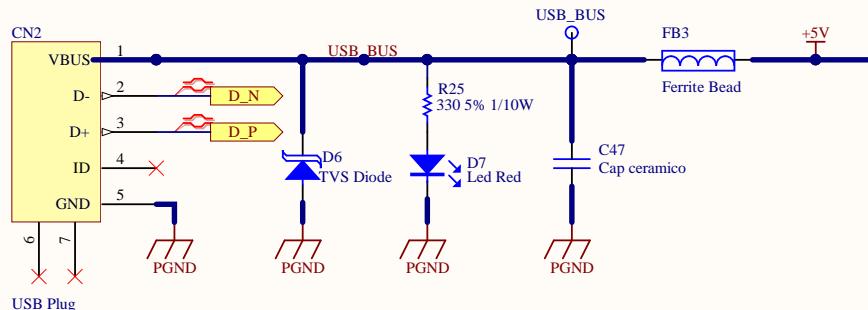
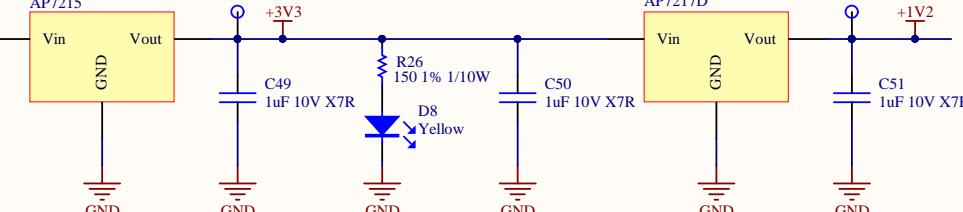
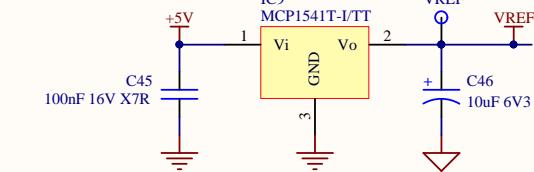


