OV518 & OV6630 Reference Design

Revision: 1.0
Date: June 6, 2000

Revision History:
1. Merge J1 and J2 together (page 1)
2. Change resistors and capacitors to size 0402 (page 1,2,3)
3. Connect R16 to AGND (page 3)
4. Connect C25 to AVDD (page 3)
5. Change C21 to .1U-0402 (page 3)
6. Merge DGND and DOGND together (page 3)
7. AGND, DGND and USBGND are single point connected (page 3)
8. Append page 4 for layout guide

---

*** Preliminary ***

Omnivision Technologies, Inc.
930 Thompson Place
Sunnyvale, CA 94086

OV518 & OV6630 Reference Design

USB Controller (OV518)
AGND, DGND and USBGND are single point connected.
OV518 & OV6630 Layout Guide

Power Scheme:

*Camera Power Switch 5V
VCC

*3.3V Regulator

C_VDD

C3.3V

*Inductor

5V

*USB Power

DVDD  SVDD  AVDD

*OV6630

*3.3V Regulator

3.3V

*OV518

Ground Scheme:

DVDD  SVDD  AVDD

*OV6630

DGND  AGND

*OV518

USBGND

* USB Ground

* Single point connection

* Single point connection

PCB Layout Notice:

1. Power Plane: Separate to 4 planes, DVDD, SVDD, AVDD, 3.3V

2. Ground Plane: Separate to 3 planes, DGND, AGND, USBGND with single point connections

**** Preliminary ****

OmniVision Technologies, Inc.

Title: OV518 & OV6630 Reference Design

930 Thompson Place
Sunnyvale, CA 94086

Size: Document Number

Layout Guide

Rev: 1.0

Date: Tuesday, June 06, 2000
Sheet 4 of 4