



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20250303003.2

**Qualification of an alternate mount compound material for select devices
Change Notification / Sample Request**

Date: March 04, 2025

To: MOUSER 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.

Texas Instruments requires acknowledgement of receipt of this notification within 60 days of the date of this notice. Lack of acknowledgement of this notice within 60 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within 60 days of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

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 or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

TI values customer engagement and feedback related to TI changes. Customers should contact TI if there are questions or concerns regarding a change notification.

Sincerely,

Change Management Team
SC Business Services

20250303003.2
Change Notification / Sample Request
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.

DEVICE	CUSTOMER PART NUMBER
DRV8802QPWPRQ1	DRV8802QPWPRQ1
LM43600AQPWPRQ1	NULL
TLC69668QPWPRQ1	NULL
LM43603AQPWPTQ1	LM43603AQPWPTQ1
DRV8245SQWPRQ1	NULL
TPS767D301QPWPRQ1	NULL
TLC69662QPWPRQ1	NULL
LP8869CQPWPRQ1	LP8869CQPWPRQ1
TLC69661QPWPRQ1	NULL
LM43600AQPWPTQ1	NULL
LP8867QPWPRQ1	LP8867QPWPRQ1
TLC5927QPWPRQ1	595-TLC5927QPWPRQ1
DRV8245PQPWPRQ1	NULL
TPS54262QPWPRQ1	TPS54262QPWPRQ1
TPS7B7701QPWPRQ1	TPS7B7701QPWPRQ1
LM53602AQPWPRQ1	NULL
TAS5441QPWPRQ1	NULL
TPA3112D1QPWPRQ1	TPA3112D1QPWPRQ1
LM46002QPWPTQ1	LM46002QPWPTQ1
LM536035QPWPRQ1	NULL
TLC69664QPWPRQ1	NULL
LM536035QPWPTQ1	LM536035QPWPTQ1
TPS54110QPWPRQ1	595-TPS54110QPWPRQ1
DRV8910QPWPRQ1	DRV8910QPWPRQ1
DRV8873SPWPRQ1	DRV8873SPWPRQ1
LM43601QPWPRQ1	LM43601QPWPRQ1
TPS7B6833QPWPRQ1	NULL
TAS5720ATDAPRQ1	NULL
LM46000AQPWPTQ1	NULL
TPS7A6350QPWPRQ1	TPS7A6350QPWPRQ1
DRV8908QPWPRQ1	DRV8908QPWPRQ1
TPS54386TPWPRQ1	TPS54386TPWPRQ1
LM46000AQPWPRQ1	NULL
TLC69618QPWPRQ1	NULL
LM46001AQPWPRQ1	NULL
LM5156HQPWPRQ1	NULL
TLC69614QPWPRQ1	NULL
DRV8912QPWPRQ1	DRV8912QPWPRQ1
LM43601AQPWPTQ1	NULL
TLC69612QPWPRQ1	NULL
LP8869QPWPRQ1	LP8869QPWPRQ1
TPS55332QPWPRQ1	NULL
TPS767D318QPWPRQ1	NULL
TLC69651QPWPRQ1	NULL
TLC69650QPWPRQ1	NULL
TLC69658QPWPRQ1	NULL
LM53603AQPWPRQ1	NULL

