

PCN Number:	20150211000C		PCN Date:	04/09/2015																						
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"/>	Wafer Bump Site																					
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material																					
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process																					
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site																					
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials																					
				<input type="checkbox"/>	Wafer Fab Process																					
PCN Details																										
Description of Change:																										
<p>Revision C is to remove select devices in Group 1 of the Product Affected Section (with strikethrough) and highlighted in yellow. These devices were inadvertently added and not affected by this change. Group 2 device are still affected for this change.</p> <p>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:</p> <p>Carrier Tape Comparison:</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Supplier</td> <td><u>Cpak</u></td> <td><u>Cpak</u></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 = 8.10mm ± 0.1 B0 = 10.40mm ± 0.1 K0 = 2.50mm ± 0.1 K1 = 2.10mm ± 0.1 W = 16.00mm ± 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 ± 0.3</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	<u>Cpak</u>	<u>Cpak</u>	Material	Polystyrene	Polystyrene	Color	Black	Black	Dimension (detail comparison in table 2 in sheet 4)	A0 = 8.10mm ± 0.1 B0 = 10.40mm ± 0.1 K0 = 2.50mm ± 0.1 K1 = 2.10mm ± 0.1 W = 16.00mm ± 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 ± 0.3	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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Supplier	<u>Cpak</u>	<u>Cpak</u>																								
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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. Tape Side pocket reflection causing high rejection rate on lead abnormality during Tape and Reel process																										
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																										
None																										
Changes to product identification resulting from this PCN:																										
None																										
Product Affected Group 1: Retracted Devices																										

ADS7871IDB	PPCM2900CDB	SN74HC138ANS	SN74LS624NS
ADS7871IDBG4	PPCM2902BDB	SN74HC138NS	SN74LS670NS
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AM26C32INS	PPCM2906CDB	SN74HC14ANS	SN74LV04ANS
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AM26LV31CNS	SN65C1167ENS	SN74HC151NS	SN74LV08ANS
AM26LV31INS	SN65C1168ENS	SN74HC153ANS	SN74LV08ANS-P
AM26LV32CNS	SN65C1168ENSG4	SN74HC153NS	SN74LV123ANS
AM26LV32INS	SN65C1168NS	SN74HC157ANS	SN74LV125ANS
AM26LV32INSG4	SN65C3238EDB	SN74HC157NS	SN74LV126ANS
CD4001BNS	SN65LVDS31NS	SN74HC158ANS	SN74LV132ANS
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CD4011BNS	SN7406NS	SN74HC161NS	SN74LV139ANS
CD4012BNS	SN7407NS	SN74HC163ANS	SN74LV14ANS
CD4013BNS	SN74128NS	SN74HC163NS	SN74LV14ANS-P
CD40161BNS	SN7414NS	SN74HC164ANS	SN74LV157ANS
CD40174BNS	SN7416NS	SN74HC164ANS	SN74LV161ANS
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CD4081BNS	SN74AHC02NS	SN74HC259NS	SN74LVC08ANS
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CD4510BNS	SN74AHC08NS	SN74HC27NS	SN74LVC14ANS
CD4518BNS	SN74AHC125NS	SN74HC32ANS	SN74LVC32ANS
CD4527BNS	SN74AHC126NS	SN74HC32NS	SN74LVC74ANS
CD4532BNS	SN74AHC138NS	SN74HC365NS	SN74LVC86ANS
CD4536BNS	SN74AHC139NS	SN74HC367ANS	SN74LVTH125NS
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CD74HC4051NS	SN74AHCT132NS	SN74HC4020NS-P	SN75107BNS

