



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**PCN# 2011122001  
Qualification of Renesas as an Additional Assembly and Test Site option for select  
devices in the DCU package  
Information Only**

Dear Customer:

Texas Instruments is pleased to announce the completion of qualification testing for the product change described in PCN# 2011122001. The details of the qualification results are included in the following pages and are being forwarded to you in response to your inquiry about this PCN.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

Sincerely,

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**PCN# 20111122001**  
**Qualification of Renesas as an Additional Assembly and Test Site option for select devices in the DCU package**

**Qualification Data:**

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

**Qual Vehicle : SN74LVC2G74DCUR (MSL1-260C)**

**Package Construction Details**

Assembly Site:	HTC-Renesas	Mold Compound:	RM500F
# Pins-Designator, Family:	8-DCU, VSSOP	Mount Compound:	RZ241C
Leadframe (Finish, Base):	Matte Sn, Cu	Bond Wire (Mils):	Au, 0.8 Mil Dia.

**Qualification:**     Plan     Test Results

Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
High Temp Operating Life	150C (300hrs)	77/0	77/0	77/0
**High Temp. Storage Bake	170C (420hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0
**Unbiased HAST	130C/85%RH/33.3 psia (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Visual / Mechanical	-	PASS	PASS	PASS
Solderability	Steam age, 8 hours	22/0	22/0	22/0
Lead Pull	-	22/0	22/0	22/0
Lead Fatigue	# of leads, min. 3 units	22/0	22/0	22/0
Lead Finish Adhesion	# of leads, min. 3 units	15/0	15/0	15/0
Physical Dimensions	(per mechanical drawing)	5/0	5/0	5/0
Flammability	Method A - UL94-0	5/0	5/0	5/0
Flammability	Method B - IEC 695-2-2	5/0	5/0	5/0
Flammability	Method C - UL 1694	5/0	5/0	5/0
Bond Strength	76 ball bonds, min. 3 units	80/0	80/0	80/0
Die Shear	-	10/0	10/0	10/0
Manufacturability	(per mfg. Site specification)	PASS	PASS	PASS
Manufacturability - TQ	(per mfg Site specification)	Pass	--	--
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Salt Atmosphere	24 Hrs	22/0	22/0	22/0
X-ray	(top side only)	5/0	5/0	5/0
Bin Yield Equivalence	(per mfg. Site specification)	Pass	-	-
Moisture Sensitivity	(per the appropriate pkg. level)	12/0	12/0	12/0

Notes: \*\* Tests require preconditioning sequence: MSL1-260C

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

<b>Location</b>	<b>E-Mail</b>
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Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>