

NOTES, UNLESS OTHERWISE SPECIFIED:

1. RESISTANCE VALUES IN OHMS.
2. CAPACITANCE VALUES IN MICROFARADS.
3. REFERENCE DESIGNATORS USED:
4. ALL 0.1 μ F AND 0.01 μ F CAPACITORS ARE DECOUPLING CAPS UNLESS OTHERWISE NOTED. THEY ARE SHOWN ON THE PAGE WITH THE INTEGRATED CIRCUITS THEY SHOULD BE PLACED NEAR.

| REVISIONS | | | |
|-----------|---|----------|----------|
| Revision | DESCRIPTION | DATE | APPROVED |
| A | Initial Release. | 5/15/09 | |
| B | Changed USB Connector to type A, added Capacitance to 1.3Volt supply to reduce VCore Ripple | 6/22/09 | |
| C | Modified expansion connector footprint to 60 pins | 10/15/09 | |

Schematic Contents

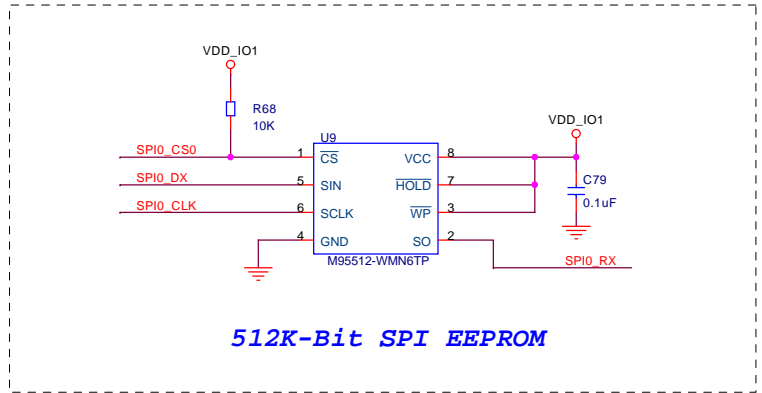
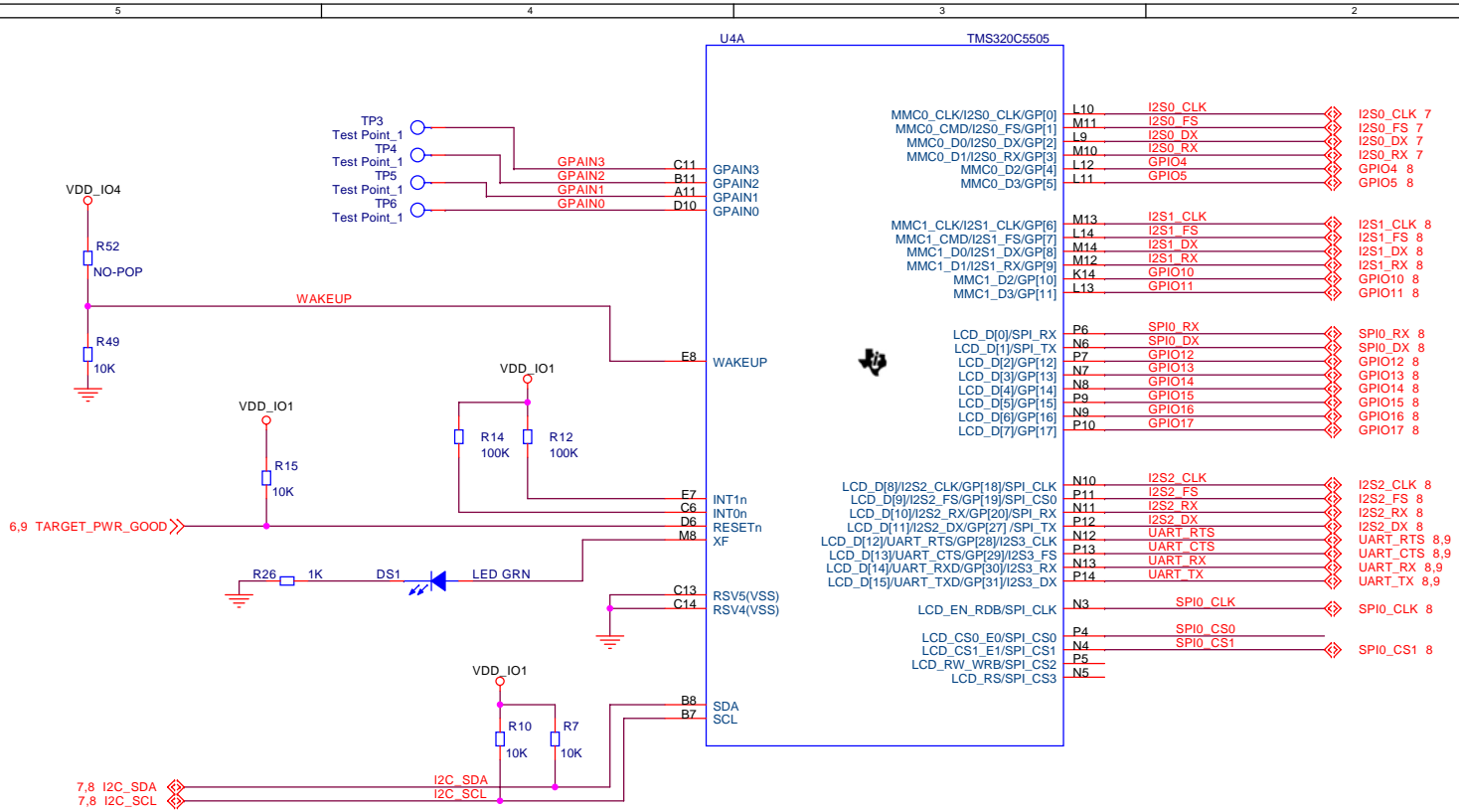
- 01 - TITLE PAGE
- 02 - TMS320C5505 GPIO / MMC / SPI / I2C -- SPI EEPROM
- 03 - TMS320C5505 CLOCKS / JTAG / USB
- 04 - TMS320C5505 EMIF
- 05 - TMS320C5505 Power
- 06 - POWER 3V3, 1V3
- 07 - CODEC
- 08 - EXPANSION CONNECTOR
- 09 - XDS100 INTERFACE

