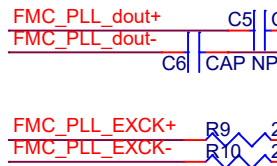
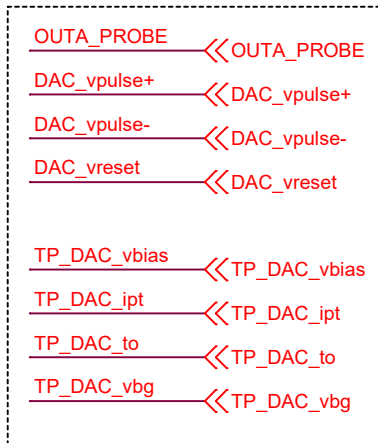
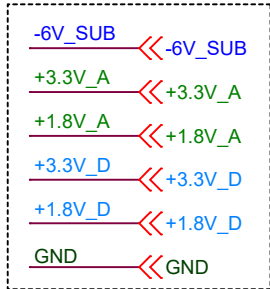
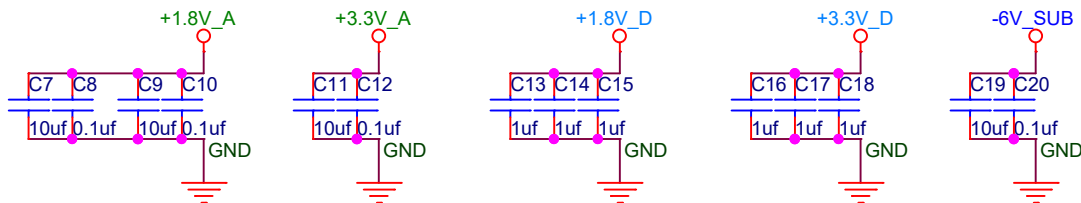
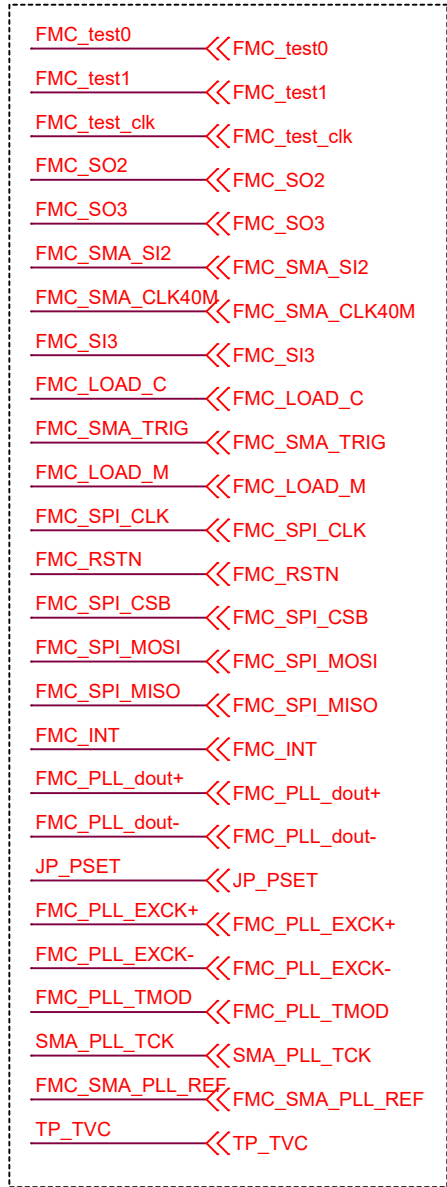