Power Stage

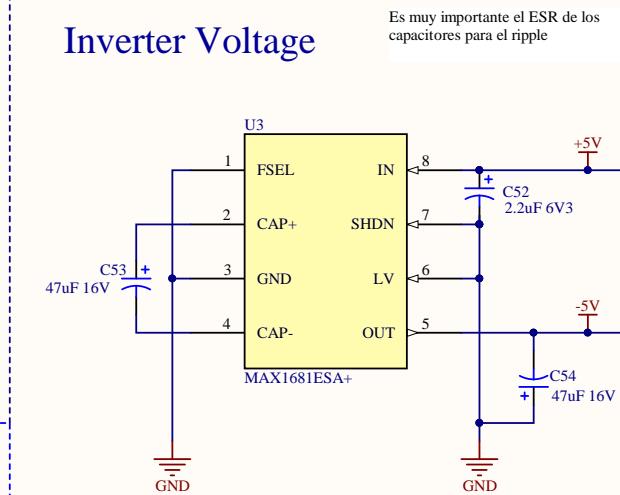
USB to +3V3 and +1V2



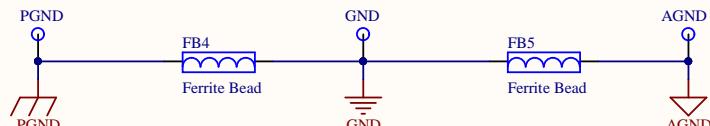
Reference Voltage



Inverter Voltage



Ground Connections



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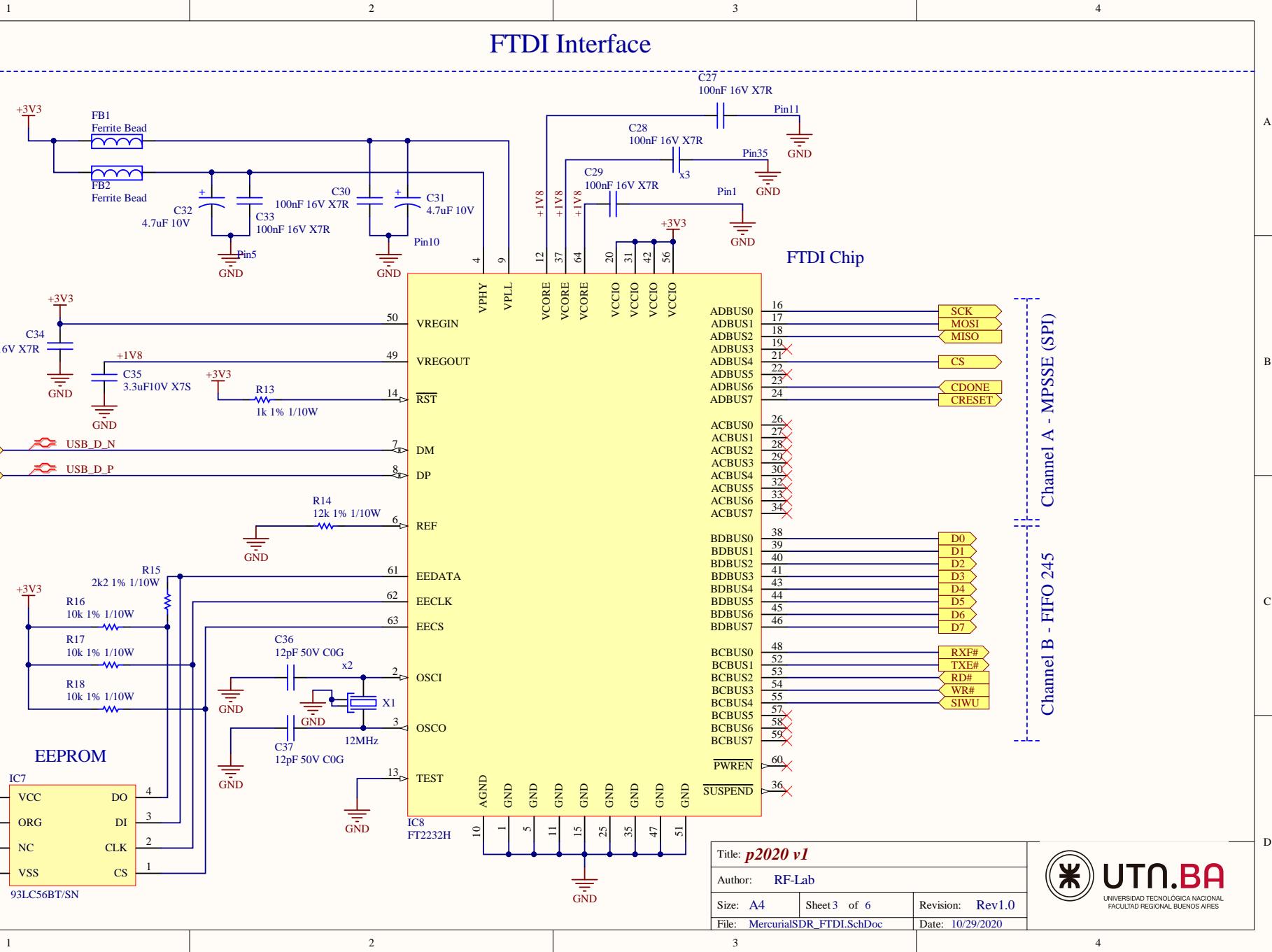
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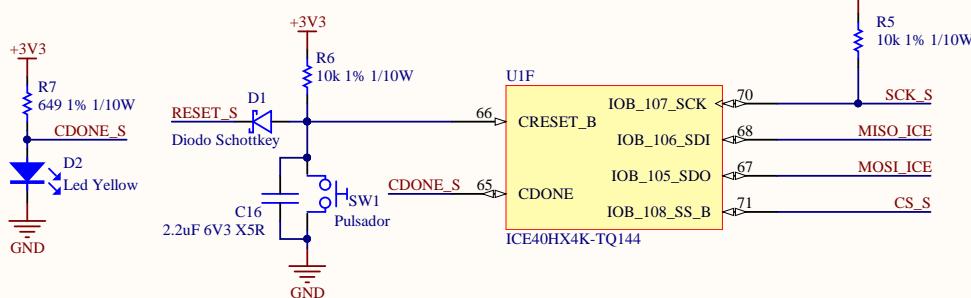
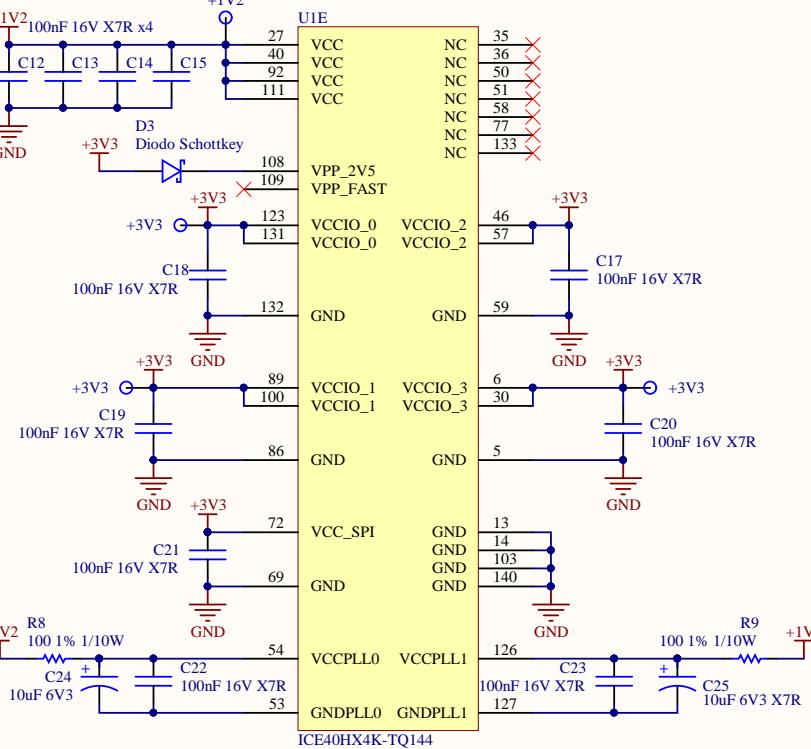
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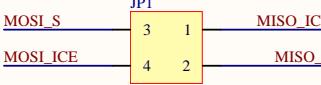
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ICE Programming & Power

