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ADC1sDxxxx(RF)RB

EXT_CLK_SELECT removed from the schematic
SPECIAL NOTES

These schematics reflect the current state of product development. This design had NOT yet been fully tested at the time these schematics were generated.

Since this product is in development, the user of this document is strongly advised to check for the latest revision.

Texas Instruments reserves the right to make changes to this product.

ALL parts labeled "NA" are NOT ASSEMBLED.

Print Instructions:
- To create a readable printout, we recommend to use A3 or 11x17" paper size.
- When printing from this PDF file, make sure to check the "Shrink to fit" box.
Do not populate R10. Pads must be placed near ADC.

ADC12Dxxxx(RF)RB

1k ohm
100 ohm
NA
NA

DCLK_RST SINGLE ENDED INPUT

ADC12Dxxx(RF)RB

1k ohm
100 ohm
NA
NA

DCLK_RST SINGLE ENDED INPUT

Do not populate R10. Pads must be placed near ADC.
LAYOUT NOTE: FOR CLOCK ROUTING DO NOT USE VIAS (LMX2531 FOUT, EXT CLK) ALL THE WAY TO VIAS AT SOCKET EDGE.
AVOID SPURS AND CHOOSE SERIES COMPONENTS TO BE 0402 SIZE WHERE POSSIBLE.

LAYOUT NOTE: Use as short traces as possible from LMX2531-FOOT (pin 21) and External Clock Input to VIAs at socket edge.

LMX2531 clock part number and loop filter component values are different based on clock frequency. Please refer to the table above for correct clock part number and loop filter components.

<table>
<thead>
<tr>
<th>Product</th>
<th>Clock Frequency (MHz)</th>
<th>Clock part no.</th>
<th>Loop filter component values</th>
<th>Oscillator (F3) Frequency (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADC1021500</td>
<td>1500</td>
<td>LMX2531LQ15000E</td>
<td>C2_LF (nF) 56</td>
<td>50/SM7744HV-50.0M</td>
</tr>
<tr>
<td>ADC1208000F</td>
<td>800</td>
<td>LMX2531LQ15700E</td>
<td>C1_LF (nF) 33</td>
<td>50/SM7744HV-50.0M</td>
</tr>
<tr>
<td>ADC12180000/16000F</td>
<td>1600</td>
<td>LMX2531LQ15700E</td>
<td>C2_LF (nF) 33</td>
<td>50/SM7744HV-50.0M</td>
</tr>
<tr>
<td>ADC12180000/18000F</td>
<td>1800</td>
<td>LMX2531LQ1778E</td>
<td>C1_LF (nF) 47</td>
<td>60/SM7744HV-60.0M</td>
</tr>
<tr>
<td>ADC1220000F</td>
<td>2000</td>
<td>LMX2531LQ1910E</td>
<td>C2_LF (nF) 33</td>
<td>50/SM7744HV-50.0M</td>
</tr>
</tbody>
</table>
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