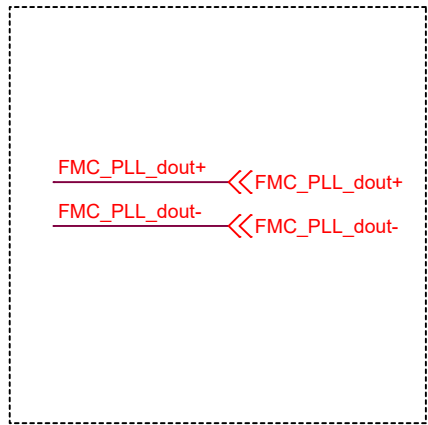
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| Title | | |
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| U3 | | PIXEL | |
|-----------------|----|--------------|----|
| -6V_SUB | 1 | PWELL | 91 |
| GND | 2 | PWELL_AVSS | 90 |
| +1.8V_A | 3 | PWELL_AVDD | 89 |
| OUTA_PROBE | 4 | OUTA_PROBE | 88 |
| DAC_vpulse+ | 5 | VPULSE_HIGH | 87 |
| DAC_vpulse- | 6 | VPULSE_LOW | 86 |
| DAC_vreset | 7 | VRESET | 85 |
| TP_DAC_vbias | 8 | VBIAS_20U_IO | 84 |
| TP_DAC_ipt | 9 | IPT_20U-IO | 83 |
| TP_DAC_to | 10 | TO_IO | 82 |
| +1.8V_A | 11 | AVDD | 81 |
| GND | 12 | AVSS | 80 |
| TP_DAC_vbg | 13 | VBG_IO | 79 |
| +3.3V_A | 14 | VDDO_A | 78 |
| GND | 15 | VSSO_A | 77 |
| GND | 16 | VSSO_DV | 76 |
| +3.3V_D | 17 | VDDO_DV | 75 |
| FMC_test0 | 18 | TEST<0> | 74 |
| FMC_test1 | 19 | TEST<1> | 73 |
| FMC_test_clk | 20 | TEST_CLK | 72 |
| FMC_SO2 | 21 | SO2 | 71 |
| FMC_SO3 | 22 | SO3 | 70 |
| FMC_SMA_SI2 | 23 | SI2/APULSE | 69 |
| +1.8V_D | 24 | DVDD | 68 |
| GND | 25 | DVSS | 67 |
| FMC_SMA_CLK40M | 26 | CLK_40M | 66 |
| FMC_SI3 | 27 | SI3/DPULSE | 65 |
| FMC_LOAD_C | 28 | LOAD_C | 64 |
| FMC_SMA_TRIG | 29 | TRIGGER | 63 |
| FMC_LOAD_M | 30 | LOAD_M | 62 |
| +1.8V_D | 31 | VDD | 61 |
| FMC_SPI_CLK | 32 | SPI_CLK | 60 |
| GND | 33 | VSS | 59 |
| FMC_RSTN | 34 | RSTN | 58 |
| FMC_SPI_CS | 35 | SPI_CS | 57 |
| FMC_SPI_MOSI | 36 | SPI_MOSI | 56 |
| FMC_SPI_MISO | 37 | SPI_MISO | 55 |
| FMC_INT | 38 | INT | 54 |
| +3.3V_D | 39 | VDDO_DV | |
| GND | 40 | VSSO_DV | |
| FMC_PLL_dout+ | 41 | PLL_DOUT_P | |
| FMC_PLL_dout- | 42 | PLL_DOUT_N | |
| FMC_PLL_EXCK+ | 43 | PSET | |
| FMC_PLL_EXCK- | 44 | VSS_PLL | |
| +1.8V_D | 45 | VDD_PLL | |
| FMC_PLL_TMOD | 46 | PLL_EXCK_P | |
| SMA_PLL_TCK | 47 | PLL_EXCK_N | |
| FMC_SMA_PLL_REF | 48 | PLL_TMOD | |
| +3.3V_D | 49 | PLL_TCK | |
| TP_TVC | 50 | PLL_REF | |
| GND | 51 | VDDO_PLL | |
| | 52 | TVC | |
| | 53 | VSSO_PLL | |



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J2A

- A1
- A2
- A3
- A4
- A5
- A6
- A7
- A8
- A9
- A10
- A11
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- A40

FMC400K

J2B

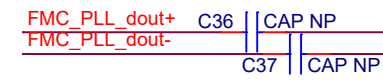
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FMC400K

