



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**Notification# 20240830002.0**

**Datasheet for LM5177, AWR2943/AWR2944, LMH6702QML-SP  
Information Only**

**Date:** September 04, 2024

**To:** MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to 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 Change Management team.

Sincerely,

Change Management Team  
SC Business Services

**320240830002.0**  
**Information Only Datasheet**  
**Attachments**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
AWR2943ABGALTQ1	NULL
AWR2944ABGALTQ1	NULL
LM5177DCPR	NULL

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

<b>PCN Number:</b>	20240830002.0	<b>PCN Date:</b>	September 04, 2024
<b>Title:</b>	Datasheet for LM5177, AWR2943/AWR2944, LMH6702QML-SP		
<b>Customer Contact:</b>	Change Management team	<b>Dept:</b>	Quality Services
<b>Change Type:</b>	Electrical Specification		

### PCN 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.



LM5177

SNVSBU4E – JUNE 2022 – REVISED AUGUST 2024

#### Changes from Revision D (August 2023) to Revision E (August 2024)

Page

• Removed misleading sentence from MODE pin description: "If this function is not used, connect the pin to VCC or GND.".....	3
• Adjusted max parameter value for HB1 to SW1 and HB2 to SW2 from 7.8V to 6.4V.....	6
• Changed reference to PGND and fixed lower limit for LO1, LO2, to PGND (DC) from -5V to -0.3V .....	6
• Added HOx to SWx parameter.....	6
• Fixed title of Figure 6-20.....	13
• Updated description for the enter condition of Buck-Boost mode (Buck and Boost mode entry was swapped). ....	21
• Use upper case D for duty cycle .....	25
• Updated calculation of CSA/CSB filter to use minimum ontime.....	29
• Aligned R_CFG setting 3 with value in Recommended Operating Conditions.....	33
• Fixed link to Quickstart Calculator.....	40
• Added system example for Parallel (Multiphase) Operation.....	52



AWR2943, AWR2944, AWR2944LC

SWRS273C – NOVEMBER 2021 – REVISED JULY 2024

#### Changes from May 10, 2024 to July 30, 2024 (from Revision B (May 2024) to Revision C (July 2024))

Page

• (Features) : Added AWR2944LC part to Features bullets.....	1
• (Global) : Updated HWA references from 2.0 to 2.1.....	1
• (Description) : Added AWR2944ALBGALTQ1 to Device Information table.....	2
• (Description) : Added Device Variant column to Device Information table.....	2
• (Device Comparison) : Added AWR2944LC column.....	6
• (Signal Descriptions - Digital): Added LVDS and Aurora interfaces note.....	25
• (Overview) : Removed second paragraph.....	68
• (Transmit Subsystem) : Updated transmit chain value.....	70



LMH6702QML-SP

SNOSAQ2F – JULY 2005 – REVISED AUGUST 2024

#### Changes from Revision E (March 2013) to Revision F (August 2024)

Page

• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Changed input bias current noninverting limits from $\pm 0.3\mu\text{A}$ to $\pm 0.75\mu\text{A}$ for NAC package type in <i>LMH6702 Electrical Characteristics Drift Values Parameters</i> .....	5
• Changed input offset voltage limits from $\pm 0.3\text{mA}$ to $\pm 1\text{mV}$ for NAC package type in <i>LMH6702 Electrical Characteristics Drift Values Parameters</i> .....	5

The datasheet number will be changing.

Device Family	Change From:	Change To:
LM5177	SNVSBU4D	<b>SNVSBU4E</b>
AWR2943/AWR2944	SWRS273B	<b>SWRS273C</b>
LMH6702QML-SP	SNOSAQ2E	<b>SNOSAQ2F</b>

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/LM5177>

<http://www.ti.com/product/AWR2943>

<http://www.ti.com/product/LMH6702QML-SP>

**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 PCN:**

None.

**Product Affected:**

LM5177DCPR	AWR2943ABGALTQ1	AWR2943ABGALTRQ1	AWR2944ABGALTQ1
AWR2944ABGALTRQ1	AWR2944ALBGALTQ1	AWR2944ALBGALTRQ1	5962-0254601VPA
5962-0254601VZA	5962F0254601VPA	5962F0254601VZA	5962F0254602VPA
LMH6702J-QMLV	LMH6702JFLQMLV	LMH6702JFQMLV	LMH6702WG-QMLV
LMH6702WGFQMLV			

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

#### 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](http://www.ti.com/legal/termsofsale.html)) or other applicable terms available either on [ti.com](http://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.