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CDC319DBG4	SN74ALS04BNS	SN74HC595ANS	SN751177NSG4
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DSD1796DBG4	SN74ALS08NS	SN74HC595NS-P	SN75121NS
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LM324ANS	SN74ALS139NS	SN74HC86NS	SN75173NS
LM324NS	SN74ALS151NS	SN74HCT00ANS	SN75175NS
LM339ANS	SN74ALS153NS	SN74HCT00NS	SN75182NS
LM339NS	SN74ALS158NS	SN74HCT04ANS	SN75183NS
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MAX211IDB	SN74ALS21ANS	SN74HCT138NS	SN7534050NS
MAX211IDBE4	SN74ALS27ANS	SN74HCT32ANS	SN7534050NSG4
MAX211IDBG4	SN74ALS30ANS	SN74HCT32NS	SN7534051NS
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MAX213EIDB	SN74ALS74ANS	SN74HCU04NS	SN75ALS1178NSE4
MAX213IDB	SN74ALS86NS	SN74LS00NS	SN75ALS173NS
MAX232NS	SN74ALVC125NS	SN74LS02NS	SN75ALS173NSE4
MAX3237ECDB	SN74AS00NS	SN74LS03NS	SN75ALS175NS
MAX3237ECDBG4	SN74AS02NS	SN74LS04NS	SN75ALS181NS
MAX3237EIDB	SN74AS04NS	SN74LS05NS	SN75ALS181NSE4
MAX3237EIDBG4	SN74AS08NS	SN74LS06NS	SN75ALS192NS
MAX3238CDB	SN74AS08NSG4	SN74LS06NSG4	SN75ALS194NS
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MAX3238CDBG4	SN74AS10NS	SN74LS08NS	SN75C1167NS
MAX3238ECDB	SN74AS138NS	SN74LS09NS	SN75C1168NS
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MAX3238IDB	SN74AS158NS	SN74LS10NS	SN75C189ANS
MAX3243CDB	SN74AS161NS	SN74LS112ANS	SN75C189NS
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MAX3243ECDBG4	SN74AS21NS	SN74LS126ANS	TL064CNS
MAX3243EIDB	SN74AS257NS	SN74LS132NS	TL064INS
MAX3243EIDBG4	SN74AS27NS	SN74LS136NS	TL074ACNS
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MC3486NS	SN74AS74ANS	SN74LS145NS	TL084CNS
MC3487NS	SN74F00NS	SN74LS145NS-P	TL1451ACNS
NE556NS	SN74F02NS	SN74LS148NS	TL1451ACNSG4
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PCM1791ADBG4	SN74F08NS	SN74LS151NS	TL1451CNSG4
PCM1792ADB	SN74F10NS	SN74LS153NS	TL1453CNS
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PCM1795DB	SN74F138NS	SN74LS158NS	TL594CNS
PCM1796DB	SN74F151BNS	SN74LS161ANS	TLC2274CNS
PCM1796DBG4	SN74F157ANS	SN74LS163ANS	TLC2274CNSG4
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PCM2704DB	SN74F20NS	SN74LS174NS	TLC27L4CNS
PCM2704DBG4	SN74F27NS	SN74LS175NS	TLC27M4CNS
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PCM2705CDB	SN74F30NS	SN74LS193NS	TLC374CNS
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PCM2705DBG4	SN74F38NS	SN74LS20NS	TPS2201IDBR
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PCM2902E	SN74HC03NS	SN74LS27NS	TPS2226ADBR
PCM2902EG4	SN74HC04ANS	SN74LS280NS	TPS2226DBR
PCM2903BDB	SN74HC04NS	SN74LS283NS	TRS211CDB
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PCM2906BDB	SN74HC05NS	SN74LS31NS	TRS3237ECDB
PCM2906BS1DB	SN74HC08ANS	SN74LS32NS	TRS3237EIDB
PCM2906CDB	SN74HC08NS	SN74LS33NS	TRS3238ECDB
PCM3001E	SN74HC109NS	SN74LS365ANS	TRS3238EIDB
PCM3001E/2KG4	SN74HC10ANS	SN74LS367ANS	TRS3243ECDB
PCM3001EG4	SN74HC10NS	SN74LS368ANS	TRS3243EIDB
PCM4202DB	SN74HC11ANS	SN74LS37NS	TRS3243IDB
PCM4202DBG4	SN74HC11NS	SN74LS38NS	TRSF3243IDB
PGA2500IDB	SN74HC125ANS	SN74LS390NS	UA723CNS
PGA2500IDBG4	SN74HC125NS	SN74LS393NS	UA733CNS
PPCM1795DB	SN74HC126NS	SN74LS423NS	ULN2003ANS
PPCM2704CDB	SN74HC132ANS	SN74LS47NS	ULN2004ANS
PPCM2705CDB	SN74HC132NS	SN74LS590NS	
PPCM2900BDB	SN74HC132NS-P	SN74LS592NS	