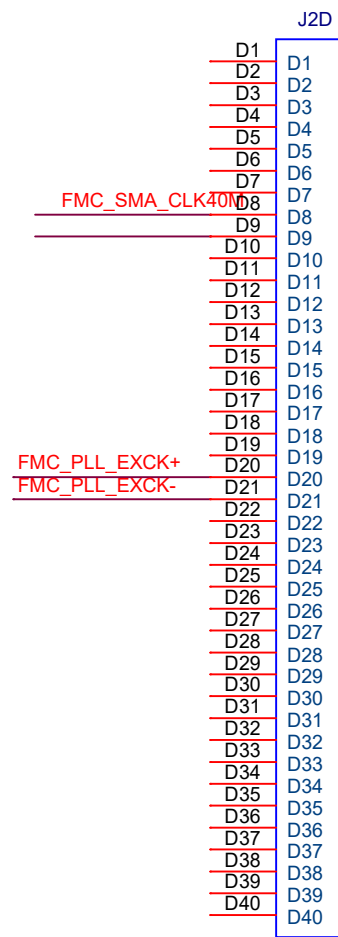
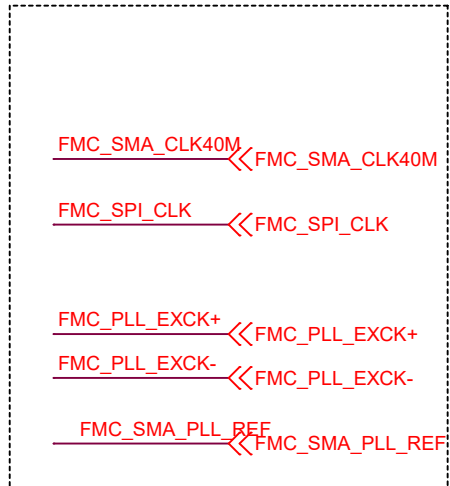
J2C

- C1
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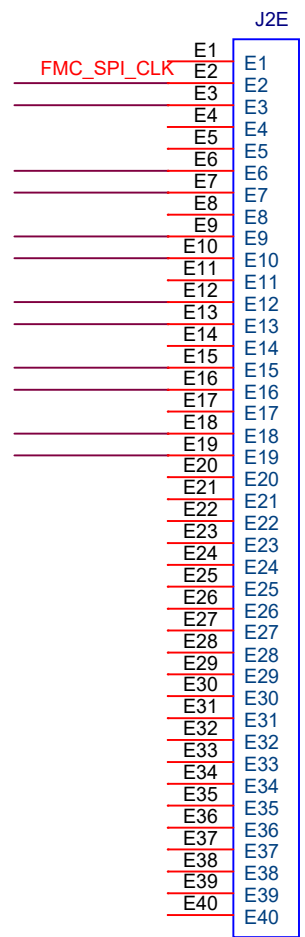
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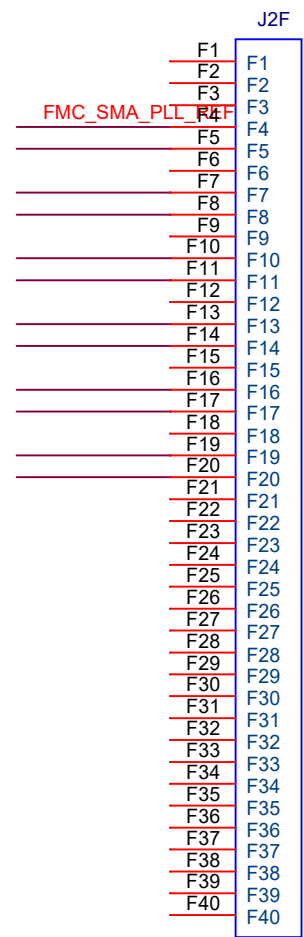
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| A | FMC | <RevCode> |
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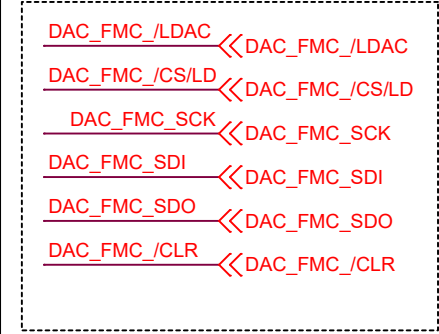
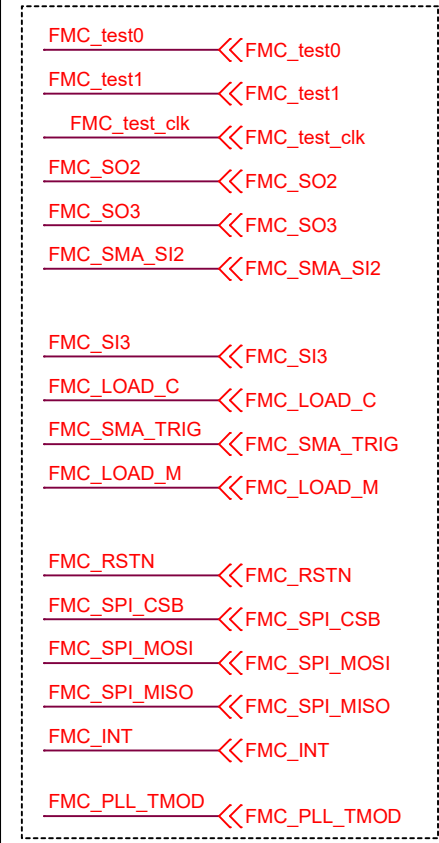


