD
05. Display Interface
AOC
EYES VALUE
Title
02. Top Level
Size
Custom
Document Number
715L1129-B-LE2.DSN
Rev
B
Date:
Friday, June 27, 2003
Sheet
2
of
6


GPIO5/UARTDO
R104 470 1/16W TXD
GPIO4/UARTDI
R103 470 1/16W RXD
CN100
VSYNC
HSYNC
RED/CR
GREEN/PR
BLUE/PB
SCL
SDA
DDCSCLA
DDCSDAA
CONN
GND
VGA_5V
Pins 8/10/12 are R/G/B return lines resp.
75-ohm terminating resistor very close to the VGA conn.
+5V
C102
0.1uF/16V
D103 BAV99
D104 BAV99
D105 BAV99
R138 100Ω 1/16W
R137 100Ω 1/16W
R139 100Ω 1/16W
R140 100Ω 1/16W
R141 100Ω 1/16W
C103 0.01uF
C104 0.01uF
C105 0.01uF
C106 0.01uF
C107 0.01uF
C108 0.01uF
RED+
RED-
GREEN+
GREEN-
BLUE+
BLUE-
R133 75Ω 1/16W
R134 75Ω 1/16W
R135 75Ω 1/16W
+3.3V
R142 10KΩ 1/16W
R144 4.7KΩ 1/16W
VGAPLUG
VGA_5V
+5V
D106 BAT54C-GS08
C109 0.1uF/16V
R123 2KΩ 1/16W
R124 2KΩ 1/16W
R125 470 1/16W
R126 470 1/16W
U104
M24C02WMN6
ZD104 LL5232B 5.6V 5%
ZD105 LL5232B 5.6V 5%
R127 2KΩ 1/16W
R128 2KΩ 1/16W
R129 470 1/16W
R130 470 1/16W
(8 mil)
ZD109 LL5232B 5.6V 5%
ZD108 LL5232B 5.6V 5%
R131 2.2KΩ 1/16W
R132 2.2KΩ 1/16W
C110 47pF
C111 47pF
Pins 6/7/8 are R/G/B 75-ohm terminating resistor return lines resp. very close to the VGA conn.
U106A
U106B
74LVC14A
VS
HS
B. 7414 Power & Ground 未連線
AOC
EYES'S VALUE
Title
03. Analog Connectors
Size B
Document Number
715L1129-B-LE2.DSN
Rev B
Date
Friday, June 27, 2003
Sheet 3 of 6

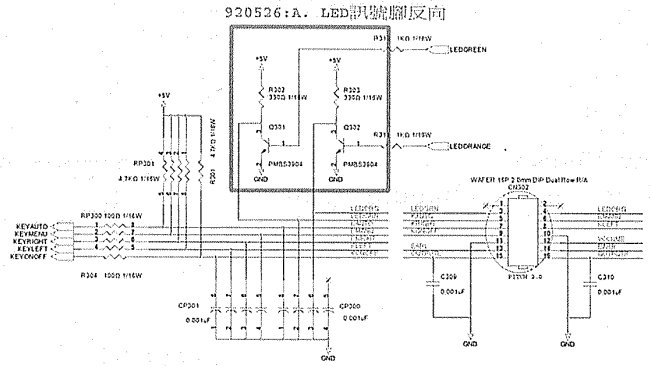

Close to respective power Pins
Close to respective power Pins
U203
GM2115CG
Reset Circuit
32-Pin PLCC Socket
FLASH/ Prom-Jet Socket
BOOTSTRAP SIGNALS
ADDRESS | NAME | SET | DESCRIPTION
ROM_ADDR(4:0) | USER_BITS(4:0) | x | Available for reading from a status register
ROM_ADDR5 | Reserved | x | If using 6-wire host protocol, program this bit to 0
ROM_ADDR6 | SCLPOL | x | Determines polarity of HCLK signal
ROM_ADDR7 | HOST_PROTOCOL | 0 | If using 6-wire host protocol, program this bit to 1
ROM_ADDR8 | HOST_PORT_EN | 1 | GPIO[22:16] is on "Host Port" pins
ROM_ADDR9 | OCM_START | 1 | 1 = OCM becomes active after OCM_CLK is stable
ROM_ADDR(12:10) | USER_BITS(7:5) | x | Available for reading from a status register
ROM_ADDR13 | OSC_SEL | 0 | 0 = XTAL and TCLK pins are connected
ROM_ADDR14 | OCM_ROM_CFG(1) | 1 | 1 = All 48K of ROM is an external ROM
Title: 04. Gm2115
Size: C
Document Number: 715L1129-B-L.E2.DSN
Rev: B
Date: Friday, June 27, 2003
Sheet 4 of 6