REVISION STATUS OF SHEETS

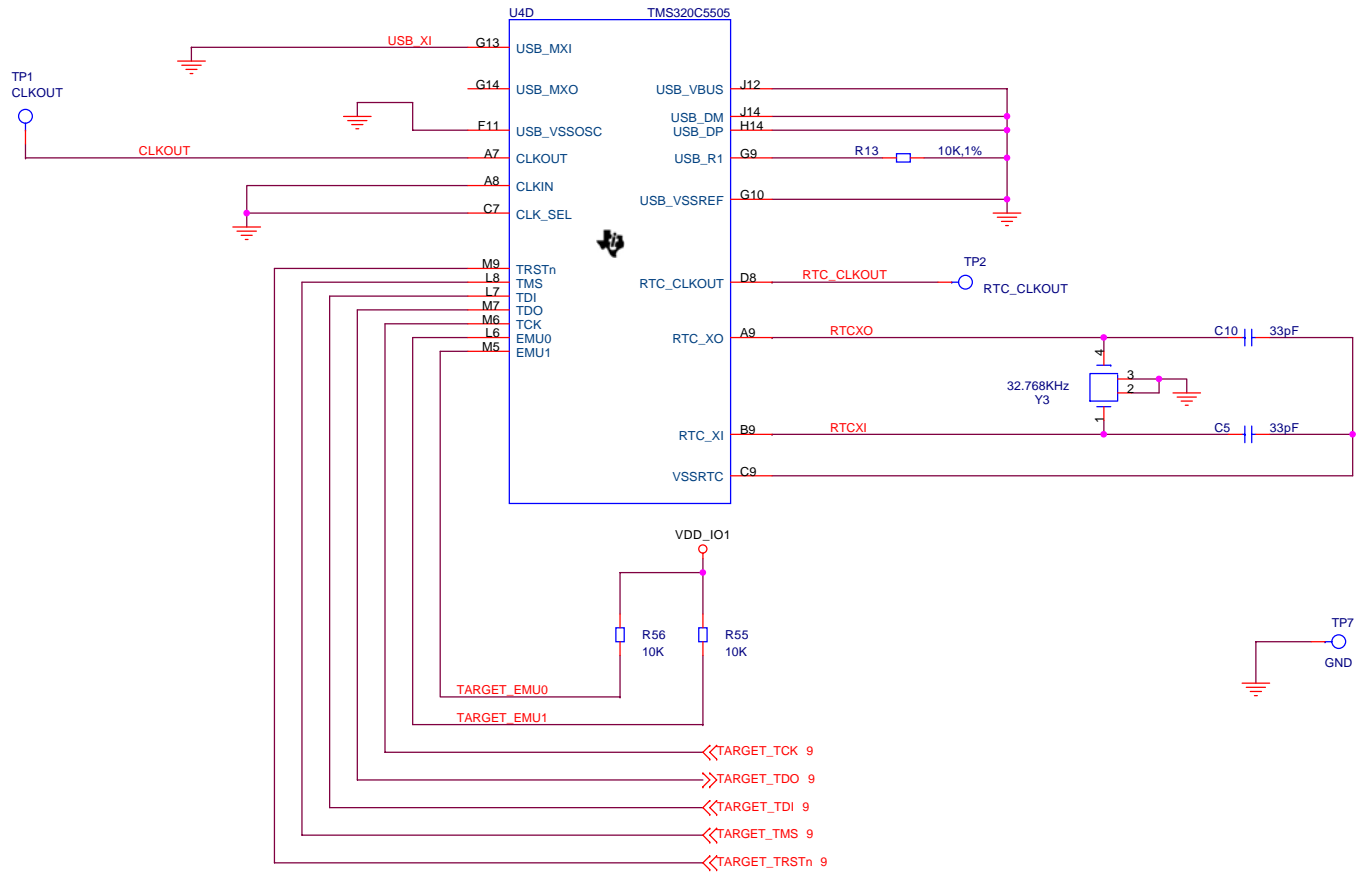
| REV | D | A | A | A | A | A | A | C | A | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|--|-------------|---------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | |
| SHEET | | | | | | | | | | | | | | | | | | | | | |
| REV | | | | | | | | | | | | | | | | | | | | | |
| SHEET | | | | | | | | | | | | | | | | | | | | | |
| REV | | | | | | | | | | | | | | | | | | | | | |
| SHEET | | | | | | | | | | | | | | | | | | | | | |
| REV | D | A | A | A | A | A | A | C | A | | NEXT ASSY | USED ON | | | | | | | | | |
| SHEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | APPLICATION | | | | | | | | | | |