FMC400K



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J2G

| | |
|--------------|-----|
| G1 | G1 |
| G2 | G2 |
| G3 | G3 |
| G4 | G4 |
| G5 | G5 |
| DAC_FMC_SCK | G6 |
| FMC_test_clk | G7 |
| FMC_test0 | G8 |
| FMC_test1 | G9 |
| FMC_test1 | G10 |
| FMC_test1 | G11 |
| FMC_test1 | G12 |
| FMC_test1 | G13 |
| FMC_test1 | G14 |
| FMC_test1 | G15 |
| FMC_test1 | G16 |
| FMC_test1 | G17 |
| FMC_test1 | G18 |
| FMC_test1 | G19 |
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| FMC_test1 | G27 |
| FMC_test1 | G28 |
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| FMC_test1 | G30 |
| FMC_test1 | G31 |
| FMC_test1 | G32 |
| FMC_test1 | G33 |
| FMC_test1 | G34 |
| FMC_test1 | G35 |
| FMC_test1 | G36 |
| FMC_test1 | G37 |
| FMC_test1 | G38 |
| FMC_test1 | G39 |
| FMC_test1 | G40 |

FMC400K

J2H

| | |
|-------------|-----|
| H1 | H1 |
| H2 | H2 |
| H3 | H3 |
| H4 | H4 |
| H5 | H5 |
| H6 | H6 |
| H7 | H7 |
| H8 | H8 |
| H9 | H9 |
| FMC_SMA_SI2 | H10 |
| FMC_SMA_SI2 | H11 |
| FMC_SMA_SI2 | H12 |
| FMC_SMA_SI2 | H13 |
| FMC_SMA_SI2 | H14 |
| FMC_SMA_SI2 | H15 |
| FMC_SMA_SI2 | H16 |
| FMC_SMA_SI2 | H17 |
| FMC_SMA_SI2 | H18 |
| FMC_SMA_SI2 | H19 |
| FMC_SMA_SI2 | H20 |
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| FMC_SMA_SI2 | H28 |
| FMC_SMA_SI2 | H29 |
| FMC_SMA_SI2 | H30 |
| FMC_SMA_SI2 | H31 |
| FMC_SMA_SI2 | H32 |
| FMC_SMA_SI2 | H33 |
| FMC_SMA_SI2 | H34 |
| FMC_SMA_SI2 | H35 |
| FMC_SMA_SI2 | H36 |
| FMC_SMA_SI2 | H37 |
| FMC_SMA_SI2 | H38 |
| FMC_SMA_SI2 | H39 |
| FMC_SMA_SI2 | H40 |

FMC400K

J2I

| | |
|---------|-----|
| J1 | J1 |
| J2 | J2 |
| J3 | J3 |
| J4 | J4 |
| J5 | J5 |
| FMC_INT | J6 |
| FMC_INT | J7 |
| FMC_INT | J8 |
| FMC_INT | J9 |
| FMC_INT | J10 |
| FMC_INT | J11 |
| FMC_INT | J12 |
| FMC_INT | J13 |
| FMC_INT | J14 |
| FMC_INT | J15 |
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| FMC_INT | J39 |
| FMC_INT | J40 |