Product Affected Group 2: Affected Devices

74AC11008NSR	MAX211CDBR	SN74F157ANSR	SN74LS33NSR
74AC11032NSR	MAX211IDBR	SN74F161ANSR	SN74LS365ANSR
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74ACT11074NSR	MAX211IDBRG4	SN74F175NSR	SN74LS368ANSR
ADS1256IDBR	MAX213CDBR	SN74F20NSR	SN74LS37NSR
ADS1256IDBRG4	MAX213ECDBR	SN74F257NSR	SN74LS38NSR
ADS1256IDBT	MAX213EDBR	SN74F27NSR	SN74LS390NSR
ADS1256IDBTG4	MAX213EIDBR	SN74F280BNSR	SN74LS393NSR
ADS7871IDBR	MAX213IDBR	SN74F30NSR	SN74LS423NSR
ADS932E/2K	MAX232NSR	SN74F32NSR	SN74LS47NSR
AM26C31CNSR	MAX3237ECDBR	SN74F38NSR	SN74LS51NSR
AM26C31CNSRG4	MAX3237ECDBRG4	SN74F38NSRE4	SN74LS590NSR
AM26C31INSR	MAX3237EIDBR	SN74F74NSR	SN74LS592NSR
AM26C31INSR-B	MAX3237EIDBRG4	SN74F74NSRE4	SN74LS624NSR
AM26C32CNSR	MAX3238CDBR	SN74F74NSRG4	SN74LS624NSRG4

AM26C32CNSRE4	MAX3238CDBRE4	SN74F86NSR	SN74LS670NSR
AM26C32CNSRG4	MAX3238CDBRG4	SN74HC00ANSR	SN74LS74ANSR
AM26C32INSR	MAX3238ECDBR	SN74HC00NSR	SN74LS74ANSRG4
AM26LS31CNSR	MAX3238EIDBR	SN74HC02ANSR	SN74LS75NSR
AM26LS32ACNSR	MAX3238IDBR	SN74HC02NSR	SN74LS85NSR
AM26LS32ACNSRG4	MAX3238IDBRG4	SN74HC02NSRG4	SN74LS86ANSR
AM26LV31CNSR	MAX3243CDBR	SN74HC03NSR	SN74LS90NSR
AM26LV31EINSR	MAX3243CDBRE4	SN74HC04ANSR	SN74LS92NSR
AM26LV31INSR	MAX3243CDBRG4	SN74HC04ANSRE4	SN74LV00ANSR
AM26LV32CNSR	MAX3243ECDBR	SN74HC04NSR	SN74LV00ANSRG4
AM26LV32CNSRG4	MAX3243ECDBRE4	SN74HC04NSRG4	SN74LV02ANSR
AM26LV32EINSR	MAX3243EIDBR	SN74HC05ANSR	SN74LV04ANSR
AM26LV32INSR	MAX3243IDBR	SN74HC05NSR	SN74LV05ANSR
AM26LV32INSRG4	MAX3243IDBRE4	SN74HC05NSRE4	SN74LV06ANSR
BUS1064FNSR	MAX3243IDBRG4	SN74HC05NSRG4	SN74LV06ANSRG4
BUS1065GNSR	MAX3243MDBREP	SN74HC08ANSR	SN74LV07ANSR
BUS1066H1NSR	MC3403NSR	SN74HC08NSR	SN74LV07ANSRG4
BUS1072JNSR	MC3486NSR	SN74HC08NSRE4	SN74LV08ANSR
CD14538BNSR	MC3487NSR	SN74HC08NSRG4	SN74LV10ANSR
CD14538BNSRE4	NE556NSR	SN74HC109NSR	SN74LV11ANSR
CD4001BNSR	PCM1791ADBR	SN74HC109NSRE4	SN74LV123ANSR
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CD4002BNSR	PCM1792ADBRG4	SN74HC10NSR	SN74LV125ATNSR
CD4002BNSRE4	PCM1794ADBR	SN74HC10NSRE4	SN74LV126ANSR
CD4002BNSRG4	PCM1795DBR	SN74HC11ANSR	SN74LV132ANSR
CD4007UBNSR	PCM1796DBR	SN74HC11NSR	SN74LV138ANSR
CD4007UBNSRG4	PCM1804DBR	SN74HC125ANSR	SN74LV139ANSR
CD40102BNSR	PCM1804DBRG4	SN74HC125NSR	SN74LV139ANSRE4
CD40103BNSR	PCM2704CDBR	SN74HC125NSRE4	SN74LV14ANSR
CD40103BNSRG4	PCM2704DBR	SN74HC125NSRG4	SN74LV14ANSRG4
CD40106BNSR	PCM2704DBRG4	SN74HC126ANSR	SN74LV157ANSR
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CD40109BNSRE4	PCM2705DBR	SN74HC132ANSR	SN74LV164ANSR
CD40109BNSRG4	PCM2705DBRG4	SN74HC132NSR	SN74LV165ANSR
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CD4011BNSR	PCM2900CDBR	SN74HC132NSRG4	SN74LV174ANSR
CD4011BNSRG4	PCM2900E/2K	SN74HC138ANSR	SN74LV175ANSR
CD4011UBNSR	PCM2902BDBR	SN74HC138NSR	SN74LV20ANSR
CD4011UBNSRG4	PCM2902CDBR	SN74HC139ANSR	SN74LV21ANSR
CD4012BNSR	PCM2902E/2K	SN74HC139NSR	SN74LV221ANSR
CD4012BNSRG4	PCM2903BDBR	SN74HC139NSRE4	SN74LV27ANSR
CD4013BNSR	PCM2903CDBR	SN74HC148ANSR	SN74LV32ANSR
CD4013BNSRG4	PCM2906BDBR	SN74HC148NSR	SN74LV367ANSR
CD40161BNSR	PCM2906BS1DBR	SN74HC14ANSR	SN74LV393ANSR
CD4016BNSR	PCM2906CDBR	SN74HC14NSR	SN74LV4040ANSR
CD40174BNSR	PCM3001E/2K	SN74HC14NSRE4	SN74LV4046ANSR