| | | | | |
|--|----------|--------|------------|------|
| | DWN | R.R.P. | 05/15/2009 | DATE |
| | CHK | T.W.K. | 05/15/2009 | DATE |
| | ENGR | R.R.P. | 05/15/2009 | DATE |
| | ENGR-MGR | R.R.P. | 05/15/2009 | DATE |
| | QA | C.M.D. | 05/15/2009 | DATE |
| | MFG | R.R.P. | 05/15/2009 | DATE |
| | RLSE | R.R.P. | 05/15/2009 | DATE |

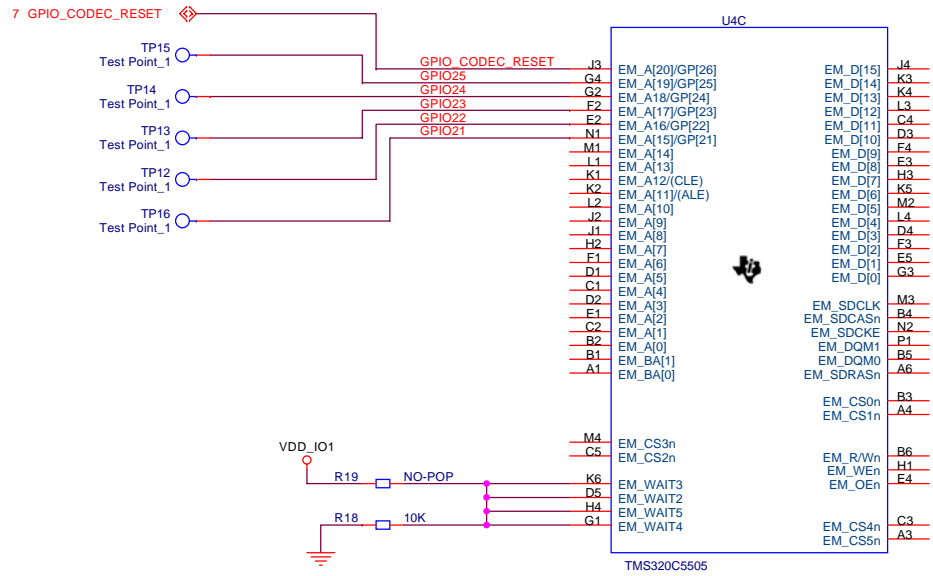
| | | | |
|------------------------------------|--------|--------------|-------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: TITLE SHEET | | | |
| Size:B | DWG NO | 512322-0001 | Revision: D |
| Date: Tuesday, August 17, 2010 | | Sheet 1 of 9 | |



