PCN Number:	2017	20170201000						PCN Date:		Feb 3 2017
Title: Qualification of a new Die Attach Film (DAF) for Select Devices										
Customer Contact: PCN Manager Dept: Quality Services										
Proposed 1 st Ship Date: May 3		3 2017		Estimated S				provided at		
,			Ava		<u>aila</u>	ilability: sample request				
Change Type: Assembly Site					Design	ign Wafer Bump Site			n Site	
Assembly Process				Data Sheet			Wafer Bump Material			
Assembly Materials				Part number change						
Mechanical Specification				Test Site			Wafer Fab Site			
Packing/Shipping/Labeling			Test Process			Wafer Fab Materials				
								Wafer Fab Process		Process
PCN Details										
Description of Change:										
This notification is to announce the qualification of a new die attach film (DAF) for the devices in the product affected section below as follows: Current Proposed										
	SID#F		SID#P	Z00	78	SID#PZ0084	084			
Reason for Ch	nange:									
DAF Supplier change no longer producing current material										
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):										
None										
Anticipated in	npact oi	n Mat	erial [Dec	laration					
No Impact to the 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.						roduction				
Changes to pr	roduct i	dentif	ficatio	n re	esulting	from this PCN:				
None										
Product Affected:										
OPA1S2384IDRCR OPA1S2384IDRCT OPA1S2385IDRCR OPA1S2385IDRCT						DRCT				



Qualification Report

Change manufacturing of DAF type and supplier from PZ0078 to PZ0084 Approve Date 14-Dec-2016

Product Attributes

Attributes	Qual Device: OPA1S2384IDRC
Assembly Site	UTAC
Package Family	VSON
Flammability Rating	UL 94 V-0
Wafer Fab Supplier	TSMC / FFAB
Wafer Fab Process	0.6UM DPDM / ASLC10

⁻ QBS: Qual By Similarity

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

Туре	Test Name / Condition	Duration	Qual Device: OPA1 S2384IDRC		
AC	Autoclave 121C	96 Hours	3/231/0		
DS	Die Shear	-	3/30/0		
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0		
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0		
XRAY	X-ray	(top side only)	3/15/0		

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

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
Japan	PCNJapanContact@list.ti.com

⁻ Qual Device OPA1S2384IDRC is qualified at LEVEL2-260C

⁻ Device OPA1S2384IDRC contains multiple dies.

⁻ 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 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/