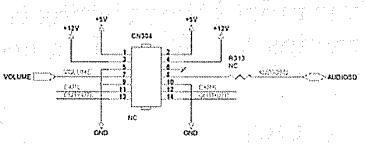




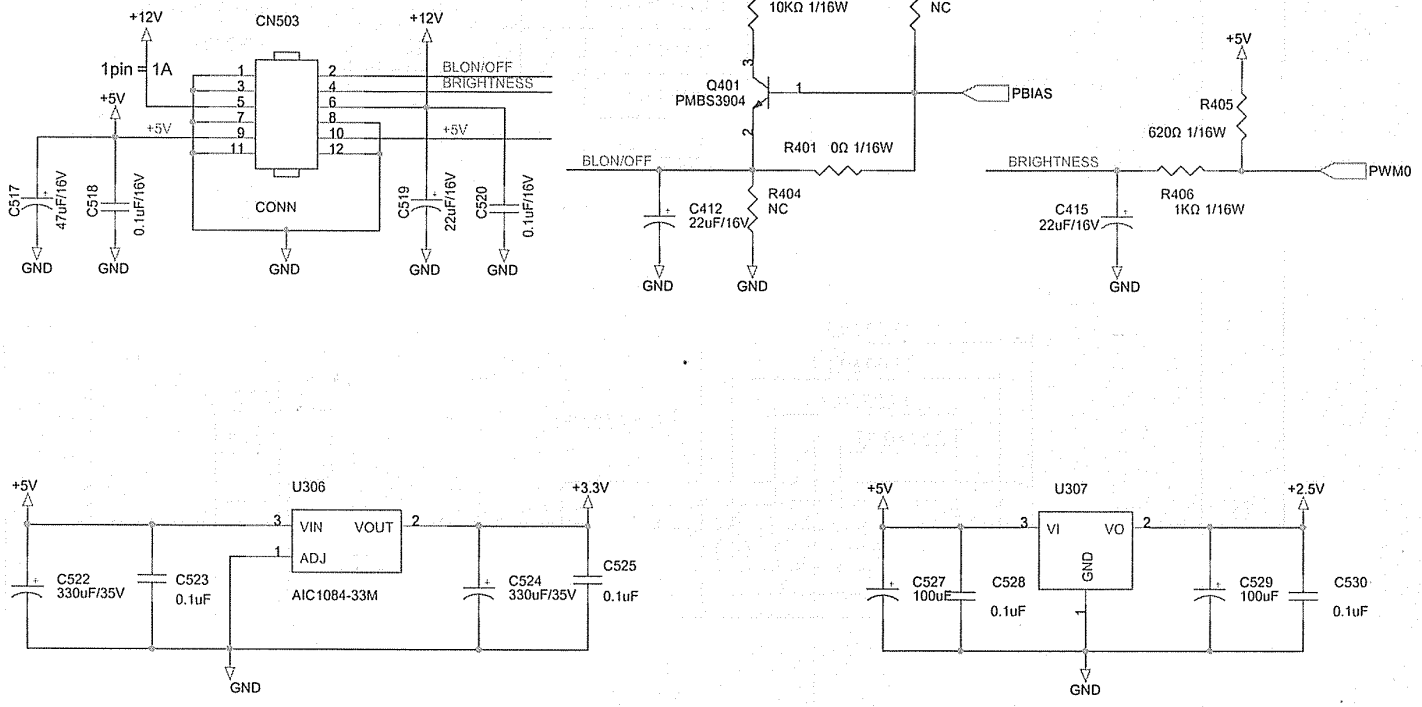


920526:A. LED訊號顛反向





AOC EYES VALUE	Title: 05. Display Interface		
	Size: C	Document Number: 715L1129-B-LE2.DSN	Rev: B
	Date: Friday, June 27, 2003	Sheet: 5 of 6	