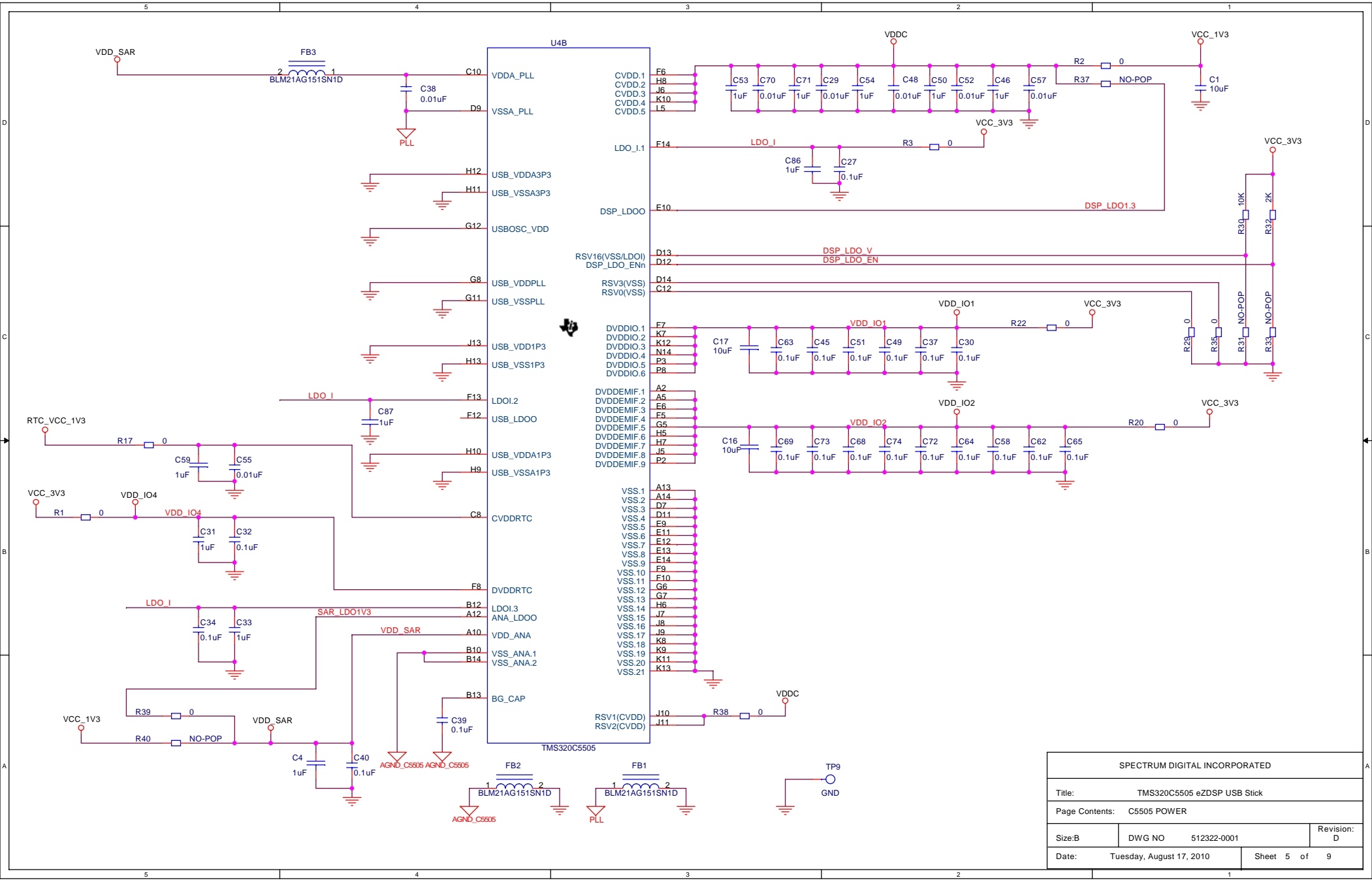
| | | | |
|--|--------------------------|-------------|-------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: GPIO,MMC-SD,SPI,I2C,I2S | | | |
| Size: B | DWG NO | 512322-0001 | Revision: A |
| Date: | Tuesday, August 17, 2010 | Sheet 2 of | 9 |



