

Notification Number:	20200625007	Notification Date:	June 29, 2020
Title:	Datasheet for AMC1311 and AMC1311-Q1		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

Notification Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



AMC1311-Q1

SBAS897B – MARCH 2018–REVISED MAY 2020

Changes from Revision A (June 2018) to Revision B	Page
• Changed automotive-specific <i>Features</i> bullets	1
• Added Functional Safety-Capable bullets to <i>Features</i> list	1
• Changed AMC1311B-Q1 offset drift from $\pm 15 \mu V/^{\circ}C$ (<i>max</i>) to $10 \mu V/^{\circ}C$ (<i>max</i>) in <i>Features</i> section	1
• Changed AMC1311B-Q1 gain error from $\pm 0.3%$ (<i>max</i>) to $\pm 0.2%$ (<i>max</i>) and changed AMC1311B-Q1 gain drift from $\pm 45 ppm/^{\circ}C$ (<i>max</i>) to $\pm 40 ppm/^{\circ}C$ (<i>max</i>) in <i>Features</i> section	1
• Changed safety-related certifications details as per ISO standard	1
• Changed AMC1311B-Q1 values for TCV_{OS} , E_G , and TCE_G in <i>Device Comparison Table</i>	4
• Added ESD classification levels to <i>ESD Ratings</i> table	5
• Changed CLR and CPG values from 9 mm to 8.5 mm	7
• Changed <i>Insulation Specifications</i> table per ISO standard	7
• Changed <i>Safety-Related Certification</i> table per ISO standard	8
• Changed <i>Safety Limiting Values</i> description as per ISO standard	8
• Changed TCV_{OS} parameter minimum value from $-15 \mu V/^{\circ}C$ to $-10 \mu V/^{\circ}C$ and maximum value from $15 \mu V/^{\circ}C$ to $10 \mu V/^{\circ}C$ for the AMC1311B-Q1 in the <i>Electrical Characteristics</i> table	9
• Changed E_G parameter minimum value from $-0.3%$ to $-0.2%$ and maximum value from $0.3%$ to $0.2%$ for the AMC1311B-Q1 in the <i>Electrical Characteristics</i> table	9
• Changed TCE_G parameter minimum value from $-45 ppm/^{\circ}C$ to $-40 ppm/^{\circ}C$ and maximum value from $45 ppm/^{\circ}C$ to $40 ppm/^{\circ}C$ for the AMC1311B-Q1 in the <i>Electrical Characteristics</i> table	9
• Changed <i>Step Response of the AMC1311B-Q1</i> figure	25

Changes from Revision A (June 2018) to Revision B	Page
• Changed AMC1311B offset drift from $\pm 15 \mu\text{V}/^\circ\text{C}$ (max) to $10 \mu\text{V}/^\circ\text{C}$ (max) in <i>Features</i> section.....	1
• Changed AMC1311B gain error from $\pm 0.3\%$ (max) to $\pm 0.2\%$ (max) and changed AMC1311B gain drift from $\pm 45 \text{ ppm}/^\circ\text{C}$ (max) to $\pm 40 \text{ ppm}/^\circ\text{C}$ (max) in <i>Features</i> section	1
• Changed safety-related certifications details as per ISO standard	1
• Changed <i>IEC 60950-1</i> and <i>IEC60065</i> to <i>IEC 62368-1</i>	1
• Changed AMC1311B values for TCV_{OS} , E_{G} , and TCE_{G} in <i>Device Comparison Table</i>	3
• Changed CLR and CPG values from 9 mm to 8.5 mm.....	6
• Changed <i>Insulation Specifications</i> table per ISO standard	6
• Changed <i>Safety-Related Certification</i> table per ISO standard.....	7
• Changed <i>Safety Limiting Values</i> description as per ISO standard	7
• Changed TCV_{OS} parameter minimum value from $-15 \mu\text{V}/^\circ\text{C}$ to $-10 \mu\text{V}/^\circ\text{C}$ and maximum value from $15 \mu\text{V}/^\circ\text{C}$ to $10 \mu\text{V}/^\circ\text{C}$ for the AMC1311B in the <i>Electrical Characteristics</i> table	8
• Changed E_{G} parameter minimum value from -0.3% to -0.2% and maximum value from 0.3% to 0.2% for the AMC1311B in the <i>Electrical Characteristics</i> table	8
• Changed TCE_{G} parameter minimum value from $-45 \text{ ppm}/^\circ\text{C}$ to $-40 \text{ ppm}/^\circ\text{C}$ and maximum value from $45 \text{ ppm}/^\circ\text{C}$ to $40 \text{ ppm}/^\circ\text{C}$ for the AMC1311B in the <i>Electrical Characteristics</i> table.....	8
• Changed <i>Step Response of the AMC1311B</i> figure.....	24

The datasheet number will be changing.

Device Family	Change From:	Change To:
AMC1311-Q1	SBAS897A	SBAS897B
AMC1311	SBAS786A	SBAS786B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/AMC1311-Q1>

<http://www.ti.com/product/AMC1311>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this notification:

None.

Product Affected:

AMC1311BQDWVQ1	AMC1311BQDWVRQ1	AMC1311QDWVQ1	AMC1311QDWVRQ1
AMC1311BDWV	AMC1311BDWVR	AMC1311DWV	AMC1311DWVR

For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

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