

## Product Change Notice (PCN)

**Subject:** Design Change for the Listed ISL8130\* Intersil Products

**Publication Date:** 4/22/2016

**Effective Date:** 7/22/2016

**Revision Description:**

Initial Release

**Description of Change:**

This notice is to advise our customers of a minor silicon design revision for the listed ISL8130\* products. The change is a single level mask change that slightly decreases the bandwidth, however, increases the phase margin. There is no change to the electrical table in the datasheet.

Current:	BW= 2.12MHz,	PM= 70 degree
New:	BW = 950kHz,	PM= 81 degree

**Affected Product:**

ISL8130IAZ	ISL8130IAZ-TK	ISL8130IRZ-T7A	ISL8130IRZ-TK
ISL8130IAZ-T7A	ISL8130IRZ	ISL8130IRZ-T7AR5194	ISL8130IRZ-TKR5194

**Reason for Change:**

Noise immunity improvement and product enhancement through a minor design change to reduce bandwidth and increase phase margin.

**Impact on fit, form, function, quality & reliability:**

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the devices.

**Product Identification:**

There will be no change in the external marking of the packaged parts or to the product data sheet electrical specification. The product will be identifiable via Intersil’s internal traceability system.

**Qualification status:** Technology qualification complete, see Appendix A

**Sample availability:** 5/23/2016

**Device material declaration:** Available upon request

*Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Intersil within 30 days of the publication date.*

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: <a href="mailto:PCN-US@INTERSIL.COM">PCN-US@INTERSIL.COM</a>	Europe: <a href="mailto:PCN-EU@INTERSIL.COM">PCN-EU@INTERSIL.COM</a>	Japan: <a href="mailto:PCN-JP@INTERSIL.COM">PCN-JP@INTERSIL.COM</a>	Asia Pac: <a href="mailto:PCN-APAC@INTERSIL.COM">PCN-APAC@INTERSIL.COM</a>

Appendix A - Qualification Results

Stress / Conditions	Duration	ISL6312CRZ-T 48 LEAD 7x7 QFN	ISL6420AIRZ_T 20 LEAD 4x4 QFN	ISL6536IBZA <sup>2</sup> 8 LEAD SOIC
Moisture Sensitivity Classification		N = 48 Pass L3 PBFREE	N = 22 Pass L2 PBFREE	N = 44 Acc = 0 L1 PBFREE
High Temperature Operating Life T <sub>A</sub> @ + 125°C	1000 Hrs	N = 156 Pass	N = 155 Pass	N = 79 Acc = 0
Biased HAST +130C / 85% RH	96 Hrs	N = 78 Pass	N = 78 Pass	N = 80 Acc = 0
High Temperature Storage T <sub>A</sub> = +150C	1000 Hrs	N = 222 <sup>1</sup> Pass	N = 78 Pass	N = 78 Acc = 0
Unbiased HAST +130C / 85% RH	96 Hrs	N = 240 Pass	N = 78 Pass	N = 80 Acc = 0
Temp Cycle +150C / -65C	500 Cy	N = 240 Pass	N = 80 Pass	N = 80 Acc = 0

Notes:

- 1 Single unit failure, corrective action completed
- 2 Additional product qualification results