PCN Num	ber:		2016	5020	02002				Ρ	CN D	ate:	02/05/	2016
Title: Qualification of R				B fo	or Select LBC	8 Devices						_ , ,	
Customer Contact:				PCN Manager Dept				t:	Quality Services				
Proposed 1 st Ship Dates				5/2016	Estimated Sample Availability:			Da	Date provided at sample request.				
Change T	Change Type:						uest.						
Assem		ite		Π	Assembly F	rocess				Asse	mbly	Material	S
Desigi				$\overline{\Box}$	Electrical Specification						I Specifi		
Test S				Π	Packing/Shipping/Labeling					Proce			
Wafer		o Site		$\overline{\square}$	Wafer Bump Material				Wafer Bump Process				
🛛 Wafer					Wafer Fab					Wafer Fab Process			
					Part numbe	Part number change							
					PCN	Details							
Descriptio	on of	Change:											
		FAB sour	rce for			qualification o vices listed in	"Produ	uct	Affe	ected			an
		Current					Additi						
Current Site	Fab	Pro	cess		Wafer Diameter	Additional Fab Site	Pr	Process			Wafer Diameter		
DP1DM	5	LB	C8		200 mm	RFAB		LBC8				mm	
				0	al Data Sect								
Reason fo		•	in the	Qu									
Continuity													
Anticipate	ed im	pact on	Form,	Fit	, Function,	Quality or R	eliabil	lity	(p	ositiv	/e / n	egative):
None								-					-
Changes t	Changes to product identification resulting from this PCN:												
Current													
Chi	p Site	s	Chip Site Origin Code (20L)			Chip Site Country Code (21L)			(Chip S	ite City		
DP	DP1DM5		DM5		USA			T		Richa	rdson		
New													
Ch	Chip SiteChip Site Origin Code (20L)Chip Site Country Code (21L)Chip Site City												
RFAB			RFB USA			Richardson							
Made IN: Mal 20C: MSL 2 /260C/ MSL 2 /260C/ MSL 1 /235C/ 0PT:	Sample product shipping label (not actual product label) TEXAS INSTRUMENTS ADE IN: Malaysia 20: MSL 2 /2600C/1 YEAR SEAL DT MSL 1 /235C/UNLIM 03/29/04 OFT: TTEM: BLL: 5A (L)T0:1750 (not actual product label) (1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY (1T) 7523483S12 (P) REV: COL) CSO: SHE (2SD: ACO: USA												

Product Affected:							
DRV83053PHP	DRV83055PHPR	SN1505019PHPR					
DRV83053PHPR	DRV8305NPHP	SNC2025PHPR					
DRV83055PHP	DRV8305NPHPR						

QUALIFICATION DATA

Hayate (SNC2025PHPR) RFAB Offload Approve Date 29-Jan-2016

Attributes	Qual Device: SNC2025PHPR	QBS Product Reference: SNC2024PHP	QBS Process Reference: SN96019PFP	
Assembly Site	TIPI	PHI (TIPI)	PHI (TIPI)	
Package Family TQFP		TQFP	HTQFP	
FlammabilityRating		UL 94 V-0	UL 94 V-0	
Wafer Fab RFAB		DM5	RFAB	
Wafer Process	LBC8	LBC8	LBC8	

Qualification Results

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

Data Displayed as. Number of lots / Total sample size / Total failed							
Туре	Test Name / Condition	Duration	Qual Device: SNC2025PHPR	QBS Product Reference: SNC2024PHP	QBS Process Reference: SN96019PFP		
AC	Autoclave 121C	96 Hours	-	-	3/231/0		
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	1/30/0		
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0		
HBM	ESD - HBM	4000 V	-	1/3/0	-		
CDM	ESD - CDM	1500 V	-	-	3/9/0		
HTOL	Life Test, 125C	1000 Hours	-	1/77/0	3/231/0		
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0		
LI	Lead Fatigue	Leads	-	-	-		
LI	Lead Pull to Destruction	Leads	-	-	-		
LU	Latch-up	(per JESD78)	-	2/12/0	1/6/0		
PD	Physical Dimensions		-	-	-		
SD	Surface Mount Solderability	Pb Free	-	-	-		
тс	Temperature Cycle, - 65/150C	500 Cycles	-	1/77/0	3/231/0		
TS	Thermal Shock, - 65/150C	500 Cycles	-	-	-		
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-		
WBP	Bond Pull	Wires	-	-	-		
WBS	Ball Bond Shear	Wires	-	-	-		

- 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 0.7 eV : 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

Qualification Report DRV8305 RFAB Offload Approve Date 25-Jan-2016

Attributes	Qual Device: DRV83053PHPR	Qual Device: DRV83055PHPR	Qual Device: DRV8305NPHPR	QBS Product Reference: DRV8305PHP	QBS Process Reference: SN96019PFP
Assembly Site	TITL	TITL	TITL	TAI / TITL	PHI (TIPI)
Package Family	HTQFP	HTQFP	HTQFP	HTQFP	HTQFP
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB	RFAB	RFAB	DM5	RFAB
Wafer Process	LBC8	LBC8	LBC8	LBC8	LBC8

QBS: Qual By Similarity

- Qual Devices qualified at LEVEL3-260CG: DRV83053PHPR, DRV8305NPHPR, DRV83055PHPR

Туре	Test Name / Condition	Duration	Qual Device: DRV83053PHPR	Qual Device: DRV83055PHPR	Qual Device: DRV8305NPHPR	QBS Product Reference: DRV8305PHP	QBS Process Reference: SN96019PFP
AC	Autoclave 121C	96 Hours	-	-	-	-	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass	-	-	Pass	Pass
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	3/231/0
HBM	ESD - HBM	4000 V	-	-	-	1/3/0	-
CDM	ESD - CDM	1500 V	-	-	-	-	3/9/0
HTOL	Life Test, 125C	1000 Hours	-	-	-	-	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	-	-	3/231/0
LU	Latch-up	(per JESD78)	-	-	-	2/12/0	1/6/0
тс	Temperature Cycle, -65/150C	500 Cycles	-	-	-	1/77/0	3/231/0
WBP	Bond Pull	Wires	-	-	-	-	-
WBS	Ball Bond Shear	Wires	-	-	-	-	-
YLD	FTY and Bin Summary		-	1/Pass	1/Pass	-	-

- 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 you can contact your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
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