iCE Power



ICE/Flash programming selection



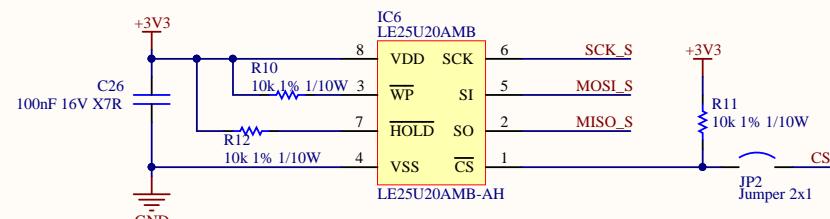
For programming ICE: shunt 1-3 & 2-4

For programming Flash: shunt 1-2 & 3-4

FTDI Ports

| | |
|---------|--------|
| SCK_S | SCK |
| MOSI_S | MOSI |
| MISO_S | MISO |
| CS_S | CS |
| CDONE_S | CDONE |
| RESET_S | CRESET |

Flash Memory



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Author: RF-Lab

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FPGA Banks

PIN93y94 son GlobalPins, pero se pueden usar como GPIOs

BANK 1

| |
|---------------|
| IOR_109 |
| IOR_110 |
| IOR_111 |
| IOR_112 |
| IOR_113 |
| IOR_114 |
| IOR_115 |
| IOR_116 |
| IOR_117 |
| IOR_118 |
| IOR_119 |
| IOR_120 |
| IOR_121 |
| IOR_122 |
| IOR_123 |
| IOR_124 |
| IOR_125 |
| IOR_126 |
| IOR_127 |
| IOR_128 |
| IOR_129 |
| IOR_130 |
| IOR_131 |
| IOR_132 |
| IOR_133 |
| IOR_134 |
| IOR_135 |
| IOR_136 |
| IOR_137 |
| IOR_138 |
| IOR_139 |
| IOR_140_GBIN3 |
| IOR_141_GBIN2 |
| IOR_144 |
| IOR_146 |
| IOR_147 |
| IOR_148 |
| IOR_149 |
| IOR_150 |
| IOR_151 |
| IOR_152 |
| IOR_153 |
| IOR_154 |
| IOR_155 |
| IOR_156 |
| IOR_157 |
| IOR_158 |
| IOR_159 |
| IOR_160 |
| IOR_161 |
| IOR_162 |
| IOR_163 |
| IOR_164 |
| IOR_165 |
| IOR_166 |
| IOR_167 |