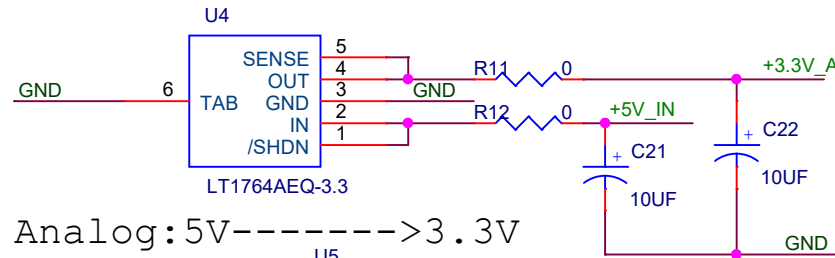
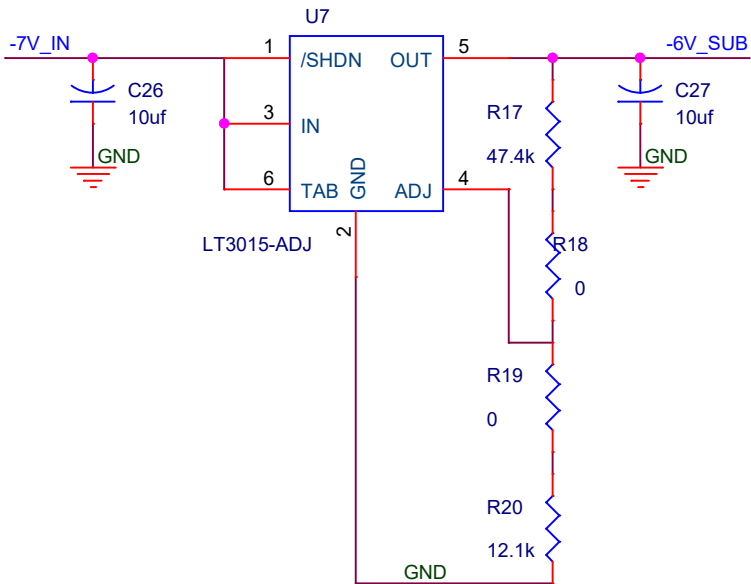
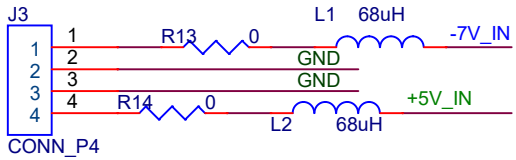
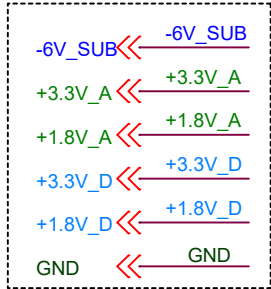
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J2J

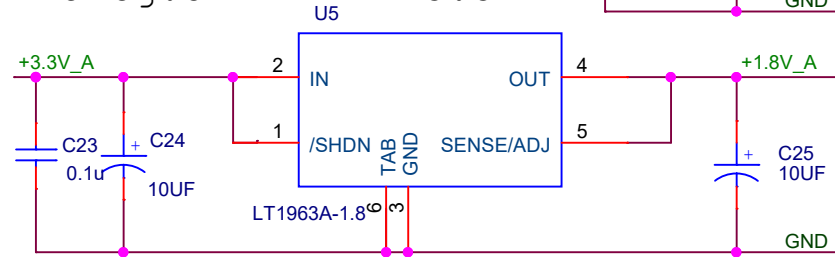
| | |
|--------------|-----|
| K1 | K1 |
| K2 | K2 |
| K3 | K3 |
| K4 | K4 |
| K5 | K5 |
| K6 | K6 |
| FMC_PLL_TMOD | K7 |
| FMC_PLL_TMOD | K8 |
| FMC_PLL_TMOD | K9 |
| FMC_PLL_TMOD | K10 |
| FMC_PLL_TMOD | K11 |
| FMC_PLL_TMOD | K12 |
| FMC_PLL_TMOD | K13 |
| FMC_PLL_TMOD | K14 |
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| FMC_PLL_TMOD | K19 |
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| FMC_PLL_TMOD | K34 |
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| FMC_PLL_TMOD | K36 |
| FMC_PLL_TMOD | K37 |
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| FMC_PLL_TMOD | K40 |

FMC400K

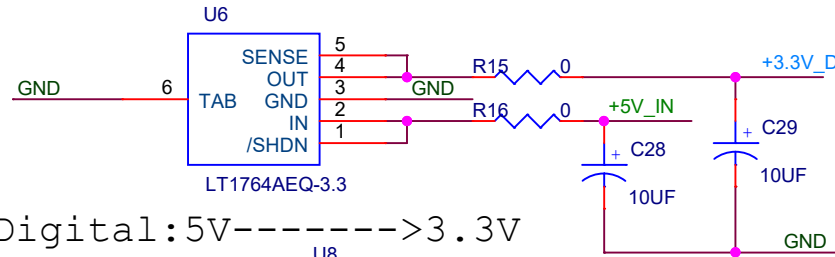
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| Title | | |
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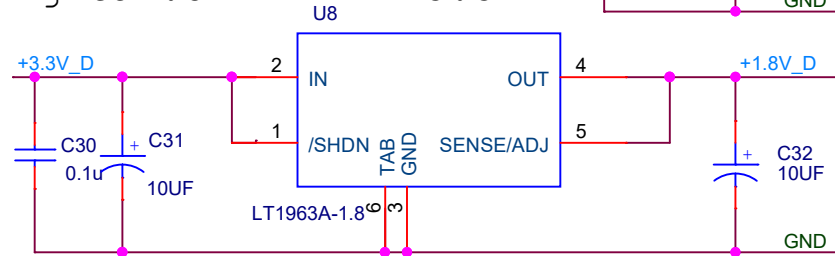
Analog: 5V -----> 3.3V



