



**PCN# 20131216002
Qualification of Carrier Tape for Select
UQFN Package Devices
Information Only**

Date: 12/19/2013

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this PCN are for your information only. Please see the attachment details for the planned implementation date.

This notification period is per TI's standard process. Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20131216002
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TPL0501-100RSER	null
TS3USB31ERSER	null
TS3USB31RSER	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20131216002		PCN Date:	12/19/2013																			
Title:	Qualification of Carrier Tape for Select UQFN Package Devices																						
Customer Contact:	PCN Manager	Phone:	+1(214) 480-6037																				
Dept:	Quality Services																						
Change Type:																							
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials																		
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification																		
<input type="checkbox"/>	Test Site	<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process																		
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process																		
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process																		
<input type="checkbox"/>		<input type="checkbox"/>	Part number change	<input type="checkbox"/>																			
PCN Details																							
Description of Change:																							
<p>This notification is to inform of TI's Qualification of Carrier Tape for Select UQFN Package Devices. Carrier Tape design differences shown below:</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Current Carrier Tape (3M081981), mm</th> <th>New Carrier Tape (3M117081), mm</th> </tr> </thead> <tbody> <tr> <td>Ao (Width)</td> <td>1.70 \pm 0.05</td> <td>1.70 \pm 0.05</td> </tr> <tr> <td>Bo (Length)</td> <td>1.70 \pm 0.05</td> <td>1.70 \pm 0.05</td> </tr> <tr> <td>Ko (Depth)</td> <td>0.76 \pm 0.05</td> <td>0.70 \pm 0.05</td> </tr> <tr> <td>Pitch</td> <td>4.0 \pm 0.1</td> <td>4.0 \pm 0.1</td> </tr> <tr> <td>Tape Width</td> <td>8.0 +0.3/-0.1</td> <td>8.0 +0.3/-0.1</td> </tr> </tbody> </table>						Description	Current Carrier Tape (3M081981), mm	New Carrier Tape (3M117081), mm	Ao (Width)	1.70 \pm 0.05	1.70 \pm 0.05	Bo (Length)	1.70 \pm 0.05	1.70 \pm 0.05	Ko (Depth)	0.76 \pm 0.05	0.70 \pm 0.05	Pitch	4.0 \pm 0.1	4.0 \pm 0.1	Tape Width	8.0 +0.3/-0.1	8.0 +0.3/-0.1
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<p>See Attachment A for detail drawings and photographs.</p>																							
Reason for Change:																							
<p>Standardization of tape size for UQFN 1.5x1.5x0.55 mm package size with full SPQ of 5ku per reel.</p>																							
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):																							
<p>None</p>																							
Changes to product identification resulting from this PCN:																							
<p>None</p>																							
Product Affected:																							
HPA00655RSER	SN74AUP2G240RSER	SN74AUP3G07RSER	TPS22933ARSER																				
SN74AUP1G74RSER	SN74AUP2G241RSER	SN74AUP3G14RSER	TPS22933ARSET																				
SN74AUP2G00RSER	SN74AUP2G32RSER	SN74AUP3G17RSER	TPS22960RSER																				
SN74AUP2G02RSER	SN74AUP2G79RSER	SN74AUP3G34RSER	TS3USB31ERSER																				
SN74AUP2G08RSER	SN74AUP2G80RSER	TCA5405RUGR	TS3USB31RSER																				
SN74AUP2G125RSER	SN74AUP3G04RSER	TLV3011AIRUGR	TS3USB31RSERG4																				
SN74AUP2G126RSER	SN74AUP3G06RSER	TPL0501-100RSER	TS5A21366RSER																				

Qualification Data:



Shipping Tape & Reel Qualification Summary (QSS 003-008)