TPA3111D1QPWPRQ1	TPA3111D1QPWPRQ1
TAS5431QPWPRQ1	NULL
TPS54362BQPWPRQ1	TPS54362BQPWPRQ1
LM63635DQPWPRQ1	LM63635DQPWPRQ1
TLC69652QPWPRQ1	NULL
TPS40051QPWPRQ1	NULL
TLC69610QPWPRQ1	NULL
TPS7A6333QPWPRQ1	TPS7A6333QPWPRQ1
DRV8906QPWPRQ1	DRV8906QPWPRQ1
LM536033QPWPTQ1	LM536033QPWPTQ1
TLC69611QPWPRQ1	NULL
TLC69654QPWPRQ1	NULL
TPS55165QPWPTQ1	NULL
TPS7B7702QPWPRQ1	TPS7B7702QPWPRQ1
TPS76801QPWPRQ1	NULL
TPS7B6850QPWPRQ1	TPS7B6850QPWPRQ1
DRV8245HQPWPRQ1	NULL
DRV8873HPWPRQ1	DRV8873HPWPRQ1
LM46001QPWPRQ1	LM46001QPWPRQ1
TPS61194PWPRQ1	TPS61194PWPRQ1
TPS7B6333QPWPRQ1	TPS7B6333QPWPRQ1
DRV8874QPWPRQ1	NULL
DRV8889AQPWPRQ1	NULL
LM63610DQPWPRQ1	LM63610DQPWPRQ1
LM43602AQPWPRQ1	LM43602AQPWPRQ1
DRV8876QPWPRQ1	NULL
DRV10983QPWPRQ1	NULL
LP8861QPWPRQ1	LP8861QPWPRQ1
DRV8802QPWPRQ1	595-DRV8802QPWPRQ1
TLC69602QPWPRQ1	NULL
LM63615DQPWPRQ1	LM63615DQPWPRQ1
LM43603QPWPRQ1	NULL
TLC69604QPWPRQ1	NULL
TLC6C5716QDAPRQ1	TLC6C5716QDAPRQ1
TLC69601QPWPRQ1	NULL
LM43602AQPWPTQ1	LM43602AQPWPTQ1
TPS7B4253QPWPRQ1	NULL
TPS61196PWPRQ1	TPS61196PWPRQ1
TLC69600QPWPRQ1	NULL
LM536025QPWPTQ1	LM536025QPWPTQ1
TAS5720ATDAPQ1	NULL
LM5185QPWPRQ1	NULL
LP8862QPWPRQ1	LP8862QPWPRQ1
TPS65100QPWPRQ1	TPS65100QPWPRQ1
TPS7B7050QPWPRQ1	NULL
LM53602AQPWPTQ1	LM53602AQPWPTQ1
LM46002AQPWPTQ1	LM46002AQPWPTQ1
LM5176QPWPTQ1	NULL
LM5176QPWPRQ1	NULL
LM63625DQPWPRQ1	LM63625DQPWPRQ1
LM5175QPWPRQ1	NULL
LM46002QPWPRQ1	LM46002QPWPRQ1
DRV8145PQPWPRQ1	NULL
LM25185QPWPRQ1	NULL
TLC69608QPWPRQ1	NULL
TPS76750QPWPRQ1	NULL
DRV8904QPWPRQ1	DRV8904QPWPRQ1
LM43601AQPWPRQ1	NULL

TPS61193PWPRQ1	TPS61193PWPRQ1
TPA3118D2QDAPRQ1	TPA3118D2QDAPRQ1
TPS7B6701QPWPRQ1	NULL
TPS76733QPWPRQ1	NULL
DRV3946QPWPRQ1	NULL
TLC5941QPWPRQ1	TLC5941QPWPRQ1
LM53603AQPWPTQ1	LM53603AQPWPTQ1
TPS7B6350QPWPRQ1	TPS7B6350QPWPRQ1
DRV2511QDAPRQ1	DRV2511QDAPRQ1
TPS61175QPWPRQ1	TPS61175QPWPRQ1
LP8867CQPWPRQ1	LP8867CQPWPRQ1
LP8861QPWPRQ1	595-LP8861QPWPRQ1
TLC5926QPWPRQ1	TLC5926QPWPRQ1
TPA3110D2QPWPRQ1	TPA3110D2QPWPRQ1
TPS55165QPWPRQ1	NULL
DRV8889QPWPRQ1	NULL
LM43600QPWPRQ1	LM43600QPWPRQ1
LM34966QPWPRQ1	NULL
LM536023QPWPTQ1	LM536023QPWPTQ1
LM536025QPWPRQ1	NULL
TPS76833QPWPRQ1	NULL
LM43603AQPWPRQ1	LM43603AQPWPRQ1
TLC69660QPWPRQ1	NULL
TLC6C5724QDAPRQ1	TLC6C5724QDAPRQ1
TLC6C5748QDCARQ1	NULL
LM46002AQPWPRQ1	LM46002AQPWPRQ1
TPS65150QPWPRQ1	NULL
PCM1681TPWPQ1	NULL
DRV10983SQWPRQ1	NULL

