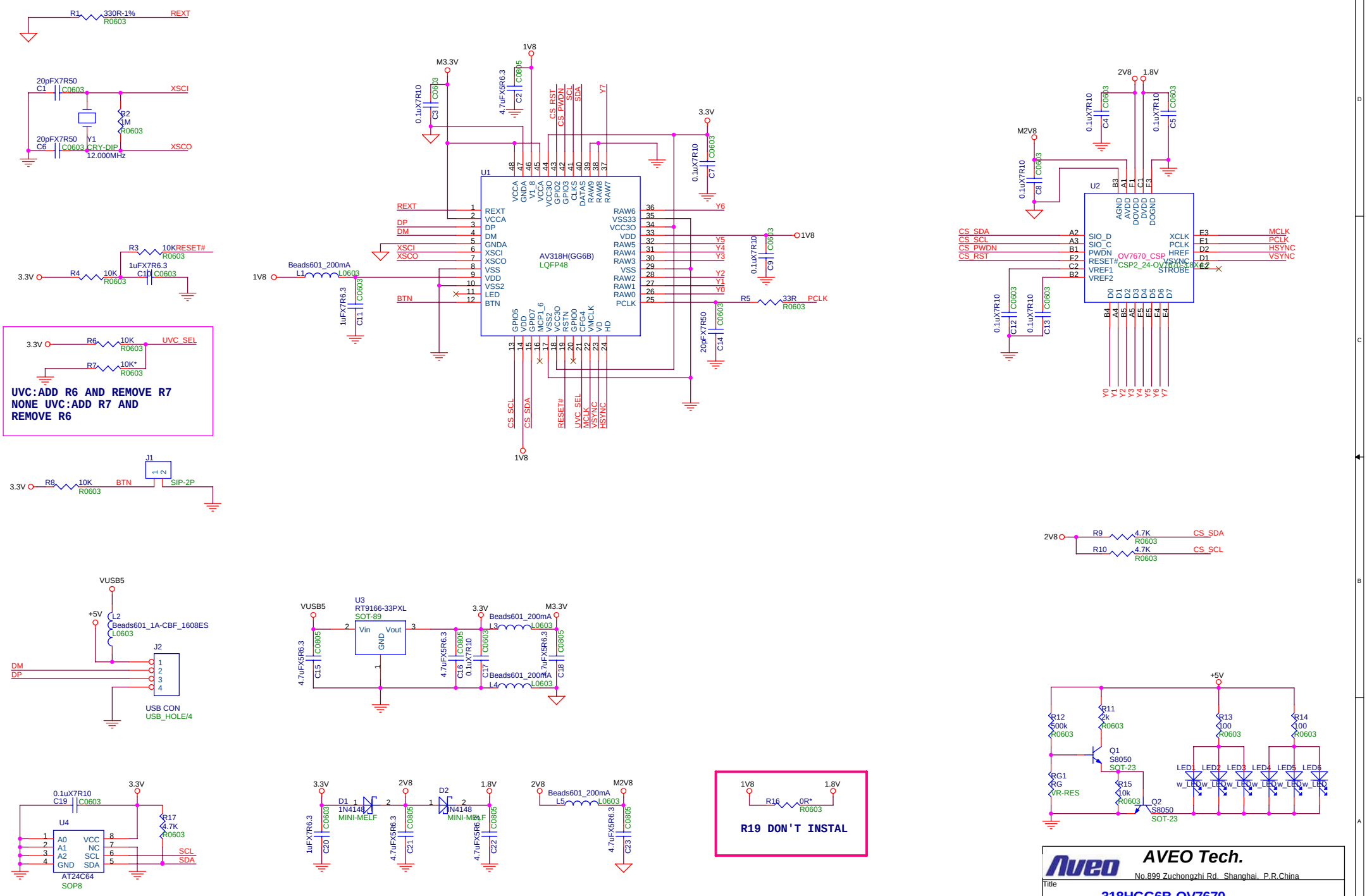
R1 330R-1% REXT R0603
20pFX7R50 C1 C0603 XSCI
R2 1M R0603
20pFX7R50 C6 C0603 Y1 CRY-DIP 12.000MHz XSCO
R3 10K RESET# R0603
3.3V R4 10K R0603 1uFX7R6.3 C10 C0603
3.3V R6 10K R0603 UVC_SEL
R7 10K* R0603
UVC:ADD R6 AND REMOVE R7
NONE UVC:ADD R7 AND
REMOVE R6
J1
3.3V R8 10K R0603 BTN SIP-2P
1V8 Beads601_200mA L1 L0603
1uFX7R6.3 C11 C0603
M3.3V
0.1uX7R10 C3 C0603
4.7uFX5R6.3 C2 C0805
U1
AV318H(GG6B)
LQFP48
REXT
DP
DM
XSCI
XSCO
BTN
VCCA GNDA V1_8 VCCA VCC3O GPIO2 GPIO3 CLKS DATAS RAW9 RAW8 RAW7
REXT VCCA DP DM GNDA XSCI XSCO VSS VDD VSS2 LED BTN
RAW6 VSS33 VCC3O VDD RAW5 RAW4 RAW3 VSS RAW2 RAW1 RAW0 PCLK
GPIO5 VDD GPIO7 MCP1_6 VSS2 VCC3O RSTN GPIO0 CFG4 VMCLK VD HD
CS_RST CS_PWDN SCL SDA Y7
Y6 Y5 Y4 Y3 Y2 Y1 Y0
CS_SCL CS_SDA RESET# UVC_SEL MCLK VSYNC HSYNC
3.3V 0.1uX7R10 C7 C0603
1V8 0.1uX7R10 C9 C0603
R5 33R R0603 PCLK
20pFX7R50 C14 C0603
1V8
2V8 1.8V
0.1uX7R10 C4 C0603
0.1uX7R10 C5 C0603
M2V8
0.1uX7R10 C8 C0603
U2
AGND AVDD DOVDD DVDD DOGND
CS_SDA CS_SCL CS_PWDN CS_RST
SIO_D SIO_C PWDN RESET# VREF1 VREF2
XCLK PCLK HREF VSYNC STROBE