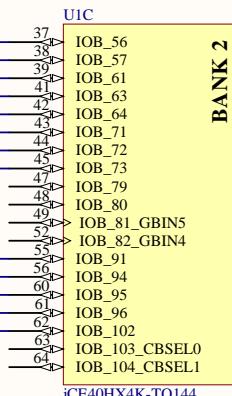
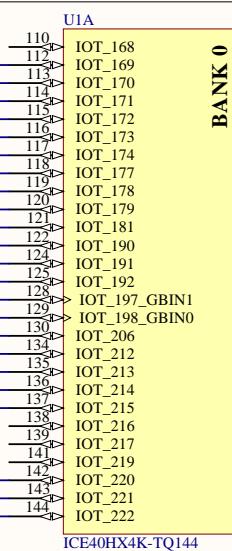
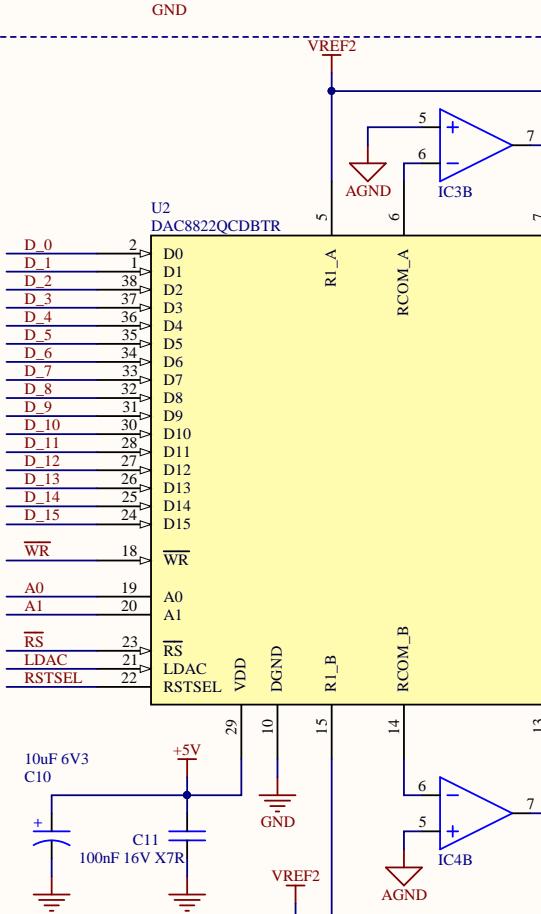
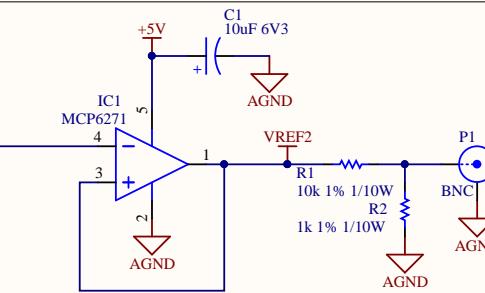
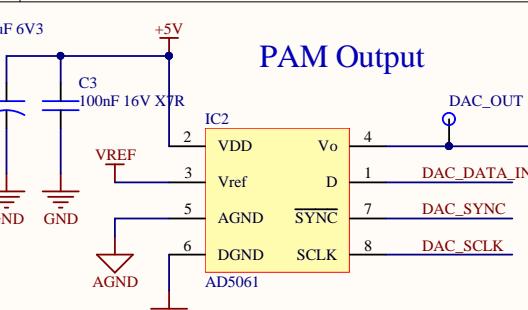
iCE40HX4K-TQ144