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

PCN Number:	20250303003.2			PCN Date:	March 04, 2025																																				
Title:	Qualification of an alternate mount compound material for select devices																																								
Customer Contact:	Change Management team		Dept:	Quality Services																																					
Proposed 1st Ship Date:	August 31, 2025		Sample Requests accepted until:	May 03, 2025*																																					
*Sample requests received after May 03, 2025 will not be supported.																																									
Change Type:																																									
☐	Assembly Site	☐	Design	☐	Wafer Bump Material																																				
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Process																																				
☒	Assembly Materials	☐	Part number change	☐	Wafer Fab Site																																				
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Material																																				
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Process																																				
PCN Details																																									
Description of Change:																																									
This PCN is to inform of the qualification of an alternate Mount Compound for the list of devices in the product affected sections below. <table border="1" style="width: 100%;"> <thead> <tr> <th>What</th> <th>Current</th> <th>Additional</th> </tr> </thead> <tbody> <tr> <td>Mount Compound</td> <td>4208458</td> <td>4211470</td> </tr> </tbody> </table> Qualification results are shown below						What	Current	Additional	Mount Compound	4208458	4211470																														
What	Current	Additional																																							
Mount Compound	4208458	4211470																																							
Reason for Change:																																									
Standardization																																									
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																																									
None																																									
Impact on Environmental Ratings																																									
Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings. <table style="width: 100%;"> <thead> <tr> <th>RoHS</th> <th>REACH</th> <th>Green Status</th> <th>IEC 62474</th> </tr> </thead> <tbody> <tr> <td>☒ No Change</td> <td>☒ No Change</td> <td>☒ No Change</td> <td>☒ No Change</td> </tr> </tbody> </table>						RoHS	REACH	Green Status	IEC 62474	☒ No Change	☒ No Change	☒ No Change	☒ No Change																												
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☒ No Change	☒ No Change	☒ No Change	☒ No Change																																						
Changes to product identification resulting from this PCN:																																									
None																																									
Product Affected:																																									
<table border="1" style="width: 100%;"> <tbody> <tr> <td>BUF16821AIPWPRQ1</td> <td>LM43603AQPWPRQ1</td> <td>PCM1681TPWPQ1</td> <td>TPS54325TPWPRQ1</td> </tr> <tr> <td>DRV10982QPWPRQ1</td> <td>LM43603AQPWPTQ1</td> <td>PCM1681TPWPRQ1</td> <td>TPS54362AQPWPRQ1</td> </tr> <tr> <td>DRV10982SQWPRQ1</td> <td>LM43603QPWPRQ1</td> <td>SN10983TQPWPRQ1</td> <td>TPS54362BQPWPRQ1</td> </tr> <tr> <td>DRV10983QPWPRQ1</td> <td>LM43603QPWPTQ1</td> <td>SN1706036QPWPRQ1</td> <td>TPS54386TPWPRQ1</td> </tr> <tr> <td>DRV10983SQWPRQ1</td> <td>LM46000AQPWPRQ1</td> <td>SN2205018DCARQ1</td> <td>TPS55165QPWPRQ1</td> </tr> <tr> <td>DRV2511QDAPRQ1</td> <td>LM46000AQPWPTQ1</td> <td>SN63635DQPWPRQ1</td> <td>TPS55165QPWPTQ1</td> </tr> <tr> <td>DRV3946QPWPRQ1</td> <td>LM46000QPWPRQ1</td> <td>TAS5431QPWPRQ1</td> <td>TPS55332QPWPRQ1</td> </tr> <tr> <td>DRV8145PQPWPRQ1</td> <td>LM46000QPWPTQ1</td> <td>TAS5441QPWPRQ1</td> <td>TPS61175QPWPRQ1</td> </tr> <tr> <td>DRV8245HQPWPRQ1</td> <td>LM46001AQPWPRQ1</td> <td>TAS5720ATDAPQ1</td> <td>TPS61193PWPRQ1</td> </tr> </tbody> </table>						