

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																			
Change Type:		Dept:		Quality Services																					
<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:																									
This notification is to inform of TI's Qualification of Carrier Tape for Select UQFN Package Devices. Carrier Tape design differences shown below:																									
<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 ± 0.05</td> <td>1.70 ± 0.05</td> </tr> <tr> <td>Bo (Length)</td> <td>1.70 ± 0.05</td> <td>1.70 ± 0.05</td> </tr> <tr> <td>Ko (Depth)</td> <td>0.76 ± 0.05</td> <td>0.70 ± 0.05</td> </tr> <tr> <td>Pitch</td> <td>4.0 ± 0.1</td> <td>4.0 ± 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 ± 0.05	1.70 ± 0.05	Bo (Length)	1.70 ± 0.05	1.70 ± 0.05	Ko (Depth)	0.76 ± 0.05	0.70 ± 0.05	Pitch	4.0 ± 0.1	4.0 ± 0.1	Tape Width	8.0 +0.3/-0.1	8.0 +0.3/-0.1
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Tape Width	8.0 +0.3/-0.1	8.0 +0.3/-0.1																							
See Attachment A for detail drawings and photographs.																									
Reason for Change:																									
Standardization of tape size for UQFN 1.5x1.5x0.55 mm package size with full SPQ of 5ku per reel.																									
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):																									
None																									
Changes to product identification resulting from this PCN:																									
None																									
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	TS3USB31RSEMG4																						
SN74AUP2G126RSER	SN74AUP3G06RSER	TPL0501-100RSER	TS5A21366RSER																						

Qualification Data:



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

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

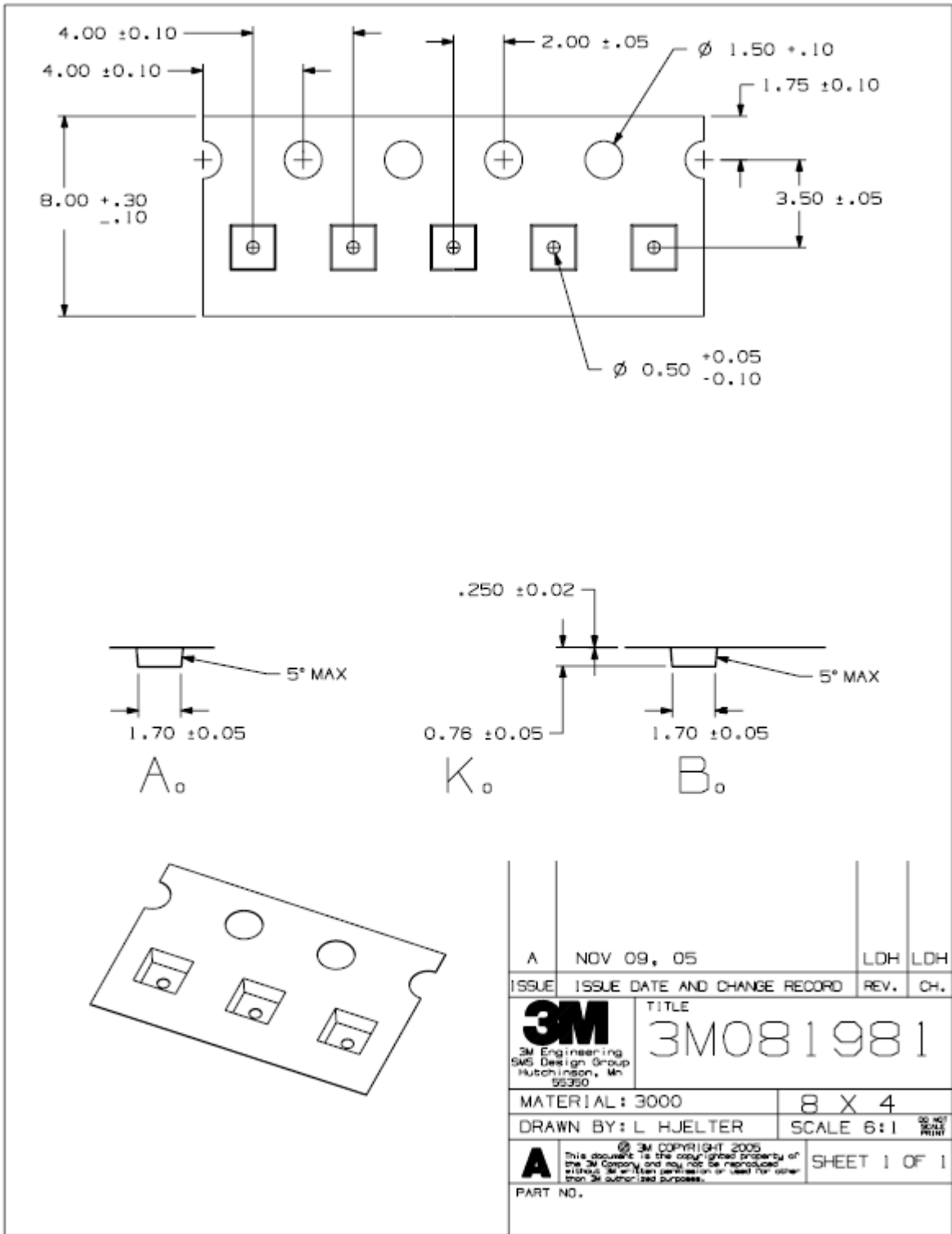
Supplier: 3M
Vendor Part No: 3M117081 (Hana part number : 851140)
TI Part No: N/A (If available)
Weight/meter (g) 2.30 g
Package Description RSE 8L (1.5x1.5X0.55)
Package Designator RSE 8L (1.5x1.5X0.55)
Result: Pass
Date: Nov 11'13

