**PART NUMBER(S):**
Refer to Attachment A (SP331)

**PCN No.:** 10-0201-03

**DATE:** February 22, 2010

**PART DESCRIPTION:**
See www.exar.com

**LEVEL OF CHANGE:**
[X] Level I, Customer Approval.  
[ ] Level II, Customer Information.

**PRODUCT ATTRIBUTE AFFECTED:**
[X] Material Change  
[ ] Design Change  
[X] Process Change  
[ ] Other, Explain:

**DESCRIPTION OF THE PROPOSED CHANGE:**
P-well implant dose for Silan 5u CMOS process is changed from 8.5E12 to 10.5E12 ION/cm². The SP331 meets all original datasheet specification. Information was added to the original datasheet to clarify the maximum data rate limit of 8Mbps at Ta=85°C. In addition, a note was added to indicate that exceeding the maximum data rate of 8 Mbps at Ta= 85°C may permanently damage the device due to the risk of overheating.

**REASON FOR CHANGE:**
Process optimization and clarify conditions for the datasheets parameters.

**DATE OF SAMPLES AVAILABLE:**
February 2010

**DATE OF QUALIFICATION COMPLETED:**
December 2009
**PRODUCT CHANGE NOTICE**

<table>
<thead>
<tr>
<th>ESTIMATED CHANGE DATE OR DATE CODE:</th>
<th>SUPPORTING DATA:</th>
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<tr>
<td>Minor process change - May 2010 Datasheet - Immediate</td>
<td>Qualification and characterization reports</td>
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</tbody>
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[X] STANDARD DISTRIBUTION      [ ] CUSTOM DISTRIBUTION

PERSON TO CONTACT WITH QUESTIONS:
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lisa.bedard@exar.com

Please acknowledge receipt of this PCN.

Acknowledged:

______________________________
Signature

______________________________
Printed Name

______________________________
Company

______________________________
Title

______________________________
Date

Approved ☐  Not Approved ☐ (Approved/Not Approved section not applicable and should be removed for all Level II PCNs)

Comments: ________________________________________________________________

**PROPRIETARY INFORMATION**

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## ATTACHMENT A

### EXAR PART NUMBERS

**PCN# 10-0201-03**

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>PACKAGE</th>
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<tr>
<td>SP331CT-L</td>
<td>28pin SOIC</td>
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