BANK 3

| |
|---------------|
| IOL_2A |
| IOL_2B |
| IOL_3A |
| IOL_3B |
| IOL_4A |
| IOL_4B |
| IOL_5A |
| IOL_5B |
| IOL_6A |
| IOL_6B |
| IOL_7A |
| IOL_7B |
| IOL_8A |
| IOL_8B |
| IOL_9A |
| IOL_9B |
| IOL_10A |
| IOL_10B |
| IOL_11A |
| IOL_11B |
| IOL_12A |
| IOL_12B |
| IOL_13A |
| IOL_13B |
| IOL_14A_GBIN7 |
| IOL_14A_GBIN6 |
| IOL_14B |
| IOL_15A |
| IOL_15B |
| IOL_16A |
| IOL_16B |
| IOL_17A |
| IOL_17B |
| IOL_18A |
| IOL_18B |
| IOL_19A |
| IOL_19B |
| IOL_20A |
| IOL_20B |
| IOL_21A |
| IOL_21B |
| IOL_22A |
| IOL_22B |
| IOL_23A |
| IOL_23B |
| IOL_24A |
| IOL_24B |
| IOL_25A |
| IOL_25B |

iCE40HX4K-TQ144

PAM Output



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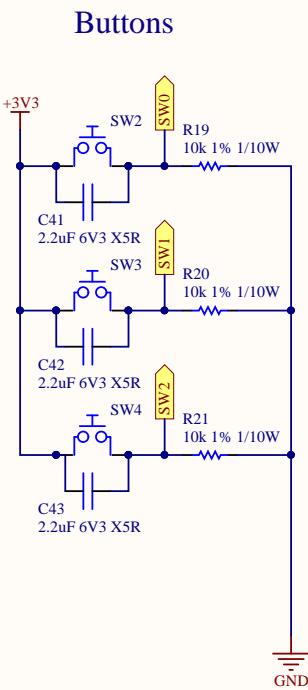
UTN.BA

UNIVERSIDAD TECNOLÓGICA NACIONAL

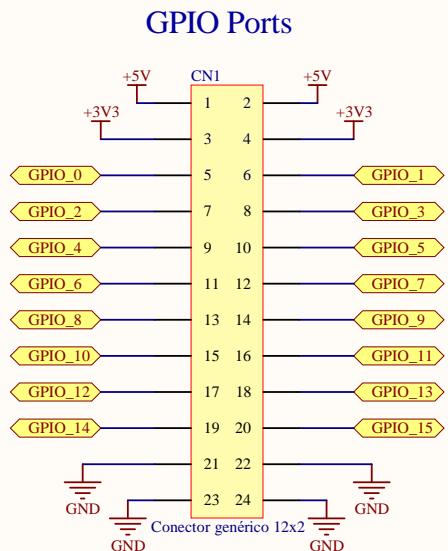
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Miscellaneous

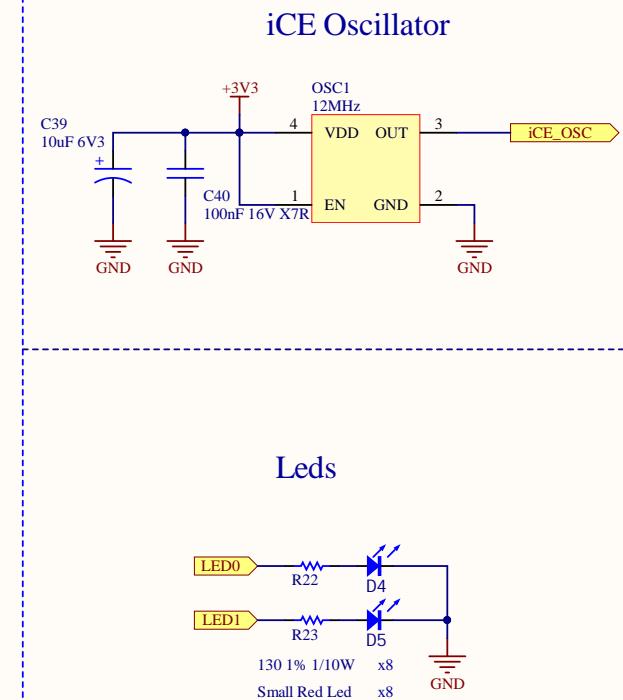
A



B



C



D

Title: *p2020 v1*

Author: RF-Lab

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