**NOTE:** Component values depend on board version.

<table>
<thead>
<tr>
<th>VERSION</th>
<th>IF FREQ.</th>
<th>LO FREQ.</th>
<th>RF FREQ.</th>
<th>C1, C2</th>
<th>C9</th>
<th>C3</th>
<th>C8</th>
<th>L3</th>
<th>C14</th>
<th>Z1</th>
<th>C13</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC1545A-A</td>
<td>240MHz</td>
<td>2190MHz</td>
<td>1950MHz</td>
<td>82pF</td>
<td>33pF</td>
<td>4.7pF</td>
<td>—</td>
<td>2.4nH</td>
<td>1.5pF</td>
<td>0 Ohm</td>
<td>—</td>
</tr>
<tr>
<td>DC1545A-B</td>
<td>140MHz</td>
<td>760MHz</td>
<td>900MHz</td>
<td>220pF</td>
<td>39pF</td>
<td>—</td>
<td>1.8pF</td>
<td>12nH</td>
<td>—</td>
<td>5.6pF</td>
<td>2.7pF</td>
</tr>
</tbody>
</table>

**CUSTOMER NOTICE**

LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

**TITLE:**

LT5578IUH

**HIGH LINEARITY UPCONVERTING MIXER**

**FILENAME:**

DC1545A-A/B

**DRAWN:** HELEN Z.

**CHECKED:** HELEN Z.

**APPROVED:** HELEN Z.

**ENGINEER:** SUNNY H.

**DESIGNER:** SUNNY H.

**DATE:** 4/07/09

**CONTRACT NO.:**

**APPROVALS:**

**CAGE CODE:**

**DWG NO.:**

**REV.:**}

**FILENAME:**

**SHEET:** 1

**OF:** 1

**DATE:** Thursday, September 03, 2009

**SCALE:**