CD40175BNSR	PCM4202DBR	SN74HC151ANSR	SN74LV4051ANSR
CD40175BNSRE4	PCM4202DBRG4	SN74HC151NSR	SN74LV4052ANSR
CD4017BNSR	PCM4202DBT	SN74HC153ANSR	SN74LV4053ANSR
CD4017BNSRG4	PCM4202DBTG4	SN74HC153NSR	SN74LV4066ANSR
CD4018BNSR	PCM4202IDBREP	SN74HC157ANSR	SN74LV595ANSR
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CD40193BNSRE4	PPCM2906BDBR	SN74HC158ANSR	SN74LVC00ANSR
CD4019BNSR	SG3524NSR	SN74HC158NSR	SN74LVC00ANSRG4
CD4020BNSR	SN101178NSR	SN74HC161ANSR	SN74LVC02ANSR
CD4020BNSRG4	SN1301037NSR	SN74HC161NSR	SN74LVC02ANSRE4
CD4022BNSR	SN250129NSR	SN74HC163ANSR	SN74LVC04ANSR
CD4022BNSRE4	SN320002NSR	SN74HC163NSR	SN74LVC04ANSRG4
CD4023BNSR	SN65C1167ENSR	SN74HC164ANSR	SN74LVC06ANSR
CD4023BNSRG4	SN65C1167NSR	SN74HC164NSR	SN74LVC07ANSR
CD4024BNSR	SN65C1167NSRG4	SN74HC165ANSR	SN74LVC08ANSR
CD4024BNSRG4	SN65C1168ENSR	SN74HC165NSR	SN74LVC08ANSRE4
CD4025BNSR	SN65C1168NSR	SN74HC165NSRG4	SN74LVC10ANSR
CD4025BNSRE4	SN65C1168NSRG4	SN74HC166ANSR	SN74LVC139ANSR
CD4026BNSR	SN65C3238DBR	SN74HC166NSR	SN74LVC14ANSR
CD4027BNSR	SN65C3238EDBR	SN74HC174ANSR	SN74LVC32ANSR
CD4027BNSRE4	SN65C3243DBR	SN74HC174NSR	SN74LVC32ANSRE4
CD4027BNSRG4	SN65C3243DBRG4	SN74HC175ANSR	SN74LVC74ANSR
CD4028BNSR	SN65LVDS31NSR	SN74HC175NSR	SN74LVC86ANSR
CD4028BNSRE4	SN65LVDS32NSR	SN74HC191NSR	SN74LVT125NSR
CD4028BNSRG4	SN7406NSR	SN74HC193ANSR	SN74LVTH125NSR
CD4029BNSR	SN7407NSR	SN74HC193NSR	SN74LVTH125NSRE4
CD4029BNSRE4	SN7407NSRE4	SN74HC20ANSR	SN74LVTH126NSR
CD4030BNSR	SN7407NSRG4	SN74HC20NSR	SN74LVU04ANSR
CD4030BNSRG4	SN74128NSR	SN74HC21ANSR	SN74S04NSR
CD4040BNSR	SN7414NSR	SN74HC21NSR	SN74S05NSR
CD4042BNSR	SN7416NSR	SN74HC251ANSR	SN74S09NSR
CD4043BNSR	SN7438NSR	SN74HC251NSR	SN74S1051NSR
CD4043BNSRE4	SN74ABT125NSR	SN74HC253NSR	SN74S140NSR
CD4044BNSR	SN74ABT125NSRG4	SN74HC257ANSR	SN74S38NSR
CD4046BNSR	SN74ABT126NSR	SN74HC257NSR	SN74S74NSR