BUF16821AIPWPRQ1	LM43603AQPWPRQ1	PCM1681TPWPQ1	TPS54325TPWPRQ1	DRV10982QPWPRQ1	LM43603AQPWPTQ1	PCM1681TPWPRQ1	TPS54362AQPWPRQ1	DRV10982SQWPRQ1	LM43603QPWPRQ1	SN10983TQPWPRQ1	TPS54362BQPWPRQ1	DRV10983QPWPRQ1	LM43603QPWPTQ1	SN1706036QPWPRQ1	TPS54386TPWPRQ1	DRV10983SQWPRQ1	LM46000AQPWPRQ1	SN2205018DCARQ1	TPS55165QPWPRQ1	DRV2511QDAPRQ1	LM46000AQPWPTQ1	SN63635DQPWPRQ1	TPS55165QPWPTQ1	DRV3946QPWPRQ1	LM46000QPWPRQ1	TAS5431QPWPRQ1	TPS55332QPWPRQ1	DRV8145PQPWPRQ1	LM46000QPWPTQ1	TAS5441QPWPRQ1	TPS61175QPWPRQ1	DRV8245HQPWPRQ1	LM46001AQPWPRQ1	TAS5720ATDAPQ1	TPS61193PWPRQ1
BUF16821AIPWPRQ1	LM43603AQPWPRQ1	PCM1681TPWPQ1	TPS54325TPWPRQ1																																						
DRV10982QPWPRQ1	LM43603AQPWPTQ1	PCM1681TPWPRQ1	TPS54362AQPWPRQ1																																						
DRV10982SQWPRQ1	LM43603QPWPRQ1	SN10983TQPWPRQ1	TPS54362BQPWPRQ1																																						
DRV10983QPWPRQ1	LM43603QPWPTQ1	SN1706036QPWPRQ1	TPS54386TPWPRQ1																																						
DRV10983SQWPRQ1	LM46000AQPWPRQ1	SN2205018DCARQ1	TPS55165QPWPRQ1																																						
DRV2511QDAPRQ1	LM46000AQPWPTQ1	SN63635DQPWPRQ1	TPS55165QPWPTQ1																																						
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DRV8245QPWPRQ1	LM46001AQPWPTQ1	TAS5720ATDAPRQ1	TPS61194PWPRQ1
DRV8245SQWPRQ1	LM46001QPWPRQ1	TAS5760MTDAPQ1	TPS61196PWPRQ1
DRV8802QPWPRQ1	LM46001QPWPTQ1	TAS5760MTDAPRQ1	TPS65100QPWPRQ1
DRV8824QPWPRQ1	LM46002AQPWPRQ1	TLC5926QPWPRQ1	TPS65150QPWPRQ1
DRV8873DPWPRQ1	LM46002AQPWPTQ1	TLC5927QPWPRQ1	TPS71133PWPRQ1
DRV8873HPWPRQ1	LM46002QPWPRQ1	TLC5941QPWPRQ1	TPS76733QPWPRQ1
DRV8873SPWPRQ1	LM46002QPWPTQ1	TLC69600QPWPRQ1	TPS76750QPWPRQ1
DRV8874QPWPRQ1	LM5156HQPWPRQ1	TLC69601QPWPRQ1	TPS767D301QPWPRQ1
DRV8876QPWPRQ1	LM5175QPWPRQ1	TLC69602QPWPRQ1	TPS767D318QPWPRQ1
DRV8889AQPWPRQ1	LM5175QPWPTQ1	TLC69604QPWPRQ1	TPS76801QPWPRG4Q1
DRV8889QPWPRQ1	LM5176QPWPRQ1	TLC69608QPWPRQ1	TPS76801QPWPRQ1
DRV8904QPWPRQ1	LM5176QPWPTQ1	TLC69610QPWPRQ1	TPS76818QPWPRQ1
DRV8906QPWPRQ1	LM5185QPWPRQ1	TLC69611QPWPRQ1	TPS76825QPWPRQ1
DRV8908DQPWPRQ1	LM536023QPWPRQ1	TLC69612QPWPRQ1	TPS76833QPWPRQ1
DRV8908QPWPRQ1	LM536023QPWPTQ1	TLC69614QPWPRQ1	TPS76850QPWPRQ1
DRV8910QPWPRQ1	LM536025QPWPRQ1	TLC69618QPWPRQ1	TPS77501QPWPRQ1
DRV8912QPWPRQ1	LM536025QPWPTQ1	TLC69650QPWPRQ1	TPS77533QPWPRCT
LM25185QPWPRQ1	LM53602AQPWPRPA	TLC69651QPWPRQ1	TPS77533QPWPRQ1
LM26001AQPWPR	LM53602AQPWPRQ1	TLC69652QPWPRQ1	TPS77601QPWPRG4Q1
LM26001AQPWPT	LM53602AQPWPTPA	TLC69654QPWPRQ1	TPS77601QPWPRQ1
LM26003AQPWPR	LM53602AQPWPTQ1	TLC69658QPWPRQ1	TPS77618QPWPRQ1
LM26003AQPWPT	LM536033QPWPRQ1	TLC69660QPWPRQ1	TPS77633QPWPRQ1
LM34936QPWPRQ1	LM536033QPWPTQ1	TLC69661QPWPRQ1	TPS7A6301QPWPRQ1
LM34936QPWPTQ1	LM536035QPWPRQ1	TLC69662QPWPRQ1	TPS7A6333QPWPRQ1
LM34966QPWPRQ1	LM536035QPWPTQ1	TLC69664QPWPRQ1	TPS7A6350QPWPRQ1
LM43600AQPWPRQ1	LM53603AQPWPRQ1	TLC69668QPWPRQ1	TPS7A6401QPWPRQ1
LM43600AQPWPTQ1	LM53603AQPWPTQ1	TLC6C5716QDAPRQ1	TPS7B4253QPWPRQ1
LM43600QPWPRQ1	LM53603BQPWPRDN	TLC6C5724QDAPRQ1	TPS7B6333QPWPRQ1
LM43600QPWPTQ1	LM63610DQPWPRQ1	TLC6C5748QDCARQ1	TPS7B6350QPWPRQ1
LM43601AQPWPRQ1	LM63615DQPWPRQ1	TPA3110D2QPWPRQ1	TPS7B6701QPWPRQ1
LM43601AQPWPTQ1	LM63625DQPWPRQ1	TPA3111D1QPWPRQ1	TPS7B6733QPWPRQ1
LM43601QPWPRQ1	LM63635DQPWPRQ1	TPA3112D1QPWPRQ1	TPS7B6750QPWPRQ1
LM43601QPWPTQ1	LP8861QPWPRQ1	TPA3118D2QDAPRQ1	TPS7B6833QPWPRQ1
LM43602AQPWPRQ1	LP8862QPWPRQ1	TPS40050QPWPRQ1	TPS7B6850QPWPRQ1
LM43602AQPWPTQ1	LP8863BDCPRQ1	TPS40051QPWPRQ1	TPS7B7033QPWPRQ1
LM43602QPWPRQ1	LP8867CQPWPRQ1	TPS54110QPWPRQ1	TPS7B7050QPWPRQ1
LM43602QPWPTQ1	LP8867QPWPRQ1	TPS54162QPWPRQ1	TPS7B7701QPWPRQ1
LM43602SPWPRQ1	LP8869CQPWPRQ1	TPS54225TPWPRQ1	TPS7B7702QPWPRNP
LM43602SPWPTQ1	LP8869QPWPRQ1	TPS54262QPWPRQ1	TPS7B7702QPWPRQ1

