NOTE: WHEN USING TRF3705 REPLACE TPS76750 WITH TPS76733.
HOLES FOR THE RF SHIELDS

**THE BOM ADDS ANOTHER SET OF STANDOFFS TO INCREASE THE BOARD HEIGHT.**

STANDOFF, F/F, 4-40THR, 1" SS

KEYSTONE 2092

BARE BOARD

MT1
STANDOFF, M/F, 4-40THR, 1/2" SS

MT2
STANDOFF, M/F, 4-40THR, 1/2" SS

MT4
STANDOFF, M/F, 4-40THR, 1/2" SS

MT3
STANDOFF, M/F, 4-40THR, 1/2" SS

**HOLES FOR THE RF SHIELDS**

SH1
RF SHIELD, LARGE

SH2
RF SHIELD, LARGE

SH3
RF SHIELD, LARGE

SH4
RF SHIELD, LARGE

SH5
RF SHIELD, LARGE

SH6
RF SHIELD, LARGE

SH7
RF SHIELD, LARGE

SH8
RF SHIELD, LARGE

SH9
RF SHIELD, LARGE

SH10
RF SHIELD, LARGE

SH11
RF SHIELD, LARGE

SH12
RF SHIELD, SMALL

SH13
RF SHIELD, SMALL

SH14
RF SHIELD, SMALL

SH15
RF SHIELD, SMALL

SH16
RF SHIELD, SMALL

SH17
RF SHIELD, SMALL
RX MIXER AND AMPLIFIER
PATH 1 (RXIN1)

TABLE 3
<table>
<thead>
<tr>
<th>LO/RF FREQ</th>
<th>C463</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1500MHz</td>
<td>3.9pF</td>
</tr>
<tr>
<td>&gt; 1500MHz</td>
<td>DNI</td>
</tr>
</tbody>
</table>

+3.3V
92mA
RX AMPLIFIER AND FILTER
PATH 1 (RXIN1)
**FEEDBACK MIXER**

**TABLE 2**

<table>
<thead>
<tr>
<th>RF FREQ</th>
<th>LO FREQ</th>
<th>U48</th>
<th>C579, C581, C583, C587, C589</th>
<th>C582</th>
<th>C586</th>
<th>C584</th>
<th>C591</th>
<th>R308</th>
</tr>
</thead>
<tbody>
<tr>
<td>815-1000MHz</td>
<td>570-900MHz</td>
<td>MAX2029</td>
<td>82pF</td>
<td>0.01uF</td>
<td>82pF</td>
<td>82pF</td>
<td>3.3pF</td>
<td>523</td>
</tr>
<tr>
<td>650-1000MHz</td>
<td>650-1250MHz</td>
<td>MAX2031</td>
<td>82pF</td>
<td>0.01uF</td>
<td>82pF</td>
<td>82pF</td>
<td>2pF</td>
<td>523</td>
</tr>
<tr>
<td>1700-2400MHz</td>
<td>1550-2250MHz</td>
<td>MAX2039</td>
<td>22pF</td>
<td>22pF</td>
<td>DNI</td>
<td>4pF</td>
<td>DNI</td>
<td>549</td>
</tr>
<tr>
<td>1500-2350MHz</td>
<td>1650-2700MHz</td>
<td>MAX2041</td>
<td>22pF</td>
<td>22pF</td>
<td>DNI</td>
<td>4pF</td>
<td>DNI</td>
<td>549</td>
</tr>
</tbody>
</table>

**DEFAULT**

**SEE TABLE 2**

**MIX2039**

**MIX2041**

**TSW3725**

**IF DRIVERS & DEMODULATOR**

**Texas Instruments**

**Date:** Monday, November 04, 2013
FEEDBACK AMPLIFIER AND FILTER

PLACE ON SOLDER SIDE

100 OHM DIFF

PLACE ON SOLDER SIDE

100 OHM DIFF

DEMODULATOR
DCLK TRACE CAN NOT
EXCEED 15pF

PLACE 10pF CAPS
CLOSE TO EPCS4
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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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