PCN Number: 20190820005.1						ate:	Aug 29 2019	
Title: PBO to PI conversion for the OPA2211AIDRGR/T								
Customer Contact: PCN Manager Dept: Quality Services								
Proposed 1 st Ship Date:		Nov 29 2019		_			provided at ole request	
Change Type:								
Assembly Site			Design		Wafe	Wafer Bump Site		
Assembly Process			Data S	heet	Wafer Bump Material			
Assembly Materials				Part number change		Wafer Bump Process		
Mechanical Specification			Test Site		Wafer Fab Site			
Packing/Shipping/Labeling			Test Process			Wafer Fab Materials		
						Wafer Fab Process		
PCN Details								
Description of Chang	e:							
die coat for the OPA221	connounce the qualification of Polyimide as a replacement for the current PBC 2211AIDRGR/T. Current Proposed				ie current PBO			
		PBO		PI				
Reason for Change:								
Continuity of Supply								
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):								
None								
Anticipated impact on Material Declaration								
No Impact to the Material Declaration	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 <u>TI ECO website</u> .							
Changes to product identification resulting from this PCN:								
None								
Product Affected:								
OPA2211AIDRGR OPA2211AIDRGT								

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

Туре	Test Name / Condition	Duration	Qual Device: OPA2211AIDRG	QBS Product Reference: <u>OPA2211IDDA</u>	QBS Process Reference: <u>OPA2140AIDGK</u>	QBS Process Reference: OPA2209AIDGK	QBS Package Reference: <u>SN0903049DRG</u>
AC	Autoclave 121C	96 Hours	-	1/77/0	1/77/0	1/77/0	-
CDM	ESD - CDM	1000 V	1/3/0	1/3/0	1/3/0	1/3/0	-
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	Pass	Pass	
HAST	Biased HAST 130C/85%RH	96 Hours	-	-	-	1/77/0	3/231/0
HBM	ESD - HBM	2500 V	-	-	-	1/3/0	-
HBM	ESD - HBM	3000 V	-	1/3/0	1/3/0	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	1/77/0	1/77/0	-
HTOL	Life Test, 150C	300 Hours	-	-	-	-	1/77/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	1/77/0	1/69/0	1/77/0	1/77/0
LU	Latch-up	(per JESD78)	-	1/6/0	1/6/0	1/6/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	1/77/0	1/77/0	1/77/0	3/231/0
UHAST	Unbiased HAST 130C/85%RH	96 Hours	3/231/0	-	-	-	2/154/0

- 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

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