Automotive Qualification Summary
(As per AEC-Q100 Rev. J and JEDEC Guidelines)

Approve Date 06-January-2025

Product Attributes

Attributes	Qual Device: TPS65140PWPRQ1	Qual Device: TPSS4612QPWPRQ1	Qual Device: TPSS4316QPWPRQ1	Qual Device: DRV3946QPWPRQ1	QBS Package Reference: TIC12400QDCPRQ1	QBS Package Reference: TIC12400QDCPRQ1	QBS Package Reference: LP8880DCPRQ1
Automotive Grade Level	Grade 1	Grade 1	Grade 1	Grade 1	Grade 1	Grade 1	Grade 1
Operating Temp Range (C)	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125
Product Function	Signal Chain	Signal Chain	Signal Chain	Signal Chain	Interface	Interface	Power Management
Wafer Fab Supplier	DL-LIN	DL-LIN	DL-LIN	RFAB	RFAB	RFAB	RFAB
Assembly Site	TAI	TAI	TAI	MLA	TAI	TAI	TAI
Package Group	TSSOP	TSSOP	TSSOP	TSSOP	TSSOP	TSSOP	TSSOP
Package Designator	PWP	PWP	PWP	PWP	DCP	DCP	DCP
Pin Count	24	28	20	28	38	38	38