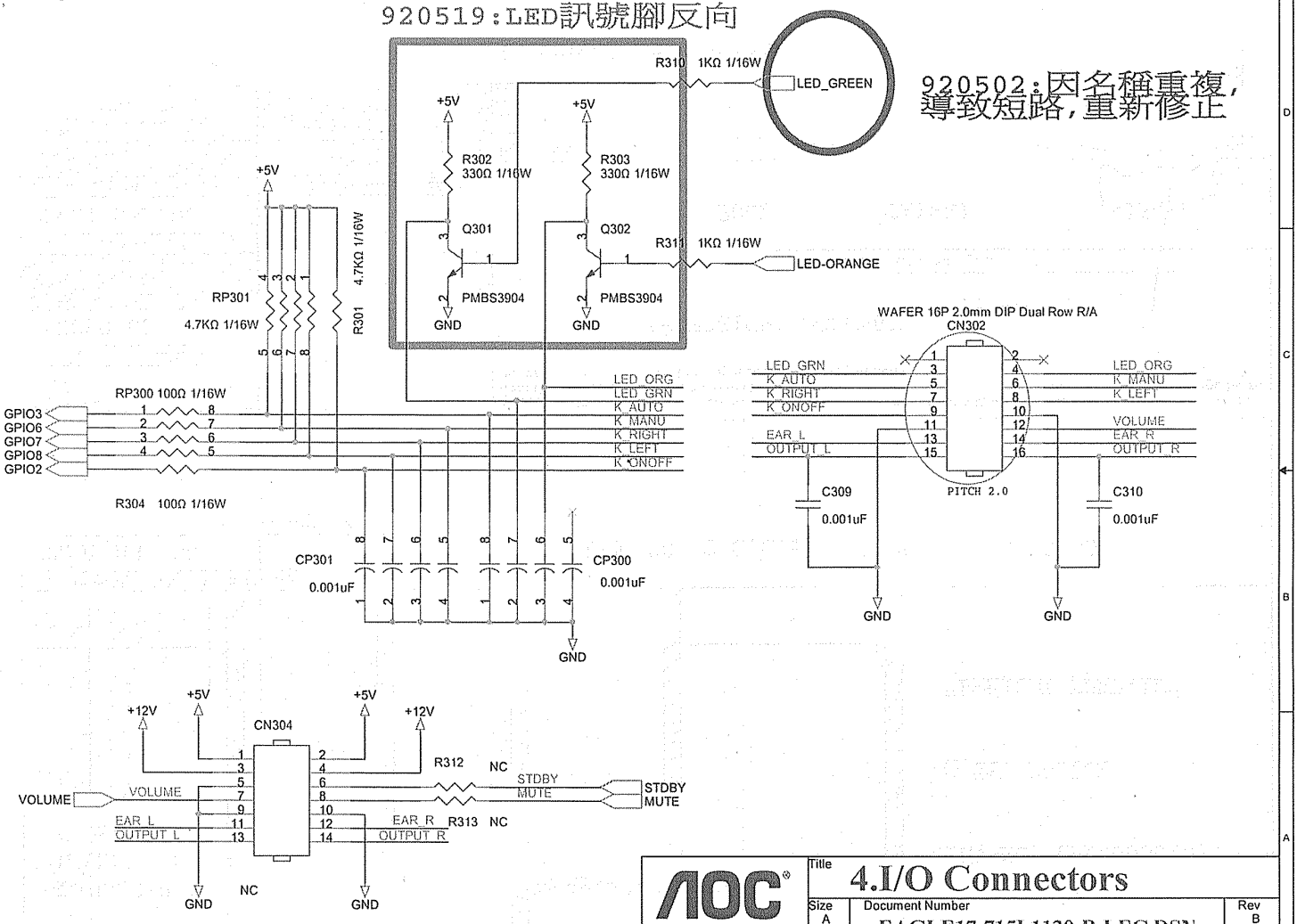


AOC® EYES VALUE

Title	06. Board Power Supply		
Size A	Document Number 715L1129-B-LE2.DSN		Rev B
Date: Friday, June 27, 2003	Sheet 6 of 6		

