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| Title | | 20A Core, 6A I/O Solution for Stratix II | |
| Size | Number | Rev | |
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| Date | 8/03/04 | Drawn by | |
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| Date: 08/19/2004 | | | | | |
| PR354 BOM | | | | | |
| COUNT | RefDes | Description | Size | MFR | Part Number |
| 3 | C1, C2, C3 | Capacitor, Ceramic, 22-uF, 6.3-V, X5R, 1210 | 1210 | muRata | GRM32DR60J226KA01 |
| 1 | C10 | Capacitor, Ceramic, 0.01-uF, 25-V, X7R, 10% | 603 | muRata | GRM188R71E103KA01 |
| 1 | C12 | Capacitor, Ceramic, 1800-pF, 50-V, X7R, 10% | 603 | muRata | GRM188R71H182KA01 |
| 1 | C13 | Capacitor, Ceramic, 4700-pF, 50-V, X7R, 10% | 603 | muRata | GRM188R71H472KA01 |
| 1 | C14 | Capacitor, Ceramic, 33-pF, 50-V, C0G, 5% | 603 | muRata | GQM1885C1H330GB01D |
| 1 | C15 | Capacitor, Ceramic, 0.012-uF, 25-V, X7R, 10% | 603 | muRata | GRM188R71E123KA01 |
| 1 | C16 | Capacitor, Ceramic, 0.047-uF, 25-V, X7R, 10% | 603 | muRata | GRM188R71E473KA01 |
| 1 | C17 | Capacitor, Ceramic, 68-pF, 50-V, C0G, 5% | 603 | muRata | GRM1885C1H680JA01 |
| 1 | C18 | Capacitor, Ceramic, 0.1-uF, 16-V, X7R, 10% | 603 | muRata | GRM188R71C104KA01 |
| 1 | C19 | Capacitor, Ceramic, 6800-pF, 25-V, X7R, 10% | 603 | muRata | GRM188R71E682KA01 |
| 1 | C20 | Capacitor, Ceramic, 10-uF, 6.3-V, X5R, 10% | 805 | muRata | GRM21BR60J106KE01 |
| 1 | C21 | Capacitor, POSCAP, 220-uF, 10-V, 40-milliohm, 20% | 7343 (D) | Sanyo | 10TPB220M |
| 1 | C22 | Capacitor, Ceramic, 0.047-uF, 25-V, X7R, 10% | 603 | muRata | GRM188R71E473KA01 |
| 2 | C23, C24 | Capacitor, POSCAP, 470-uF, 4-V, 40-milliohm, 20% | 7343 (D) | Sanyo | 4TPB470M |
| 2 | C4, C11 | Capacitor, Ceramic, 1.0-uF, 6.3-V, X5R, 10% | 603 | muRata | GRM188R60J105KA01 |
| 5 | C5, C6, C7, C8, C9 | Capacitor, Aluminum, 270-uF, 2-V, 20% (UE Series) | 7343 | Panasonic | EEFUE0D271R |
| 1 | L1 | Inductor, SMT, 2.2-uH, 20-A, 4.2-milliohm | 0.51 x 0.51 | Vishay | IHLP-5050EZ-01 2.2uH |
| 1 | L2 | Inductor, SMT, 4.7-uH, 12-A, 12.8-milliohm | 0.51 x 0.51 | Vishay | IHLP-5050EZ-01 4.7uH |
| 2 | Q1, Q2 | MOSFET, N-ch, 20V, 8.5-milliohms | POWER S0-8 | Siliconix | Si7368DP |
| 2 | Q3, Q4 | MOSFET, N-ch, 20V, 3.75-milliohms | POWER S0-8 | Siliconix | Si7866DP |
| 1 | R1 | Resistor, Chip, 17.8k-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 1 | R2 | Resistor, Chip, 2.2-Ohms, 1/10-W, 1% | 805 | Std | Std |
| 1 | R3 | Resistor, Chip, 28.0k-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 3 | R4, R10, R11 | Resistor, Chip, 10.0k-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 1 | R5 | Resistor, Chip, 649-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 1 | R6 | Resistor, Chip, 14.0k-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 1 | R7 | Resistor, Chip, 3.74k-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 1 | R8 | Resistor, Chip, 1.18k-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 1 | R9 | Resistor, Chip, 9.76k-Ohms, 1/16-W, 1% | 603 | Std | Std |
| 1 | U1 | IC, Low Input Voltage Mode, Sync. Buck Controller | DGQ10 | TI | TPS40007DGQ |

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|---|----|---------------------------------------|-------|----|-------------|
| 1 | U2 | IC, IFET Power controller, Adj-V, 6-A | PWP28 | TI | TPS54610PWP |
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