### PRODUCT/PROCESS CHANGE NOTICE (PCN)

**PCN Number:** PCN 19011A (Addendum)

**Date Issued:** 12/05/2020

**Product(s) Affected:**
- XRP6658ISTR-F
- SP6669AEK-L/TRR3

**Manufacturing Location Affected:** N/A

**Date Effective (90 day window):** 02/19/2020

**Date Issued +90 days:** 05/19/2020

**Contact:** Your local MaxLinear Marketing Representative or contact our Customer Support team by creating a Support Ticket at [http://www.maxlinear.com/support/createcase](http://www.maxlinear.com/support/createcase)

**Phone:** 1-760-692-0711

**Description and Purpose of Change:**

Due to the obsolescence of an old process, both XRP6658 and SP6669 have been migrated to a later process technology. With these changes, key specifications have been greatly improved:

<table>
<thead>
<tr>
<th>Improvements</th>
<th>XRP6658</th>
<th>SP6669</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old (PMOS/NMOS)</td>
<td>0.24Ohm / 0.21Ohm</td>
<td>0.24Ohm / 0.24Ohm</td>
</tr>
<tr>
<td>New (PMOS/NMOS)</td>
<td>0.22Ohm / 0.17Ohm</td>
<td>&lt;No change&gt;</td>
</tr>
<tr>
<td>Operating Current (Old → New)</td>
<td>N/A</td>
<td>800mA → &lt;No change&gt;</td>
</tr>
</tbody>
</table>

Due to the change in process, there are minor changes to the following specifications:

<table>
<thead>
<tr>
<th>Changes</th>
<th>XRP6658 (Old → New)</th>
<th>SP6669 (Old → New)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiescent Current</td>
<td>15uA → 30uA</td>
<td>18uA → &lt;No change&gt;</td>
</tr>
<tr>
<td>UVLO Threshold</td>
<td>1.8V → 2V</td>
<td></td>
</tr>
<tr>
<td>Feedback Current</td>
<td>±30nA → &lt;No change&gt;</td>
<td></td>
</tr>
</tbody>
</table>

Graphs and waveforms in the datasheet have been improved to show the key performance characteristics.

**ADDENDUM:** Changes originally planned for SP6669 have been cancelled at this time.

**Reliability/Qualification Summary:** Reliability reports available upon request.
Customer Acknowledgement of Receipt within 30 days of issue. Lack of acknowledgement within 30 days constitutes acceptance of change.

Please fax or email this form to the contact above after completing the following information:

Customer: ____________________________
Name: ________________________________
Title: ________________________________
Date: ________________________________
E-Mail: ________________________________
Phone: ________________________________
Fax: ________________________________

☐ Approval for shipments prior to effective date

Customer Comments (Optional):