




PCN Number:	20201106000.1		PCN Date:	Nov 6, 2020	
Title:	Qualification of Carsem Suzhou as an additional Assembly site for Select Devices				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	Feb 6, 2021	Estimated Sample Availability:	Date provided at sample request		
Change Type:					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input checked="" 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"/>		<input type="checkbox"/>	Wafer Fab Process
PCN Details					
Description of Change:					
Texas Instruments is pleased to announce the qualification Carsem Suzhou as an additional assembly site for the list of devices below. Current assembly site and Material differences are as follows:					
		UTAC		CARZ	
	Lead finish	NiPdAu (Non-rough)		NiPdAuAg (Single Side Top Roughened)	
	Wire type	Au		Cu	
	Mount Compound	PZ0035		443156	
Reason for Change:					
Continuity of Supply					
1) To align with world technology trends and use wiring with enhanced mechanical and electrical properties					
2) Maximize flexibility within our Assembly/Test production sites.					
3) Cu is easier to obtain and stock					
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 at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp		
Changes to product identification resulting from this PCN:					
	Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City	
	UTAC	NSE	THA	Bangkok	
	Carsem	CSZ	CHN	Jiangsu	
Sample product shipping label (not actual product label)					

 TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 2Q:	 G4		(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY(1T) 7523483SI2 (P) (2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS
MSL '2 /260C/1 YEAR SEAL DT MSL 1 /235C/UNLIM 03/29/04			
OPT: ITEM: 39 LBL: 5A (L)TO:1750			
Product Affected:			
AMC7834IRTQR		AMC7834IRTQT	

Qualification Data
Approve Date 15-Oct-2020

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

Type	Test Name / Condition	Duration	Qual Device: AMC7834IRTQR	QBS Product Reference: AMC7834BIRTQ	QBS Product/Package Reference: AMC7834IRTQR	QBS Process Reference: ADS1232IPW	QBS Process Reference: ADS1259BIPW	QBS Process Reference: AMC7812SPAP
HTOL	Life Test, 150C	300 Hours	-	-	3/231/0	1/77/0	1/77/0	3/231/0
HBM	ESD - HBM	1000 V	-	-	-	-	-	3/9/0
HBM	ESD - HBM	2000 V	-	-	-	1/3/0	1/3/0	-
HBM	ESD - HBM	750 V	-	-	1/3/0	-	-	-
CDM	ESD - CDM	250 V	-	1/3/0	1/3/0	-	-	-
CDM	ESD - CDM	500 V	-	-	-	1/3/0	1/3/0	3/9/0
LU	Latch-up	Per JESD78	-	1/6/0	1/6/0	1/6/0	1/6/0	3/18/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	Pass	Pass	Pass	Pass
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	-	-	-
HTSL	High Temp Storage Bake 150C	1000 Hours	3/231/0	-	-	-	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	3/135/0	1/77/0	1/77/0	3/231/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-	3/231/0	1/77/0	-	3/231/0
UHAST	Unbiased HAST 130C/85%RH	96 Hours	3/231/0	-	3/231/0	-	-	-

- QBS: Qual By Similarity
 - Qual Device AMC7834IRTQR is qualified at LEVEL3-260C
 - 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 TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:
Qualified Pb-Free(SMT) and Green

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