12500 TI Boulevard, MS 8640, Dallas, Texas 75243

Notification# 20200625007
Datasheet for AMC1311 and AMC1311-Q1
Information Only

Date: June 29, 2020
To: TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

This is an information-only announcement of a change to the datasheet for a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the PCN team (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

Information Only
Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
AMC1311DWVR	null
AMC1311BDWVR	null
AMC1311DWV	null
AMC1311BQDWVRQ1	null
AMC1311QDWVRQ1	null
AMC1311BDWV	null

Technical details of this Product Change follow on the next page(s).

Notification Number:	20200625007	Notification Date:	June 29, 2020
Title:	Datasheet for AMC1311 and AMC1311-Q1		
Customer Contact:	PCN Manager	Dept:	Quality Services

Change Type:

☐	Assembly Site	☐	Design	☐	Wafer Bump Site
☐	Assembly Process	☒	Data Sheet	☐	Wafer Bump Material
☐	Assembly Materials	☐	Part number change	☐	Wafer Bump Process
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials
				☐	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.

TEXAS INSTRUMENTS

AMC1311-Q1

SBAS897B – MARCH 2018 – REVISED MAY 2020

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

Changes from Revision A (June 2018) to Revision B **Page**

- Changed AMC1311B offset drift from ±*15 µV/°C (max)* to *10 µV/°C (max)* in *Features* section 1
- Changed AMC1311B gain error from ±*0.3% (max)* to ±*0.2% (max)* and changed AMC1311B gain drift from ±*45 ppm/°C (max)* to ±*40 ppm/°C (max)* in *Features* section 1
- Changed safety-related certifications details as per ISO standard 1
- Changed *IEC 60950-1 and IEC60065* to *IEC 62368-1* 1
- Changed AMC1311B values for TCV_{OS}, E_G, and TCE_G in *Device Comparison Table* 3
- Changed CLR and CPG values from 9 mm to 8.5 mm 6
- Changed *Insulation Specifications* table per ISO standard 6
- Changed *Safety-Related Certification* table per ISO standard 7
- Changed *Safety Limiting Values* description as per ISO standard 7
- Changed TCV_{OS} parameter minimum value from *–15 µV/°C* to *–10 µV/°C* and maximum value from *15 µV/°C* to *10 µV/°C* for the AMC1311B in the *Electrical Characteristics* 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 *Electrical Characteristics* table 8
- Changed TCE_G parameter minimum value from *–45 ppm/°C* to *–40 ppm/°C* and maximum value from *45 ppm/°C* to *40 ppm/°C* for the AMC1311B in the *Electrical Characteristics* table 8
- Changed *Step Response of the AMC1311B* 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.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
WW PCN Team	PCN_ww_admin_team@list.ti.com

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI’s products are provided subject to TI’s Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI’s provision of these resources does not expand or otherwise alter TI’s applicable warranties or warranty disclaimers for TI products.