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

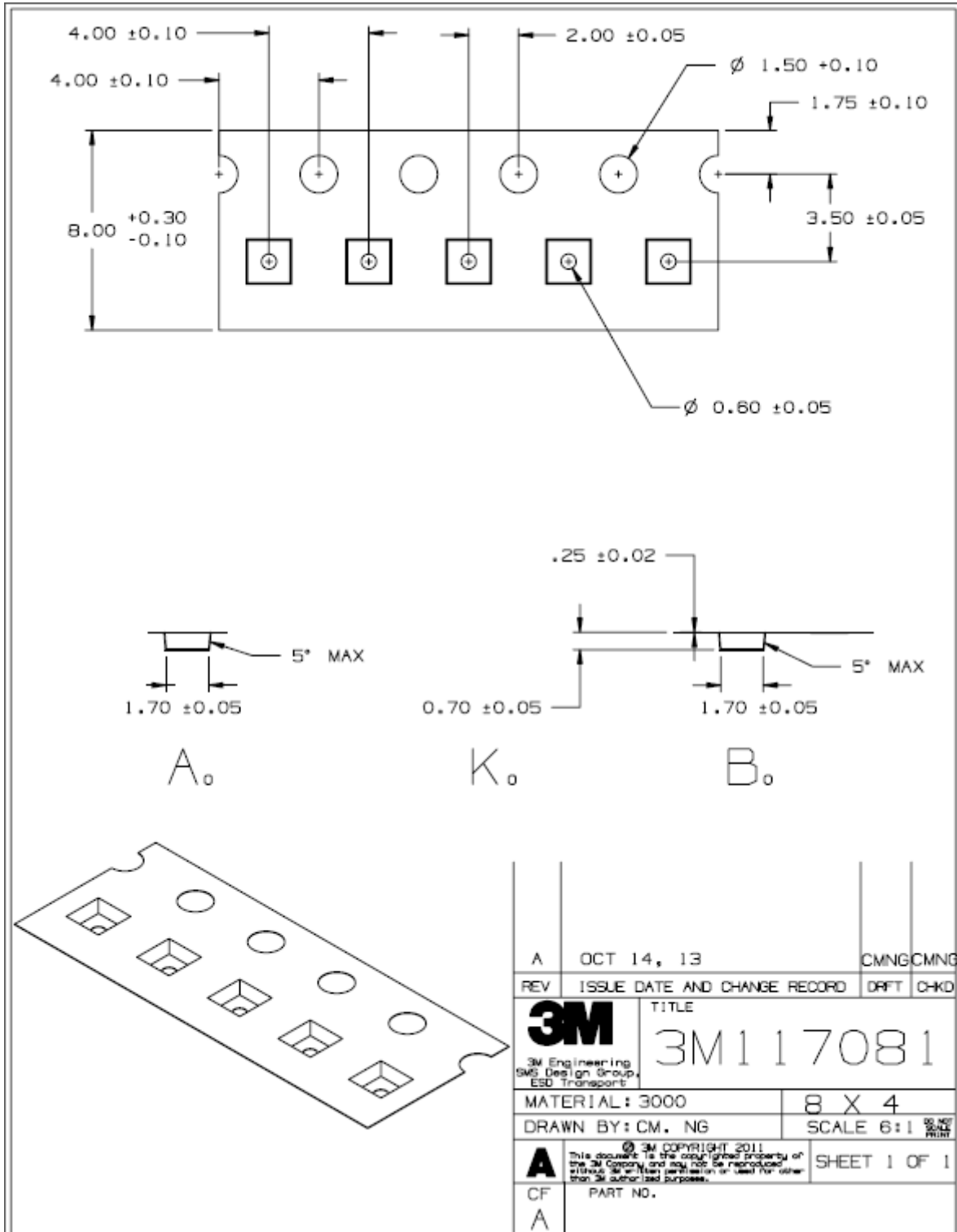
Attachment A

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