

PCN Number:	20150211000	PCN Date:	04/17/2015
Title:	Qualification of Carrier Tape for 14/16 pin SOP and 28 pin SSOP device		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<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

PCN Details

Description of Change:

This PCN is canceled. All affected devices will continue to ship using the current carrier tape material. There are design improvements on the proposed carrier tape that needs to be implemented and will require re-qualification.

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:

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

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:

Please see page two of this document for your list of PCN affected devices.

Qualification Data



Revision: C

EQ# :
A/T Site: MLA

Lead Package Carrier Tape Qualification Summary

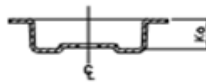
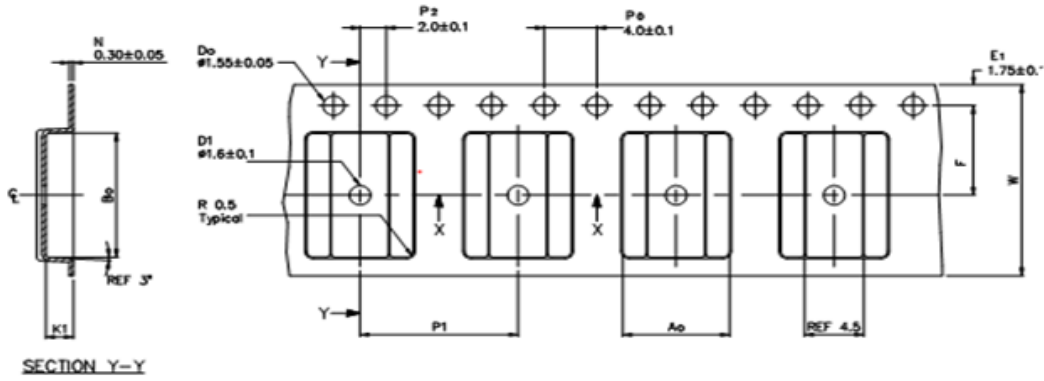
Reference (QSS 003-008, 009-006, 014-102, 007-102)

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

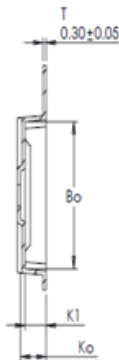


SECTION X-X

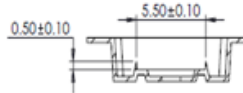
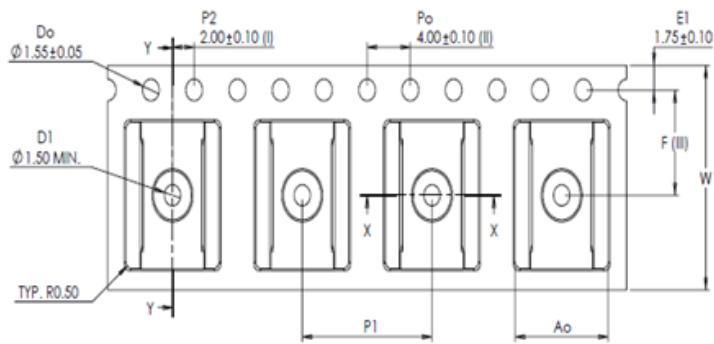
Ao	8.10	+/-0.1
Bo	10.40	+/-0.1
Ko	2.50	+/-0.1
K1	2.10	+/-0.1
F	7.50	+/-0.1
P1	12.00	+/-0.1
W	16.00	+/-0.3

Ti P/N	C-PAK P/N
4136158-0070	55CP28/30

Proposed Tape



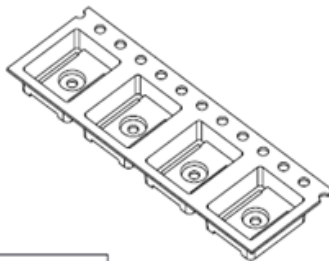
SECTION Y-Y
SCALE 3:1



SECTION X-X
SCALE 3.5:1

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



- (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.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

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