

PCN Number:	20170308001		PCN Date:	Mar 9 2017	
Title:	Qualification of an updated BOM for the THS788PFD				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	June 9 2017	Estimated Sample Availability:	Date provided at sample request		
Change Type:					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials
				<input type="checkbox"/>	Wafer Fab Process
PCN Details					
Description of Change:					
This notification is to announce the qualification of a new die attach and leadframe finish for THS788PFD as follows:					
	What	Current	New		
	Mount Compound	4206201	4206895		
	Leadframe finish	NiPdAu	NiPdAu (Roughened)		
Reason for Change:					
Improved material set					
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):					
None					
Anticipated impact on Material Declaration					
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI ECO website .		
Changes to product identification resulting from this PCN:					
None					
Product Affected:					
	THS788PFD	THS788PFDT			



Qualification Report

THS788PFD with Roughened Leadframe & 4206895 mount-compound Approve Date 21-Nov-2016

Product Attributes

Attributes	Qual Device: THS788PFD	QBS Process Reference: TRF1016GQS	QBS Package Reference: DS58C20IPFP_SSTN	QBS Package Reference: S106049BC1PZP
Assembly Site	TAI	HIJ1	PHI	TAI
Package Family	HTQFP	JRBGA	HTQFP	TQFP
Flammability Rating	-	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	FFAB	FFAB	DMOS5	DMOS5
Wafer Process	RFSIGE	RFSIGE1	1833C05	LBC8- DT

- QBS: Qual by Similarity
- Qual Device THS788PFD is qualified at Not Classified

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: THS788PFD	QBS Process Reference: TRF1016GQS	QBS Package Reference: ADS58C20IPFP_SSTN	QBS Package Reference: S106049BC1PZP
AC	Autoclave 121C	96 Hours	-	3/231/0	3/231/0	3/231/0
ED	Electrical Distributions	Cpk>1.67 Room, hot, and cold test	-	-	-	1/90/0
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	-	2/1600/0
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	-	-
HAST	Biased Hast, 130C/85%RH	96 Hours	-	3/230/0	-	2/154/0
HBM	ESD - HBM	1500 V	-	-	-	1/3/0
CDM	ESD - CDM	250 V	1/3/0	-	-	-
HTOL	Life Test ,140C	480 Hours	-	3/231/0	-	-
HTOL	Life Test, 125C	1000	-	-	-	3/229/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	-
HTSL	High Temp. Storage Bake, 175C	175C, 500 hours	-	-	-	1/50/0
LU	Latch-up	(per JESD78)	-	1/6/0	-	1/6/0
TC	Temperature Cycle, -55/125C	500 Cycles	-	3/220/0	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	-	3/231/0	3/231/0
TS	Thermal Shock, -65/150C	500 Cycles	-	3/229/0	-	-

- 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	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
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