920519:LED訊號腳反向

920502:因名稱重複，導致短路，重新修正

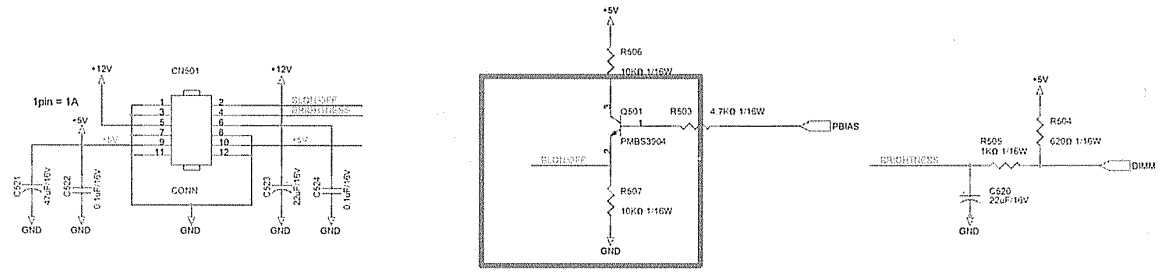


AOC EYES VALUE

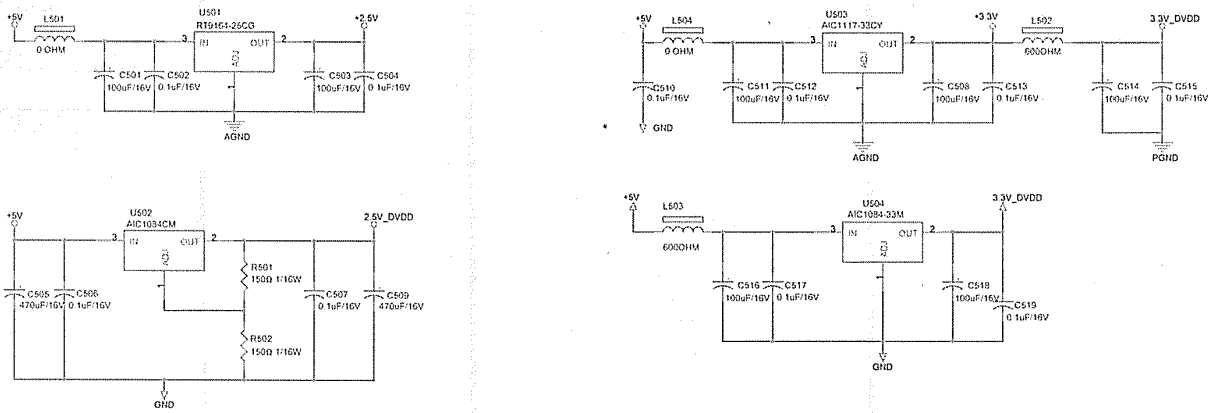
Title: 4.I/O Connectors

Size	Document Number	Rev
A	EAGLE17-715L1130-B-LEG.DSN	B

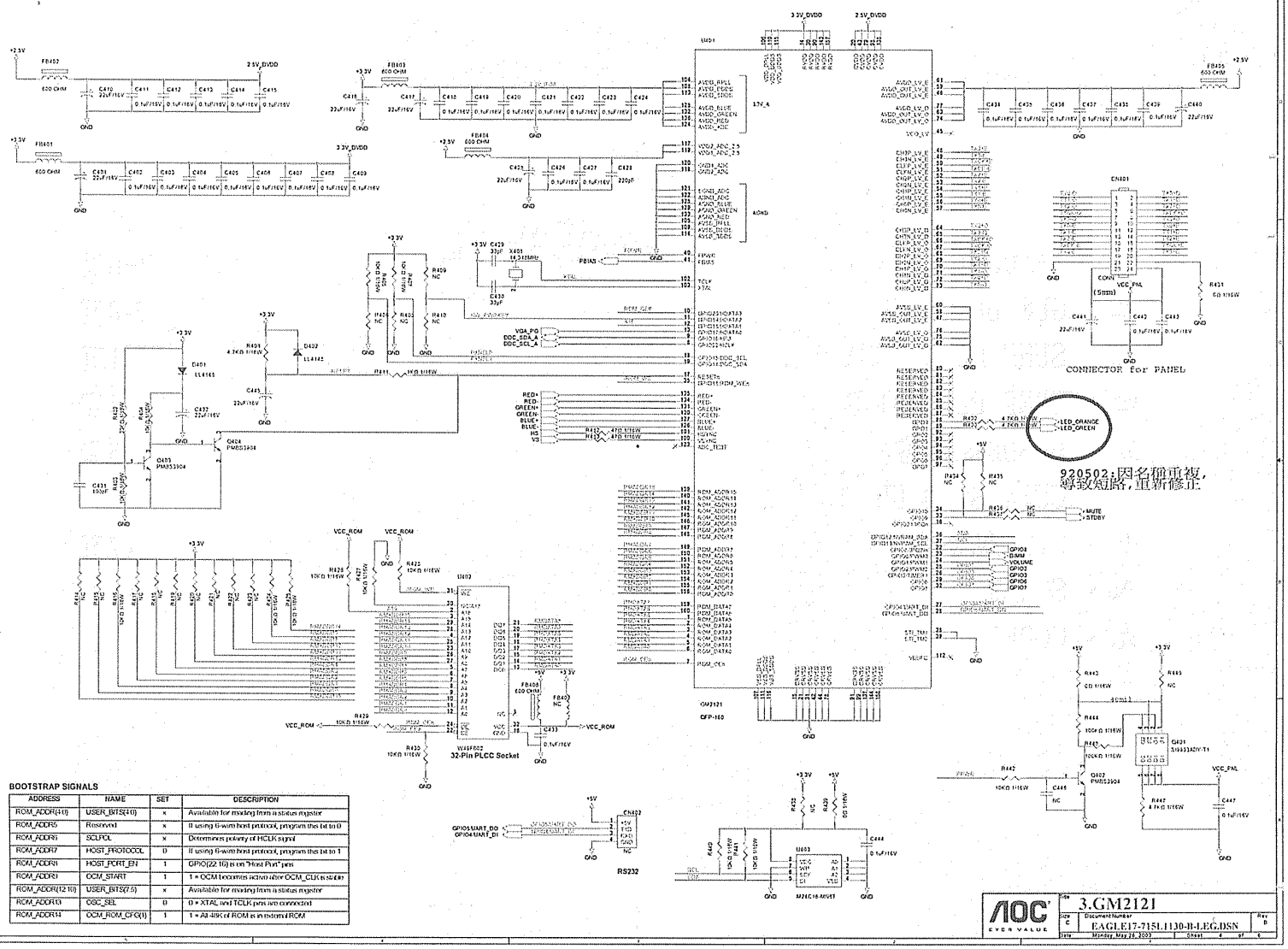
Date: Monday, May 26, 2003 Sheet 5 of 6



920519:Inverter訊號腳反向



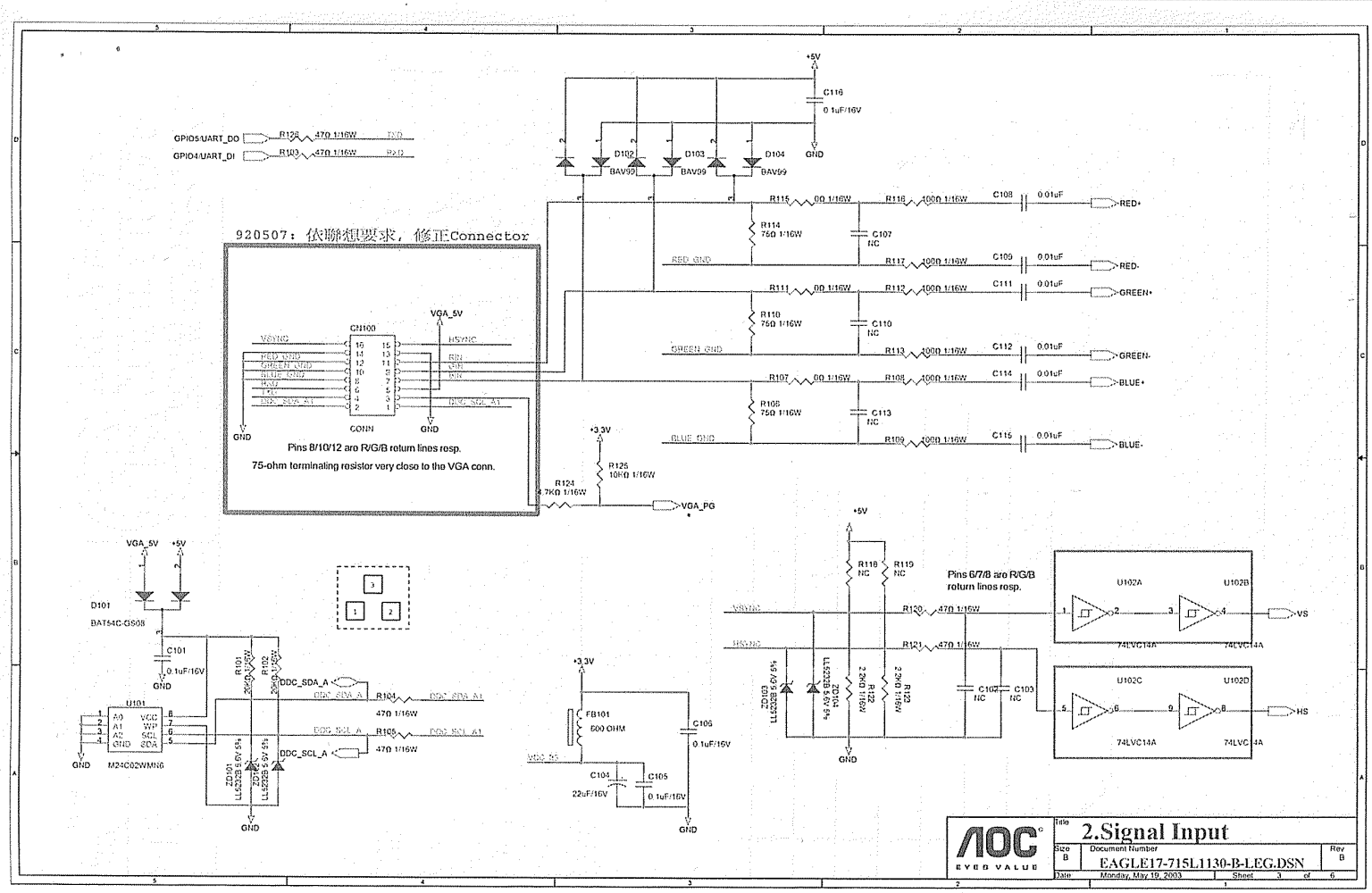
AOC EYES VALUE	Title: 5.Power		
Size: B	Document Number: EAGLE17-715L1130-B-LEG.DSN		Rev: B
Date: Monday, May 26, 2003	Sheet 6 of 6		



