PCN Number:		20200803000.1					ate:	Aug 03, 2020	
Title: PBO to PI conversion for the OPA2211AIDDA/R device									
Customer Contact: PCN Manager Dept: Quality Services									
Proposed 1 st Ship Date		n Date:	e: Nov 03, 2020			Estimated Sample Date provided		•	
			Avai		lability: sample request				
Change Type:									
	Assembly Site				Design L Data Sheet		Wafer Bump Site Wafer Bump Material		
✓ Assembly Process✓ Assembly Materials				Part number change			Wafer Bump Process		
Mechanical Specification			า	Test Sit		Wafer Fab Site			
Packing/Shipping/Labe				ocess	Wafer Fab Materials				
3. 11 3. 3						Wafer Fab Process			
PCN Details									
Descri	iption of Cl	hange:							
This notification is to announce the qualification of Polyimide as a replacement for the current PBO die coat for the OPA2211AIDDA/R device.									
			Cur	rrent	ent Pro		oposed		
Passivation		ion	P	ВО	PI				
Leadframe		me N	iPdAu (N	Non-rough)	NiPdAu (Single Side Top Roughened)				
Reason for Change:									
Continuity of Supply									
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):									
None									
Anticipated impact on Material Declaration									
Material Declaration pro		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 at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp							
Changes to product identification resulting from this PCN:									
None									
Product Affected:									
OPA2211AIDDA OPA2211AIDDAR									

Qualification Data

Approved on 07/29/2020

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: OPA2211AIDDA	QBS Process Reference: INA826AIDGK	QBS Process Reference: OPA1612AID	QBS Process Reference: OPA209AID	QBS Process Reference: OPA827AIDGK
HTOL	Life Test, 150C	300 Hours	-	1/77/0	3/231/0	1/77/0	1/74/0
HBM	ESD - HBM	2500 V	-	1/3/0	1/3/0	1/3/0	1/3/0
CDM	ESD - CDM	1000 V	-	1/3/0	1/3/0	1/3/0	1/3/0
LU	Latch-up	Per JESD78	-	1/12/0	2/12/0	1/12/0	1/6/0
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	3/90/0	1/30/0	1/30/0
-	Pb Free Solderability	Pb Free/Solderability	3/66/0	-	-	-	-
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	3/90/0	1/30/0	1/30/0
HTSL	High Temp Storage Bake 170C	420 Hours	-	1/45/0	3/135/0	1/45/0	1/45/0
тс	Temperature Cycle, -65/150C	500 Cycles	3/231/0	1/77/0	3/231/0	1/77/0	1/77/0
UHAST	Unbiased HAST 130C/85%RH	96 Hours	3/231/0	-	-	-	-

- QBS: Qual By Similarity
- Qual Device OPA2211AIDDA is qualified at LEVEL1-260C
- 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 Tl's external Web site: http://www.ti.com/

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

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