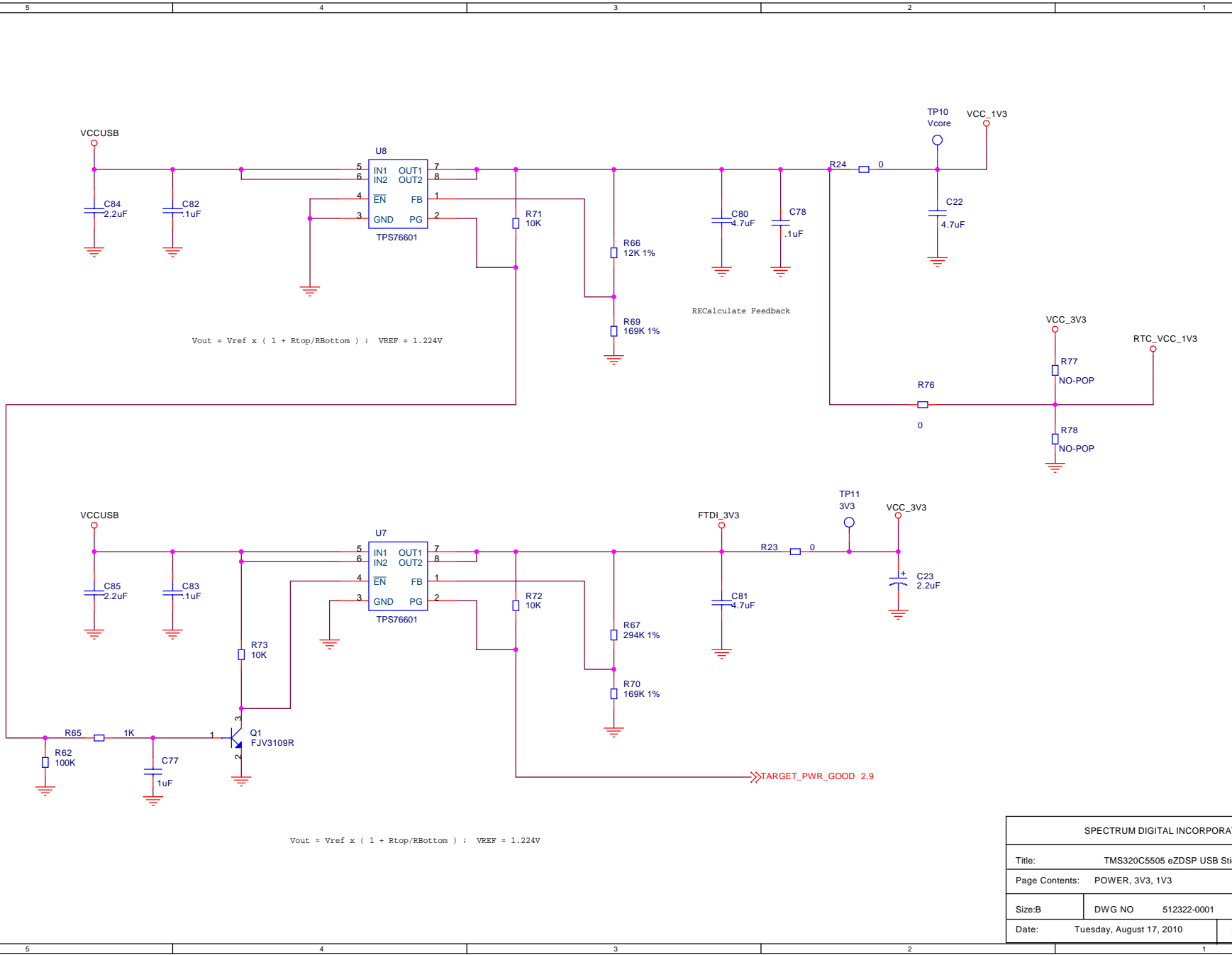
| | | | |
|------------------------------------|--------------------------|-------------|-------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: CLOCK,JTAG,USB | | | |
| Size: B | DWG NO | 512322-0001 | Revision: B |
| Date: | Tuesday, August 17, 2010 | Sheet 3 of | 9 |