CD4046BNSRE4	SN74AC00NSR	SN74HC258NSR	SN75107ANSR
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CD4049UBNSRG4	SN74AC10NSR	SN74HC266NSR	SN75115NSR
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CD4051BNSRE4	SN74AC32NSR	SN74HC32ANSR	SN751177NSRE4
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CD4089BNSR	SN74AHC4066NSR	SN74HC86NSR	SN75ALS173NSRG4
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CD74HC4075NSR	SN74AS08NSR	SN74LS151NSR	TLC3704CNSR
CD74HC4094NSR	SN74AS109ANSR	SN74LS153NSR	TLC374CNSR
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CD74HC4538NSR	SN74AS158NSR	SN74LS161ANSR	TRS232NSR
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CD74HC597NSR	SN74AS174NSR	SN74LS164NSR	TRS3237EIDBR
CD74HC85NSR	SN74AS175BNSR	SN74LS164NSRE4	TRS3238ECDBR
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CDC319DBRG4	SN74AS21NSR	SN74LS166ANSR	TRS3243CDBR
DSD1796DBR	SN74AS257NSR	SN74LS174NSR	TRS3243ECDBR
LM2901NSR	SN74AS27NSR	SN74LS175NSR	TRS3243ECDBRG4
LM2901NSRG4	SN74AS280NSR	SN74LS191NSR	TRS3243EIDBR
LM2902KNSR	SN74AS32NSR	SN74LS193NSR	TRS3243IDBR
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LM2902NSR	SN74F00NSR	SN74LS20NSR	TRSF3238EIDBR
LM324ANSR	SN74F02NSR	SN74LS21NSR	UA723CNSR
LM324ANSRG4	SN74F04NSR	SN74LS221NSR	UA733CNSR
LM324KANSR	SN74F04NSRG4	SN74LS247NSR	ULN2003AINSR
LM324KNSR	SN74F08NSR	SN74LS251NSR	ULN2003ANSR
LM324NSR	SN74F10NSR	SN74LS257BNSR	ULN2003ANSRE4
LM324NSRE4	SN74F112NSR	SN74LS279ANSR	ULN2003ANSRG4
LM324NSRG4	SN74F112NSRE4	SN74LS27NSR	ULN2004AINSR
LM339ANSR	SN74F112NSRG4	SN74LS280NSR	ULN2004AINSRG4
LM339ANSRG4	SN74F11NSR	SN74LS283NSR	ULN2004ANSR
LM339NSR	SN74F125NSR	SN74LS30NSR	V62/05603-01XE
LM339NSRG4	SN74F138NSR	SN74LS31NSR	V62/06624-01XE
LM348NSR	SN74F151BNSR	SN74LS32NSR	V62/07642-01XE
LM348NSRG4	SN74F153NSR	SN74LS32NSRG4	

