



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN#20141217000**  
**Qualification of alternate Bond Wire Material (Au)**  
**for the LM43602/3PWP family of Devices**  
**Change Notification / Sample Request**

**Date:** 1/12/2015  
**To:** Newark/Farnell PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

Sincerely,

PCN Team  
SC Business Services  
Phone: +1(214) 480-6037  
Fax: +1(214) 480-6659

**20141217000**  
**Attachment: 1**

**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.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
LM43602PWPT	null
LM43603PWPT	null

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

<b>PCN Number:</b>	20141217000			<b>PCN Date:</b>	12/18/2014						
<b>Title:</b>	Qualification of alternate Bond Wire Material (Au) for the LM43602/3PWP family of devices										
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Phone:</b>	+1(214)480-6037	<b>Dept:</b>	Quality Services						
<b>Proposed 1<sup>st</sup> Ship Date:</b>	03/18/2015	<b>Estimated Sample Availability:</b>		Date provided upon request							
<b>Change Type:</b>											
<input type="checkbox"/>	Assembly Site	<input checked="" type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials						
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification						
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process						
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process						
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process						
	<input type="checkbox"/>	Part number change									
<b>PCN Details</b>											
<b>Description of Change:</b>											
<p>Texas Instruments is pleased to announce the qualification of Gold as an alternate bond wire for the LM43602/3PWP family of devices.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>What</th> <th>Current</th> <th>New</th> </tr> </thead> <tbody> <tr> <td>Bond Wire Composition/Diameter</td> <td>Cu/2.0 mils</td> <td><b>Au/2.0 mils &amp; Cu/2.0 mils</b></td> </tr> </tbody> </table>						What	Current	New	Bond Wire Composition/Diameter	Cu/2.0 mils	<b>Au/2.0 mils &amp; Cu/2.0 mils</b>
What	Current	New									
Bond Wire Composition/Diameter	Cu/2.0 mils	<b>Au/2.0 mils &amp; Cu/2.0 mils</b>									
<b>Reason for Change:</b>											
Continuity of Supply											
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>											
None											
<b>Changes to product identification resulting from this PCN:</b>											
None											
<b>Product Affected</b>											
LM43602PWP	LM43602PWPT	LM43603PWPR	LM43603PWPT								
LM43602PWPR	LM43603PWP										

### Qualification Report

**New Product Qualification LM43603PWP, LBC8+MetDCu (DMOS5) 16-pin HTSSOP (PWP) MSL2 260C, AU wire 2mil, TI-TL (Taiwan).**  
Approved 12/16/2014

#### Product Attributes

Attributes	Qual Device: LM43603PWP	QBS Product: LM43602PWP	QBS Product: LM46002PWP	QBS Product: LM46002PWP	QBS Process: LM43603PWP	QBS Package: BUF16821AIPWPRQ1	QBS Package: LM43603PWP
Assembly Site	TITL (TAI)	TITL (TAI)	TITL (TAI)	TITL (TAI)	TITL (TAI)	TITL (TAI)	TITL (TAI)
Package Family	PWP	PWP	PWP	PWP	PWP	TSSOP	PWP
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	DMOS5	DMOS5	DMOS5	DMOS5	DMOS5	DMOS5	DMOS5
Wafer Fab Process	LBC8	LBC8	LBC8	LBC8	LBC8	50HPS07	LBC8

- QBS: Qual By Similarity  
- Qual Device LM43603PWP is qualified at LEVEL2-260C

#### Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: LM43603PWP	QBS Product: LM43602PWP	QBS Product: LM46002PWP	QBS Process: LM46002PWP	QBS Process: LM43603PWP	QBS Package: BUF16821AIPWPRQ1	QBS Package: LM43603PWP
HAST	Biased HAST, 110C/85%RH	264 hours	-	-	-	2/157/0	-	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	-	3/239/0	-
AC	Autoclave 121C	96 Hours	-	-	1/77/0	-	3/230/0	3/244/0	3/230/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	1/77/0	-	3/230/0	3/244/0	3/230/0
HTSL	High Temp Storage Bake 150C	1000 Hours	-	-	-	-	1/76/0	-	1/76/0
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	-	-	-	1/50/0	-
HTOL	Life Test, 150C	300 hours	-	1/77/0	-	3/240/0	-	-	-
HBM	ESD - HBM	2000 V	-	1/3/0	-	-	-	-	-
CDM	ESD - CDM	750 V	-	1/3/0	-	-	-	-	-
LU	Latch-up	(per JESD78)	-	1/6/0	-	-	-	-	-
ED	Electrical Characterization	--	Pass	Pass	-	-	-	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	-	-	-	-	-	-

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

#### Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

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

Location	E-Mail
USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>