Analog: 3.3V -----> 1.8V

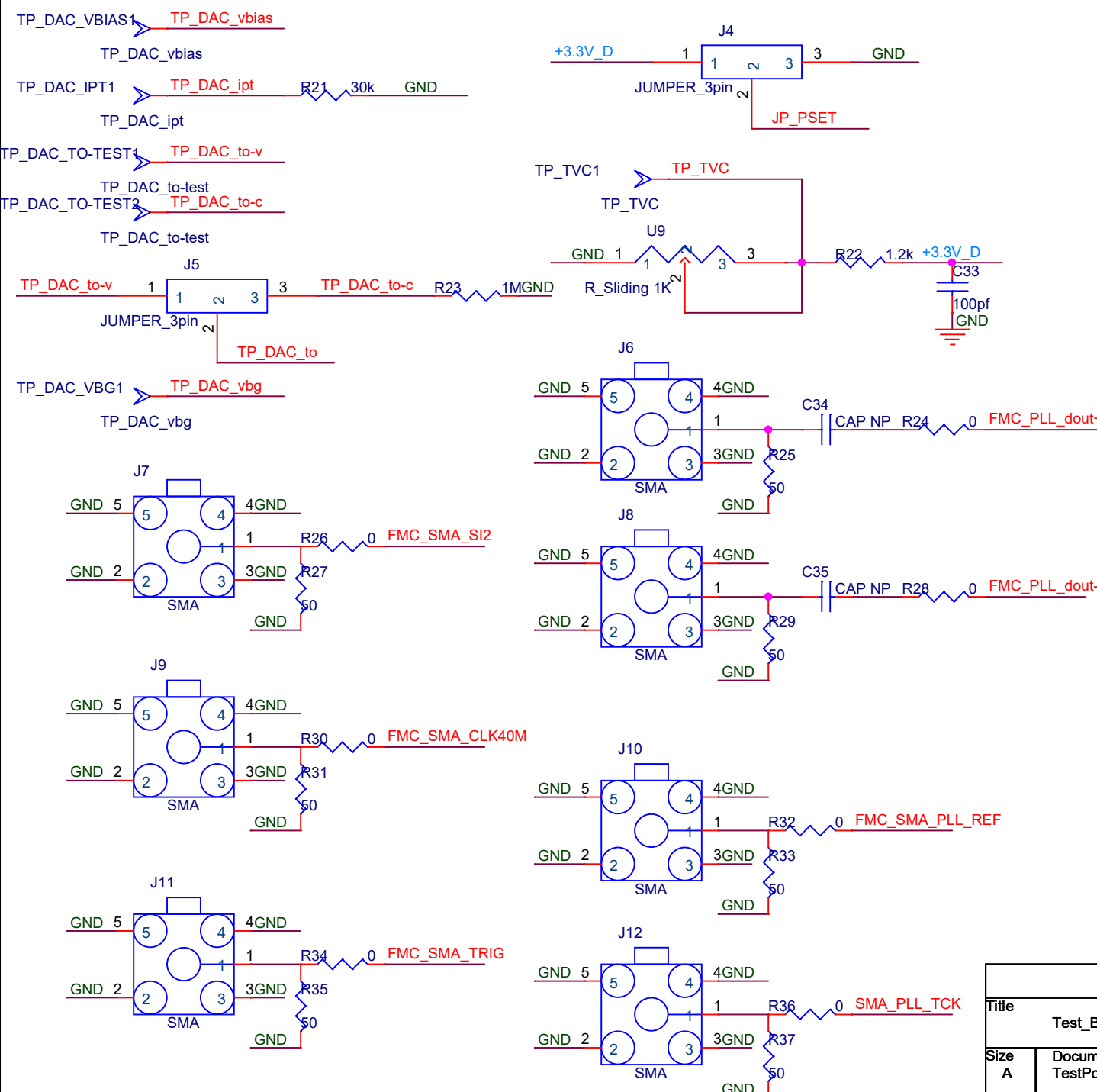


Digital: 5V -----> 3.3V



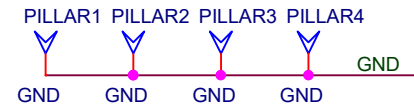
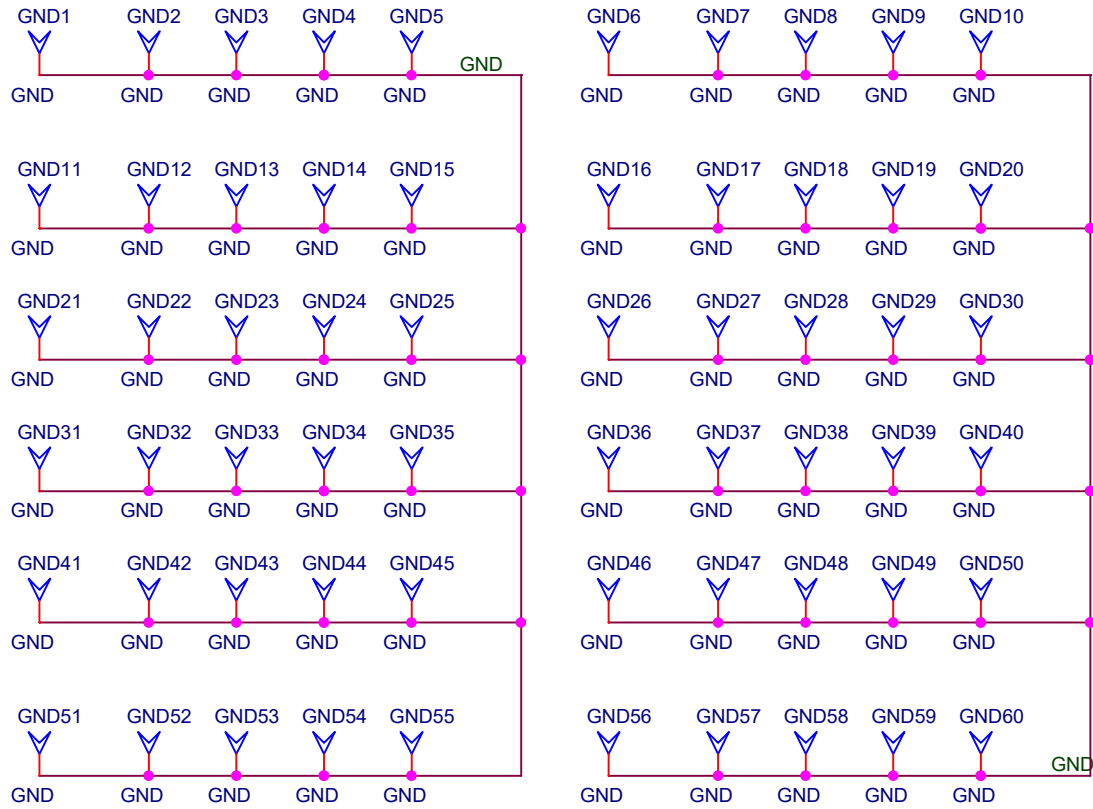
Digital: 3.3V -----> 1.8V

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| | |
|-----------------|--------------------|
| TP_DAC_vbias | << TP_DAC_vbias |
| TP_DAC_vpt | << TP_DAC_vpt |
| TP_DAC_to | << TP_DAC_to |
| TP_DAC_vbg | << TP_DAC_vbg |
| FMC_SMA_SI2 | << FMC_SMA_SI2 |
| FMC_SMA_CLK40M | << FMC_SMA_CLK40M |
| FMC_SMA_TRIG | << FMC_SMA_TRIG |
| FMC_SMA_PLL_REF | << FMC_SMA_PLL_REF |
| FMC_PLL_dout+ | << FMC_PLL_dout+ |
| FMC_PLL_dout- | << FMC_PLL_dout- |
| JP_PSET | << JP_PSET |
| SMA_PLL_TCK | << SMA_PLL_TCK |
| TP_TVC | << TP_TVC |
| GND | << GND |
| +3.3V_D | << +3.3V_D |

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