C116-B, NV18B/NV31/NV34, 8MX16DDR, 64MB, VIDEO OUT, VGA

Page Overview

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2 NV18B AGP Section and AGP connector

3 NV18B FRAME BUFFER Interface

4 MEMORY 64MB, 8Mx16DDR Bits 0..31

5 MEMORY 64MB, 8Mx16DDR Bits 32..63

6 NV18B STRAPPING, I/O Interface & BIOS, FAN CONNECTOR

7 NV18B DACA, DACB output, SYNC amplifier & PLL Section

8 PRIMARY DISPLAY Filter and Connector

9 NV18 TMDS Power, VIDEO OUT CONNECTOR

10 POWER SUPPLY & A3V3 & FBVDDQ & NVVDD & FBVDD

11 MECHANICS

HISTORY:

SUPORT NV18B

1 change all 0402 footprint to 0603.

0B

A. Change R534 from 2.43K_1% to 2.55K_1% (R11-2551T13-Y01), R533 change from 1.05K_1% to 1.18K_1% (R11-1181T13-Y01) to get FBVDDQ=2.528V. B. Add R591 (2.2 ohm_0603_5%) and C409 (2200p_0603) to reduce VRM noise on L1 pin1. 200. SHORT ALL MEMORY DAMPING RESISTOR AND CHANGE COLOR TO RED. 210. ADD FBAA12 TO SUPPORT 16M*16 MEMORY

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\verb|a.removeC62,C590,C574,C566,C615,C628,C642,C631,C626,C648,C647,C645,C624,R609,R625| \\
 b.add 2 MOSFET for U200 daul-lay
3.Page 3
  remove C603,C609,C618,C611,C612,C610,C604,C592,
R768,R770,R772,R774
4.Page 4.5
 a.removeC1112,C238,C241,C1115,C250,C1113,
    C1114,C228,C230,C1120,C1119,C247,C245,C244,
 b.removeC1100,C247,C277,C1101,C1102,C286,C264,
    C1104,C1106,C280,C281,C299,C1107,C1108,
    C269,C270
 c.remove memory data all damping(15ohm).
 d.Move bypass capacitors(C1161,C1162,C1163,C1164)of memory clock to
   close GPU(PAGE3).
 5.Page 6
 remove U13(BIOS(ALTERNATIVE)),TEMP Sensor 6.Page 7
   change Y3 package to DIP
 7.Page 8
 remove R695,R694,R693,R7,R1,C788,C797,C819,
         C806, C787, C796, C805, C818, C786,
         C795,C817,C804,L510,L509,L508
     a.remove S_OUT1, AV_OUT1, C789, C809, C790,
              C810,C791,C812,L519,L520,L521
     b.add 9pin-mini-din
  9. Page 11
     a.remove ISL6529
     b.add mosfet and OP(LM358) for NVVDD, FBVDD, FBVDDQ
     c.change C41,C39 to DIP package
     change data[48:63) sequence
     ddr suport 16*16M
  0728
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