A/T Site: HANA Semiconductor (AYT) Co.,Ltd

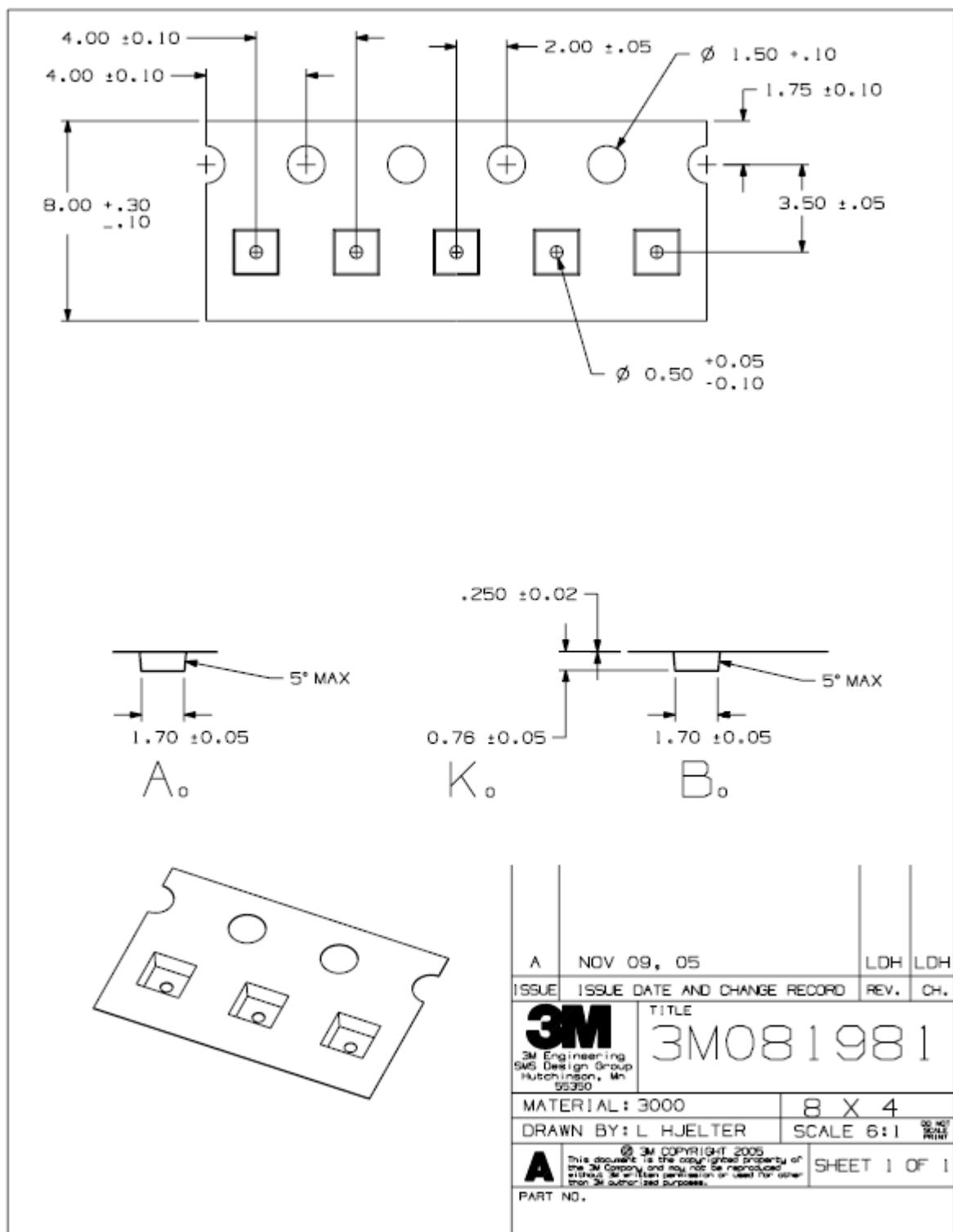
Supplier: 3M
Vendor Part No: 3M117081 (Hana part number : 851140)
TI Part No: N/A (If available)
Weight/meter (g) 2.30 g
Package Description RSE 8L (1.5x1.5X0.55)
Package Designator RSE 8L (1.5x1.5X0.55)
Result: Pass
Date: Nov 11'13

	PASS	(Pass/Fail)
I. First Article Inspection Test	PASS	
II. Manufacturability Test	PASS	
III. Camber Test	PASS	
IV. Surface Resistivity Test	PASS	
V. Dimensional Check (Measured by IQC)	PASS	
VI. Fit Analysis	PASS	
VII. Drop Test	PASS	
VIII. Supplier Drawing	PASS	