Qualification Data



Revision: C

EQ# :
A/T Site: MLA

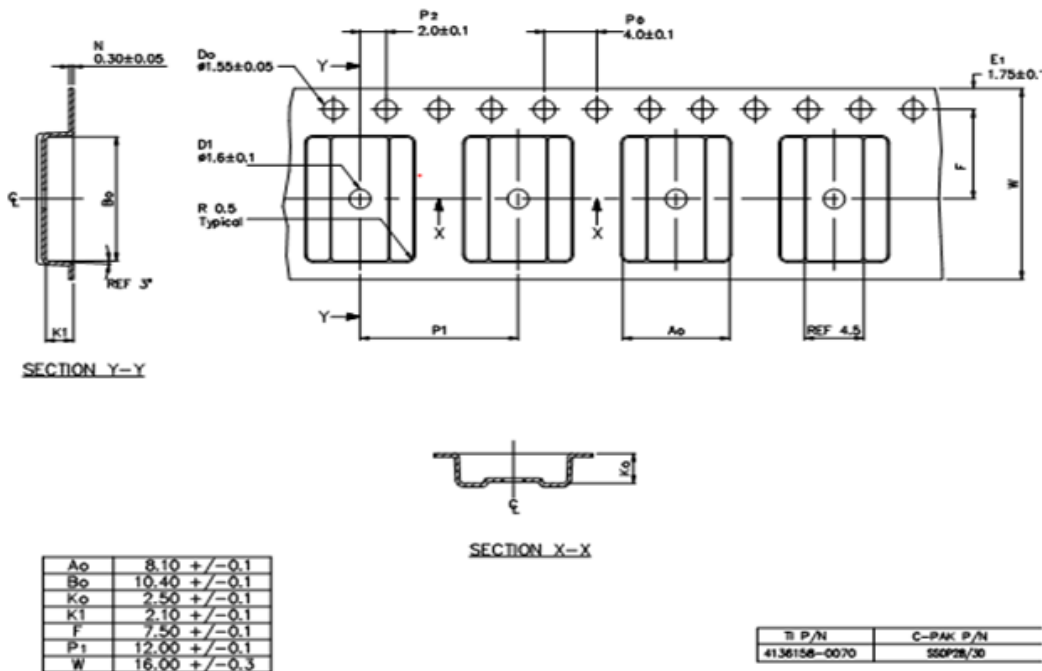
Lead Package Carrier Tape Qualification Summary

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

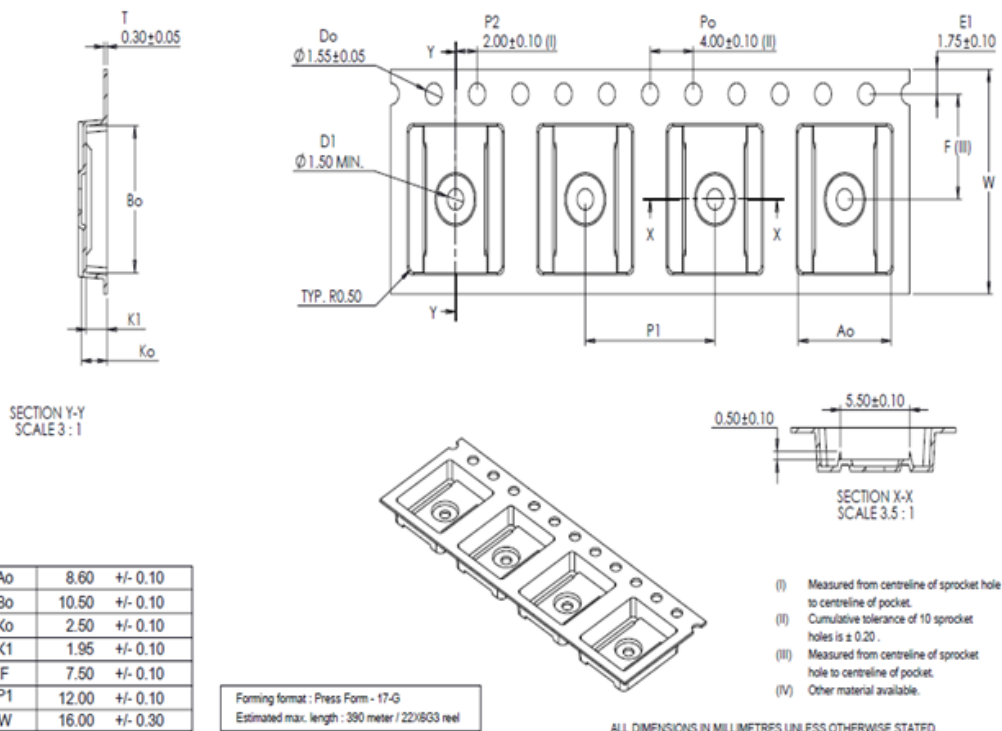
Supplier:	C-PAK PTE LTD
Supplier Part No:	S406031119-01
TI Part No:	4212589-0026 (If available)
Weight/meter (g):	4.8 gm
Material:	14 NS
Package Description:	SOP
Package Designator:	SSOP 28H6 CL3 22X6G3 L390 W16
Result:	PASS
Date:	August 19, 2014

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



Proposed Tape



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
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USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com