| | | | |
|------------------------------------|--------------------------|-------------|-------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: CS505 EMIF | | | |
| Size: B | DWG NO | 512322-0001 | Revision: A |
| Date: | Tuesday, August 17, 2010 | Sheet 4 of | 9 |



| | | | |
|------------------------------------|--------------------------|--------------|-------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: C5505 POWER | | | |
| Size: B | DWG NO | 512322-0001 | Revision: D |
| Date: | Tuesday, August 17, 2010 | Sheet 5 of 9 | |

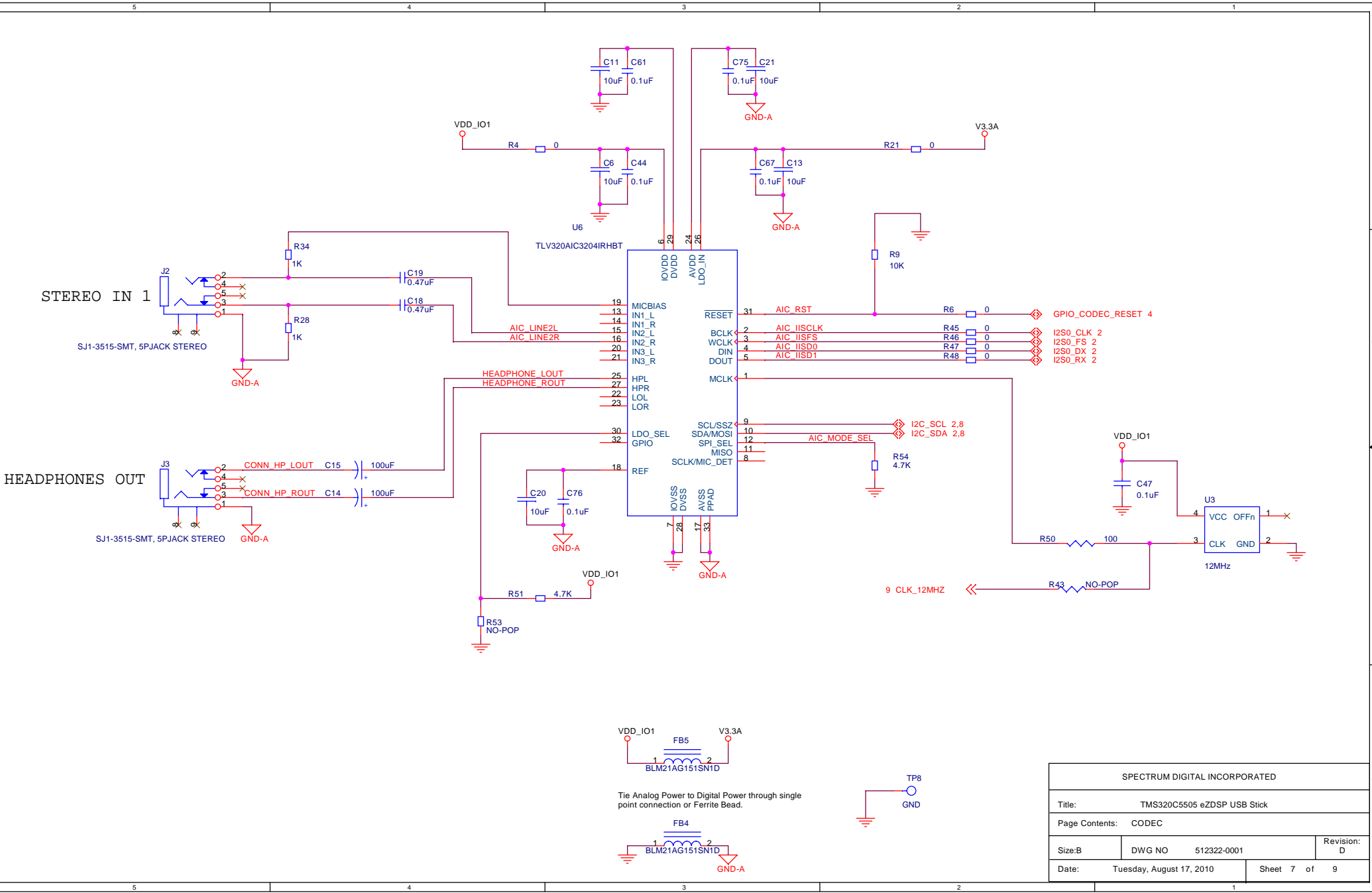