- QBS: Qual By Similarity, also known as Generic Data
- Qual Device TPS65140PWPRQ1 is qualified at MSL1 260C
- Qual Device TPSS4612QPWPRQ1 is qualified at MSL2 260C
- Qual Device TPSS4316QPWPRQ1 is qualified at MSL2 260C
- Qual Device DRV3946QPWPRQ1 is qualified at MSL3 260C

Qualification Results

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

Type	#	Test Spec	Min Lot Qty	SS / Lot	Test Name	Condition	Duration	Qual Device: TPS65140PWPRQ1	Qual Device: TPSS4612QPWPRQ1	Qual Device: TPSS4316QPWPRQ1	Qual Device: DRV3946QPWPRQ1	QBS Package Reference: TIC12400QDCPRQ1	QBS Package Reference: TIC12400QDCPRQ1	QBS Package Reference: LP8880DCPRQ1
Test Group A - Accelerated Environment Stress Tests														
PC	A1	JEDEC J-STD-020 JESD22-A113	3	77	Preconditioning	MSL1 260C	-	3/864/0	-	-	-	-	-	-
PC	A1	JEDEC J-STD-020 JESD22-A113	3	77	Preconditioning	MSL2 260C	-	-	3/498/0	3/498/0	-	-	-	-

Type	#	Test Spec	Min Lot Qty	SS / Lot	Test Name	Condition	Duration	Qual Device: TPS65140PWPRQ1	Qual Device: TPSS4612QPWPRQ1	Qual Device: TPSS4316QPWPRQ1	Qual Device: DRV3946QPWPRQ1	QBS Package Reference: TIC12400QDCPRQ1	QBS Package Reference: TIC12400QDCPRQ1	QBS Package Reference: LP8880DCPRQ1
PC	A1	JEDEC J-STD-020 JESD22-A113	3	77	Preconditioning	MSL3 260C	-	-	-	-	3/498/0	1/0/0	2/0/0	3/0/0
HAST	A2	JEDEC JESD22-A110	3	77	Biased HAST	130C/85%RH	96 Hours	3/231/0	-	-	-	1/77/0	2/154/0	3/231/0
AC/UHAST	A3	JEDEC JESD22-A102/JEDEC JESD22-A118	3	77	Autoclave	121C/15psig	96 Hours	-	-	-	-	1/77/0	2/154/0	3/231/0
AC/UHAST	A3	JEDEC JESD22-A102/JEDEC JESD22-A118	3	77	Autoclave	130C/85%RH	96 Hours	-	-	-	-	1/77/0	2/154/0	3/231/0
AC/UHAST	A3	JEDEC JESD22-A102/JEDEC JESD22-A118	3	77	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0	-	-	-
TC	A4	JEDEC JESD22-A104 and Appendix 3	3	77	Temperature Cycle	-65C/150C	500 Cycles	-	3/231/0	3/231/0	3/231/0	1/77/0	2/154/0	3/231/0
TC-BP	A4	MIL-STD883 Method 2011	1	5	Post Temp Cycle Bond Pull	-	-	-	-	-	-	1/5/0	-	-
TC-SAM	A4	-	3	3	Post TC SAM	<50% delamination	-	-	3/36/0	3/36/0	3/36/0	-	-	-
PTC	A5	JEDEC JESD22-A105	1	45	PTC	-40/125C	1000 Cycles	-	-	-	-	-	1/45/0	1/45/0
HTSL	A6	JEDEC JESD22-A103	1	45	High Temperature Storage Life	175C	500 Hours	3/135/0	-	-	-	1/45/0	2/90/0	3/135/0
Test Group B - Accelerated Lifetime Simulation Tests														
HTOL	B1	JEDEC JESD22-A108	3	77	Life Test	125C	1000 Hours	-	-	-	-	1/77/0	1/77/0	1/77/0
ELFR	B2	AEC Q100-008	3	800	Early Life Failure Rate	125C	48 Hours	-	-	-	-	-	2/1600/0	-
EDR	B3	AEC Q100-005	1	77	NVM Endurance, Data Retention, and Op Life	Per QSS-009-018	1 Step	-	-	-	-	1/77/0	1/77/0	-
Test Group C - Package Assembly Integrity Tests														
WBS	C1	AEC Q100-001	1	30	Wire Bond Shear	Minimum of 5 devices, 30 wires Cpk>1.67	Wires	3/90/0	3/90/0	3/90/0	3/90/0	1/30/0	1/30/0	3/90/0
WBP	C2	MIL-STD883 Method 2011	1	30	Wire Bond Pull	Minimum of 5 devices, 30 wires Cpk>1.67	Wires	3/90/0	3/90/0	3/90/0	3/90/0	1/30/0	1/30/0	3/90/0