MCLK PCLK HSYNC VSYNC
OV7670_CSP
CSP2_24-OV7670-3.8X4.2
0.1uX7R10 C12 C0603
0.1uX7R10 C13 C0603
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7
2V8 R9 4.7K R0603 CS_SDA
R10 4.7K R0603 CS_SCL
VUSB5
+5V L2 Beads601_1A-CBF_1608ES L0603
J2
DM
DP
USB CON
USB_HOLE/4
U3
RT9166-33PXL
SOT-89
Vin GND Vout
4.7uFX5R6.3 C15 C0805
4.7uFX5R6.3 C16 C0805
0.1uX7R10 C17 C0603
3.3V Beads601_200mA L3 L0603
Beads601_200mA L4 L0603
M3.3V
4.7uFX5R6.3 C18 C0805
+5V
R12 500k R0603
R11 2k R0603
Q1 S8050 SOT-23
RG1 RG VR-RES
R15 10k R0603
Q2 S8050 SOT-23
R13 100 R0603
R14 100 R0603
LED1 LED2 LED3 LED4 LED5 LED6
0.1uX7R10 C19 C0603
3.3V
U4
A0 A1 A2 GND VCC NC SCL SDA
AT24C64
SOP8
R17 4.7K R0603
SCL SDA
3.3V D1 1N4148 MINI-MELF
2V8 D2 1N4148 MINI-MELF
1.8V
1uFX7R6.3 C20 C0603
4.7uFX5R6.3 C21 C0805
4.7uFX5R6.3 C22 C0805
2V8 Beads601_200mA L5 L0603 M2V8
4.7uFX5R6.3 C23 C0805
1V8 R16 0R* R0603 1.8V
R19 DON'T INSTAL
AVEO Tech.
No.899 Zuchongzhi Rd. Shanghai, P.R.China
Title
318HGG6B-OV7670
Size A3
Document Number
Rev A1
Date: Thursday, May 22, 2008
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