$V_{out} = V_{ref} \times (1 + R_{top}/R_{bottom}) ; V_{REF} = 1.224V$

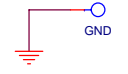
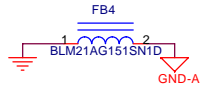
RECalculate Feedback

$V_{out} = V_{ref} \times (1 + R_{top}/R_{bottom}) ; V_{REF} = 1.224V$

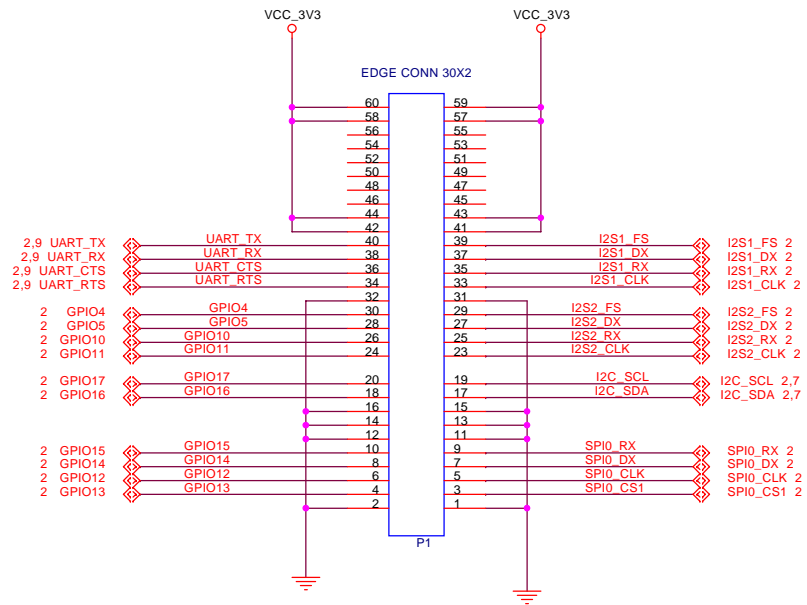
| | | | |
|------------------------------------|--------------------------|-------------|-------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: POWER, 3V3, 1V3 | | | |
| Size: B | DWG NO | 512322-0001 | Revision: D |
| Date: | Tuesday, August 17, 2010 | Sheet 6 | of 9 |