Type	#	Test Spec	Min Lot Qty	SS / Lot	Test Name	Condition	Duration	Qual Device: TPS65140/PWPRQ1	Qual Device: TPSS4612QPWRQ1	Qual Device: TPSS4316QPWRQ1	Qual Device: DRV29460QPWRQ1	QBS Package Reference: TIC12490QDCPRQ1	QBS Package Reference: TIC12490QDCPRQ1	QBS Package Reference: LP8880QDCPRQ1
SD	C3	JEDEC J-STD-002	1	15	PB Solderability	>95% Lead Coverage	-	-	-	-	-	-	1/15/0	-
SD	C3	JEDEC J-STD-002	1	15	PB-Free Solderability	>95% Lead Coverage	-	1/15/0	-	-	-	-	1/15/0	1/15/0
PD	C4	JEDEC JESD22-B100 and B108	3	10	Physical Dimensions	Cpk>1.67	-	3/30/0	3/30/0	3/30/0	3/30/0	1/10/0	1/10/0	3/30/0
Test Group D - Die Fabrication Reliability Tests														
EM	D1	JESD61	-	-	Electromigration	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
TDD8	D2	JESD35	-	-	Time Dependent Dielectric Breakdown	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
HCI	D3	JESD60 & 28	-	-	Hot Carrier Injection	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
BTI	D4	-	-	-	Bias Temperature Instability	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
SM	D5	-	-	-	Stress Migration	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
Test Group E - Electrical Verification Tests														
ESD	E2	AEC Q100-002	1	3	ESD HBM	-	2000 Volts	-	-	-	-	-	-	1/3/0
ESD	E2	AEC Q100-002	1	3	ESD HBM	-	3000 Volts	-	-	-	-	1/3/0	-	-
ESD	E3	AEC Q100-011	1	3	ESD CDM	-	1000 Volts	-	-	-	-	1/3/0	-	-
ESD	E3	AEC Q100-011	1	3	ESD CDM	-	500 Volts	-	-	-	-	-	-	1/3/0
LU	E4	AEC Q100-004	1	3	Latch-Up	Per AEC Q100-004	-	-	-	-	-	1/6/0	-	1/6/0
ED	E5	AEC Q100-009	3	30	Electrical Distributions	Cpk>1.67 Room, hot and cold	-	3/90/0	3/90/0	3/90/0	3/90/0	3/90/0	-	3/90/0
Additional Tests														

- 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/600 Cycles

Ambient Operating Temperature by Automotive Grade Level:

- Grade 0 (or E): -40C to +150C
- Grade 1 (or Q): -40C to +125C
- Grade 2 (or T): -40C to +105C
- Grade 3 (or I): -40C to +85C

E1 (TEST): Electrical test temperatures of Qual samples (High temperature according to Grade level):

- Room/Hot/Cold: HTOL, ED
- Room/Hot: THB / HAST, TC / PTC, HTSL, ELPR, ESD & LU
- Room: ACI/HAST

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

TI Qualification ID: R-CHG-2403-108

ZVEI IDs: SEM-PA-07

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