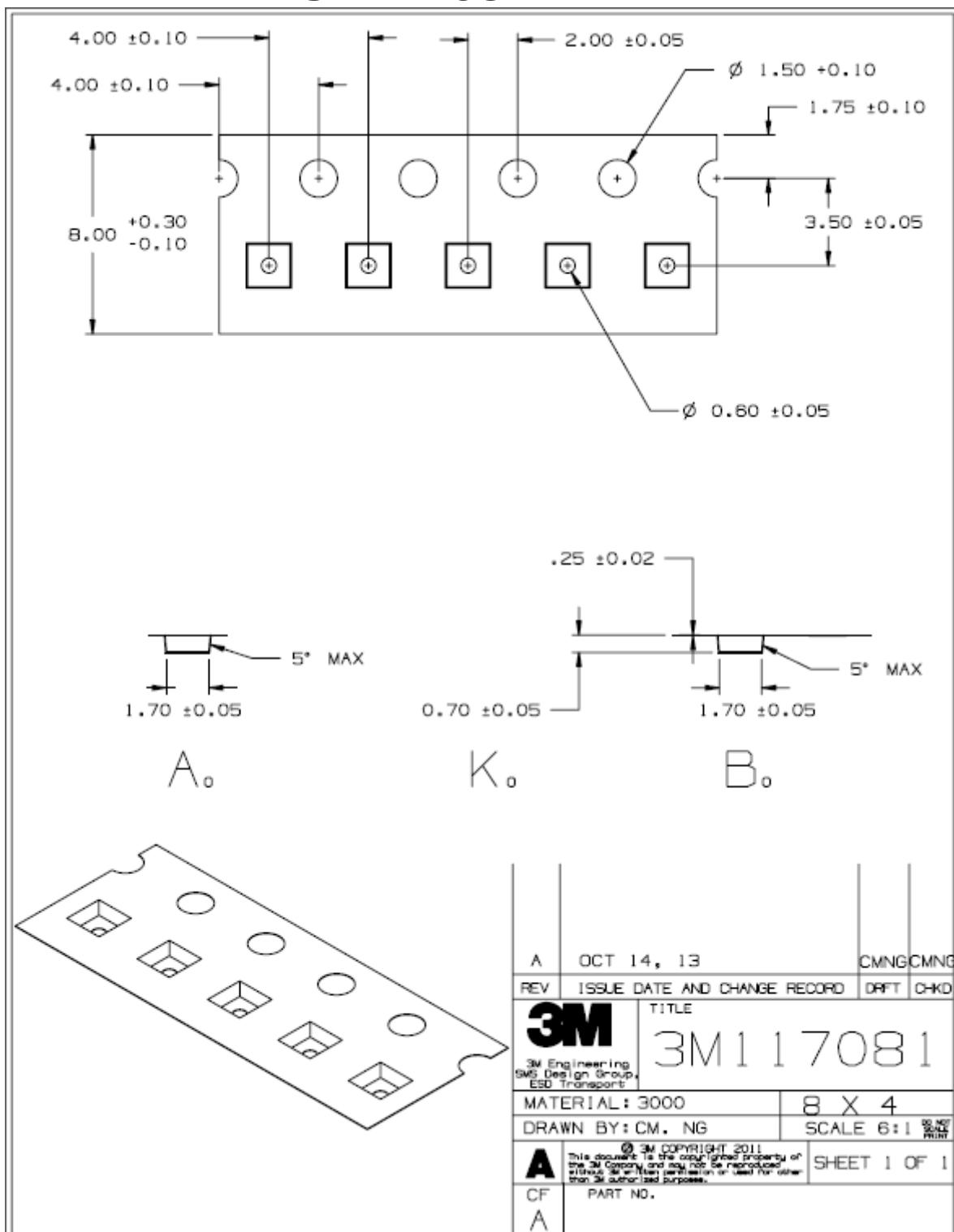
Attachment A

CHANGE FROM 3M081981 TO 3M117081 Carrier Tape

From: **3M081981**



To: **3M117081**



DIMENSIONAL CHECK (MEASURED BY IQC)

Parameters	Nominal Size	RESULTS		RESULTS	
		MIN	MAX	MIN	MAX
Ao	1.7	1.72	1.73	Good	Good
Bo	1.7	1.72	1.73	Good	Good
Ko	0.7	0.69	0.7	Good	Good
P1	4	3.99	4	Good	Good
P2	2	1.98	2.002	Good	Good
Po	4	3.99	4.003	Good	Good
W	8	8.04	8.05	Good	Good
T	0.254	0.25	0.254	Good	Good
E1	1.75	1.72	1.74	Good	Good
F	3.5	3.49	3.51	Good	Good

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