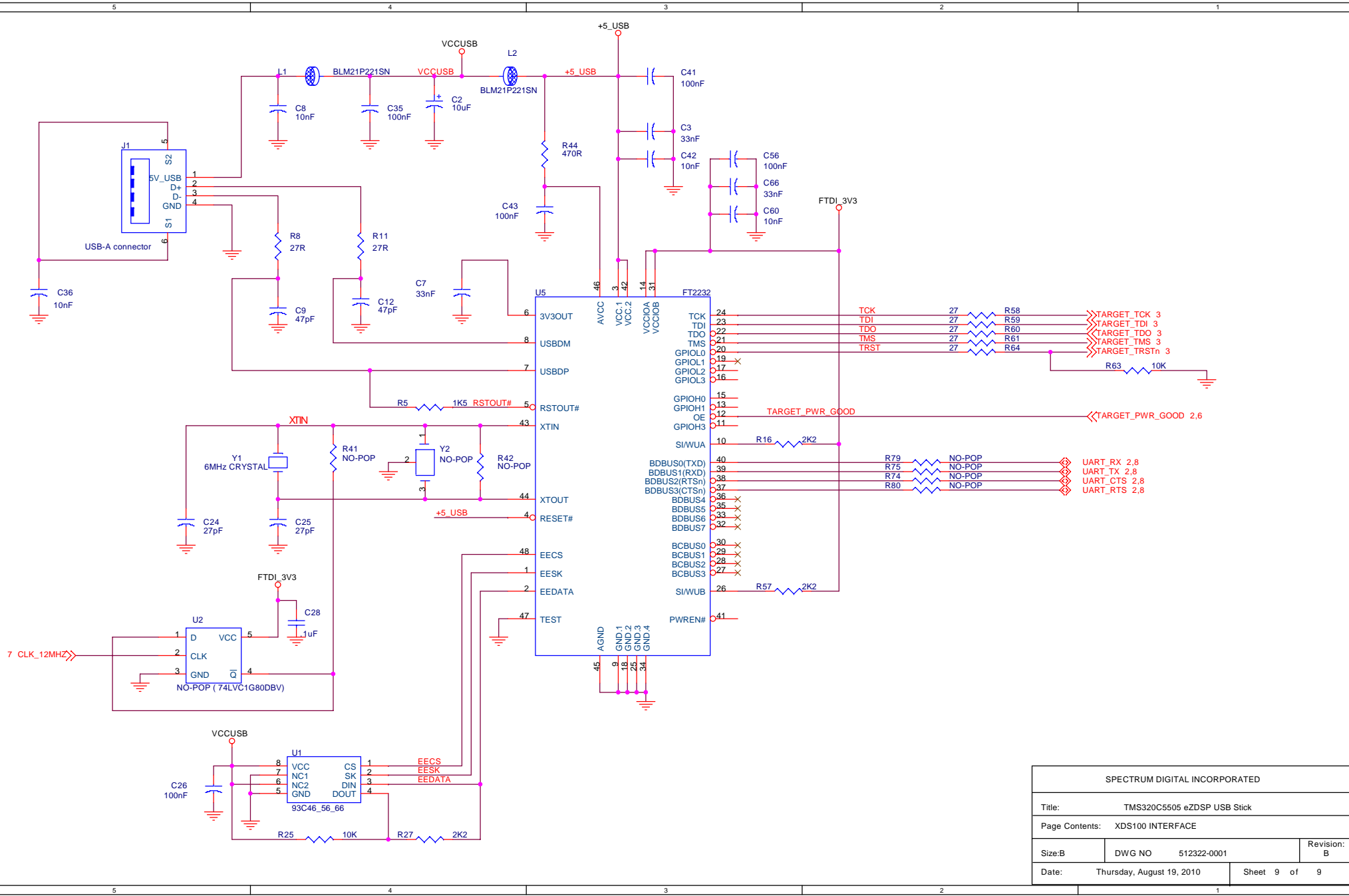
Tie Analog Power to Digital Power through single point connection or Ferrite Bead.



| | | | |
|------------------------------------|---------------------|-------------|--|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: CODEC | | | |
| Size: B | DWG NO: 512322-0001 | Revision: D | |
| Date: Tuesday, August 17, 2010 | Sheet 7 of 9 | | |



| | | | |
|-------------------------------------|--------------------------|-------------|--------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: EXPANSION CONNECTORS | | | |
| Size: B | DWG NO | 512322-0001 | Revision: C |
| Date: | Tuesday, August 17, 2010 | | Sheet 8 of 9 |



| | | | |
|------------------------------------|---------------------------|--------------|-------------|
| SPECTRUM DIGITAL INCORPORATED | | | |
| Title: TMS320C5505 eZDSP USB Stick | | | |
| Page Contents: XDS100 INTERFACE | | | |
| Size: B | DWG NO | 512322-0001 | Revision: B |
| Date: | Thursday, August 19, 2010 | Sheet 9 of 9 | |