

PCN # 20150211000
Qualification of Carrier Tape for 14 / 16 pin SOP
and 28 pin SSOP device
Change Notification / Sample Request

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The proposed first ship date is indicated on page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

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

PCN# 20150211000
Attachment: 1

Products Affected:

According to our records, there are the affected device(s) that you have purchased within the past twenty-four (24) months. Technical details of this Product Change follow on the next page(s).

PCN Number:	20150211000			PCN Date:	02/23/2015																					
Title:	Qualification of Carrier Tape for 14/16 pin SOP and 28 pin SSOP device																									
Customer Contact:	PCN Manager	Dept:	Quality Services																							
Proposed 1st Ship Date:	05/23/2015		Estimated Sample Availability:	Date provided at sample request																						
Change Type:																										
☐	Assembly Site	☐	Design	☐	Wafer Bump Site																					
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Material																					
☐	Assembly Materials	☐	Part number change	☐	Wafer Bump Process																					
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site																					
☒	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials																					
				☐	Wafer Fab Process																					
PCN Details																										
Description of Change:																										
This notification is to inform of TI's Qualification of change for Carrier Tape 4135168-0070 supporting 14/16 pin SOP and 28 pin SSOP package devices. Carrier tape comparison as follows: Carrier Tape Comparison: <table border="1"> <thead> <tr> <th>Item</th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Supplier</td> <td>Cpak</td> <td>Cpak</td> </tr> <tr> <td>Material</td> <td>Polystyrene</td> <td>Polystyrene</td> </tr> <tr> <td>Color</td> <td>Black</td> <td>Black</td> </tr> <tr> <td>Dimension (detail comparison in table 2 in sheet 4)</td> <td> A0 = 8.1mm ± 0.1 B0 = 10.50mm ± 0.1 K0 = 2.5mm ± 0.1 K1 = 2.2mm ± 0.1 W = 16.0mm ± 0.3 </td> <td> A0 = 8.60mm ± 0.1 B0 = 10.50mm ± 0.1 K0 = 2.50mm ± 0.1 K1 = 1.95mm ± 0.1 W = 16.00mm ± 0.1 </td> </tr> <tr> <td>Surface resistivity</td> <td>Between 1.01x 10⁵ to 8.12 x 10⁵</td> <td>Between 1.54x10⁵ to 5.37 x 10⁶</td> </tr> <tr> <td>Part number</td> <td>4135168-0070</td> <td>4212589-0026</td> </tr> </tbody> </table>						Item	Current	Proposed	Supplier	Cpak	Cpak	Material	Polystyrene	Polystyrene	Color	Black	Black	Dimension (detail comparison in table 2 in sheet 4)	A0 = 8.1mm ± 0.1 B0 = 10.50mm ± 0.1 K0 = 2.5mm ± 0.1 K1 = 2.2mm ± 0.1 W = 16.0mm ± 0.3	A0 = 8.60mm ± 0.1 B0 = 10.50mm ± 0.1 K0 = 2.50mm ± 0.1 K1 = 1.95mm ± 0.1 W = 16.00mm ± 0.1	Surface resistivity	Between 1.01x 10 ⁵ to 8.12 x 10 ⁵	Between 1.54x10 ⁵ to 5.37 x 10 ⁶	Part number	4135168-0070	4212589-0026
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Part number	4135168-0070	4212589-0026																								
Reason for Change:																										
Continuity of Packaging																										
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																										
Tape Side pocket reflection causing high rejection rate on lead abnormality during Tape and Reel process																										
Changes to product identification resulting from this PCN:																										
None																										
Product Affected:																										

74AC11008NSR	PCM1804DBR	SN74HC03NSR	SN74LS670NSR
74AC11032NSR	PCM2704CDBR	SN74HC04ANSR	SN74LS74ANSR
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BUS1066H1NSR	SN101178NSR	SN74HC148NSR	SN74LV14ANSR
BUS1072JNSR	SN105239ADBR	SN74HC14ANSR	SN74LV157ANSR
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MAX232NSR	SN74F125NSR	SN74LS279ANSR	TRS213CDBR
MAX3237ECDBR	SN74F138NSR	SN74LS27NSR	TRS213IDBR
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MC3487NSR	SN74F38NSR	SN74LS393NSR	UA733CNSR
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PCM1791ADBR	SN74F86NSR	SN74LS47NSR	ULN2003ANSR
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PCM1794ADBR	SN74HC00NSR	SN74LS590NSR	ULN2004ANSR
PCM1795DBR	SN74HC02ANSR	SN74LS592NSR	
PCM1796DBR	SN74HC02NSR	SN74LS624NSR	