BOOTSTRAP SIGNALS

ADDRESS	NAME	SET	DESCRIPTION
ROM_ADDR(4:0)	USER_BITS(4:0)	x	Available for reading from a status register
ROM_ADDR5	Reserved	x	If using 6-wire host protocol, program this bit to 0
ROM_ADDR6	SCLPOL	x	Determines polarity of HCLK signal
ROM_ADDR7	HOST_PROTOCOL	0	If using 6-wire host protocol, program this bit to 1
ROM_ADDR8	HOST_PORT_EN	1	GPIO[22:16] is on "Host Port" pins
ROM_ADDR9	OCM_START	1	1 = OCM becomes active after OCM_CLK is stable
ROM_ADDR(12:10)	USER_BITS(7:5)	x	Available for reading from a status register
ROM_ADDR13	OSC_SEL	0	0 = XTAL and TCLK pins are connected
ROM_ADDR14	OCM_ROM_CFG(1)	1	1 = All 4Mbit of ROM is in system ROM

AOC EVER VALUE	Title: 3.GM2121		
	Size: C	Document Number: EAGLE17-715L1130-B-LEG.DSN	Rev: B
	Date: Monday, May 28, 2007	Sheet 4 of 6	


920507：依聯想要求，修正Connector
Pins 8/10/12 are R/G/B return lines resp.
75-ohm terminating resistor very close to the VGA conn.
Pins 6/7/8 are R/G/B return lines resp.
2.Signal Input
EAGLE17-715L1130-B-LEG.DSN
Monday, May 19, 2003
Sheet 3 of 6