Qualification Data

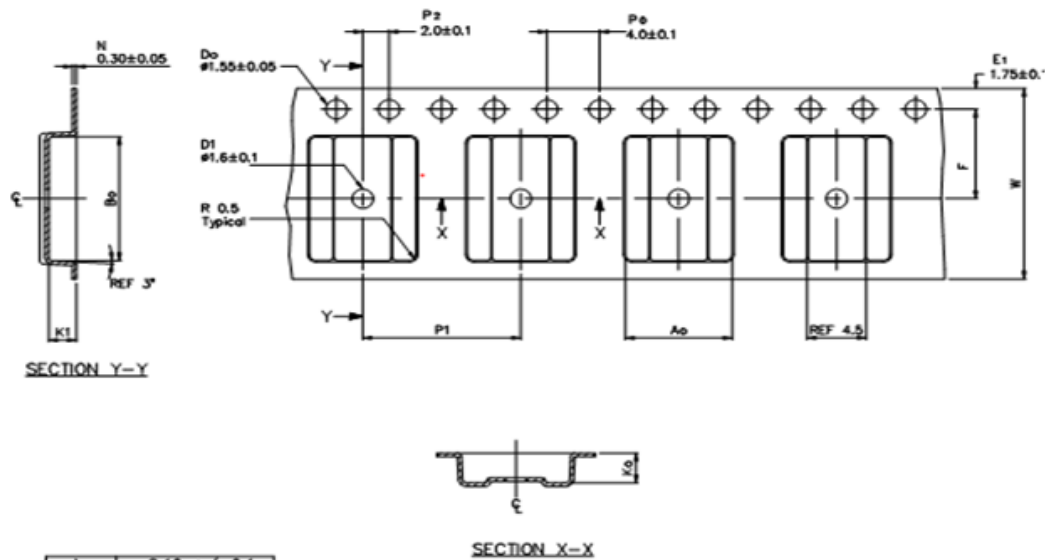
Lead Package Carrier Tape Qualification Summary

Reference (QSS 003-008, 009-006, 014-102, 007-102)

Supplier:	C-PAK PTE LTD
Supplier Part No:	S406031119-01
TI Part No:	4212589-0026 (If available)
Weight/meter (g):	4.8 gm
Material:	14 NS
Package Description:	SOP
Package Designator:	SSOP 28H6 CL3 22X6G3 L390 W16
Result:	PASS
Date:	August 19, 2014

I. First Article Inspection Test	PASS (Pass/Fail)
II. Manufacturability Test	PASS
III. Dimensional Test	PASS
IV. Camber Test	PASS
V. Electrical Test	PASS
VI. Fit Analysis	PASS
VII. Drop Test	PASS

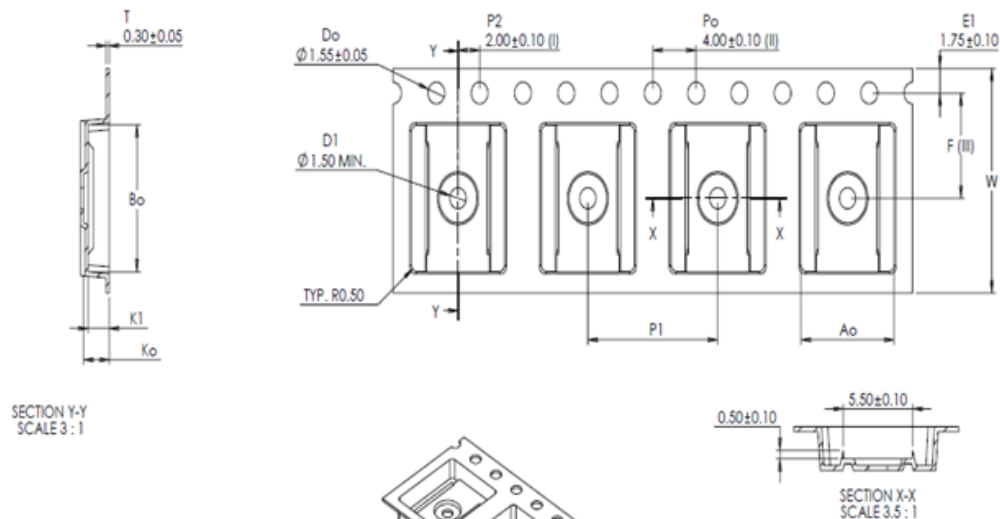
Appendix A: Tape Design comparison Current Tape



Ao	8.10	+/-0.1
Bo	10.40	+/-0.1
Ko	2.50	+/-0.1
K1	2.10	+/-0.1
F	7.50	+/-0.1
P1	12.00	+/-0.1
W	16.00	+/-0.3

TI P/N	C-PAK P/N
413615B-0070	550P28/30

Proposed Tape



Ao	8.60	+/- 0.10
Bo	10.50	+/- 0.10
Ko	2.50	+/- 0.10
K1	1.95	+/- 0.10
F	7.50	+/- 0.10
P1	12.00	+/- 0.10
W	16.00	+/- 0.30

Forming format: Press Form - 17-G
Estimated max. length: 390 meter / 2218G3 reel

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

- (I) Measured from centreline of sprocket hole to centreline of pocket.
- (II) Cumulative tolerance of 10 sprocket holes is ± 0.20 .
- (III) Measured from centreline of sprocket hole to centreline of pocket.
- (IV) Other material available.

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