



Product Change Notification / LIAL-24K0XB344

Date:

02-Dec-2020

Product Category:

Automotive LED Drivers, Backlight LED Drivers, Battery Management and Fuel Gauges - Battery Chargers, Clock and Timing - Clock and Data Distribution, Clock and Timing - Clock Generation, General Purpose LED Drivers, Hot Swap Controller, Linear Comparators, Linear Op Amps, Linear Regulators, Power Management - Power Switches, Power Management - PWM Controllers, Power Management - System Supervisors/Voltage Detectors, Power MOSFET Drivers, Switching Regulators, Temperature Sensors, Voltage References, Wireless IC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4477 Final Notice Implement additional cover tape, carrier tape and plastic reel material supplier for selected Micrel products available in 3L, 5L, 6L and 8L SOT23, 5L and 6L TSOP and 8L SOIC packages at STAR assembly site.

Affected CPNs:

[LIAL-24K0XB344_Affected_CPN_12022020.pdf](#)

[LIAL-24K0XB344_Affected_CPN_12022020.csv](#)

Notification Text:

PCN Status:Final notification.

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Implement additional cover tape, carrier tape and plastic reel material supplier for selected Micrel products available in 3L, 5L, 6L and 8L SOT23, 5L and 6L TSOP and 8L SOIC packages at STAR assembly site.

Pre Change: Using CPAK carrier tape, cover tape and plastic reel material

Post Change: Using CPAK carrier tape, cover tape and plastic reel material or 3M carrier tape and cover tape material or U-PAK carrier tape and cover tape material and LPP plastic reel material.

Pre and Post Change Summary:

NOTE: See attached Packing Pre and Post Changes for the changes of the following.

			Pre Change	Post Change			
Packing location			Stars Microelectronics (Thailand) Public Company Limited (STAR)	Stars Microelectronics (Thailand) Public Company Limited (STAR)			
Packing Supplier			CPAK note1 and note2	CPAK note1	3M note1	U-PAK note1	LPP note2
SOT23-3/5/6/8L and TSOT-5L/6L packages	Carrier Tape		Minor dimensional changes. See pre and post change comparison.				
	Cover tape	Sealing Method	Heat Seal	Heat Seal		Heat Seal	
		Dimensions	Minor dimensional changes. See pre and post change comparison.				
	Plastic reel	Color	Blue	Blue			
		Dimensions	Minor dimensional changes. See pre and post change comparison.				
SOIC 8L package	Carrier Tape		Minor dimensional changes. See pre and post change comparison.				
	Cover tape	Sealing Method	Heat Seal	Heat Seal		Heat Seal	
		Dimensions	Minor dimensional changes. See pre and post change comparison.				

*Note1: Carrier Tape and Cover tape supplier

*Note 2: Reel supplier

Impacts to Data Sheet:None

Change Impact:

None

Reason for Change:

Due to unforeseen business conditions and to improve on-time delivery performance, Microchip has qualified 3M and UPAK as an additional cover tape and carrier supplier and LPP as additional reel supplier at STAR assembly site effective immediately.

Change Implementation Status:

In Progress

Estimated First Ship Date:December 2, 2020 (date code: 2049)

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

	December 2020				
Workweek	49	50	51	52	53
Qual Report Availability	X				
Final PCN Issue Date	X				
Estimated Implementation Date	X				

Method to Identify Change: Traceability code

Qualification Report

Not applicable

Revision History:

December 2, 2020: Issued final notification. Provided estimated first ship date to be on December 2, 2020.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachments:

[PCN LIAL-24KOXB344 Pre and Post change comparison.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

Terms and Conditions:

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Microchips PCN email service in the [PCN FAQ](#) section.

If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

**CCB 4477: Implement additional cover tape, carrier tape and plastic reel material supplier for selected Micrel products available in 3L, 5L, 6L and 8L SOT23, 5L and 6L TSOP and 8L SOIC packages at STAR assembly site.
PCN#: LIAL-24K0XB344**

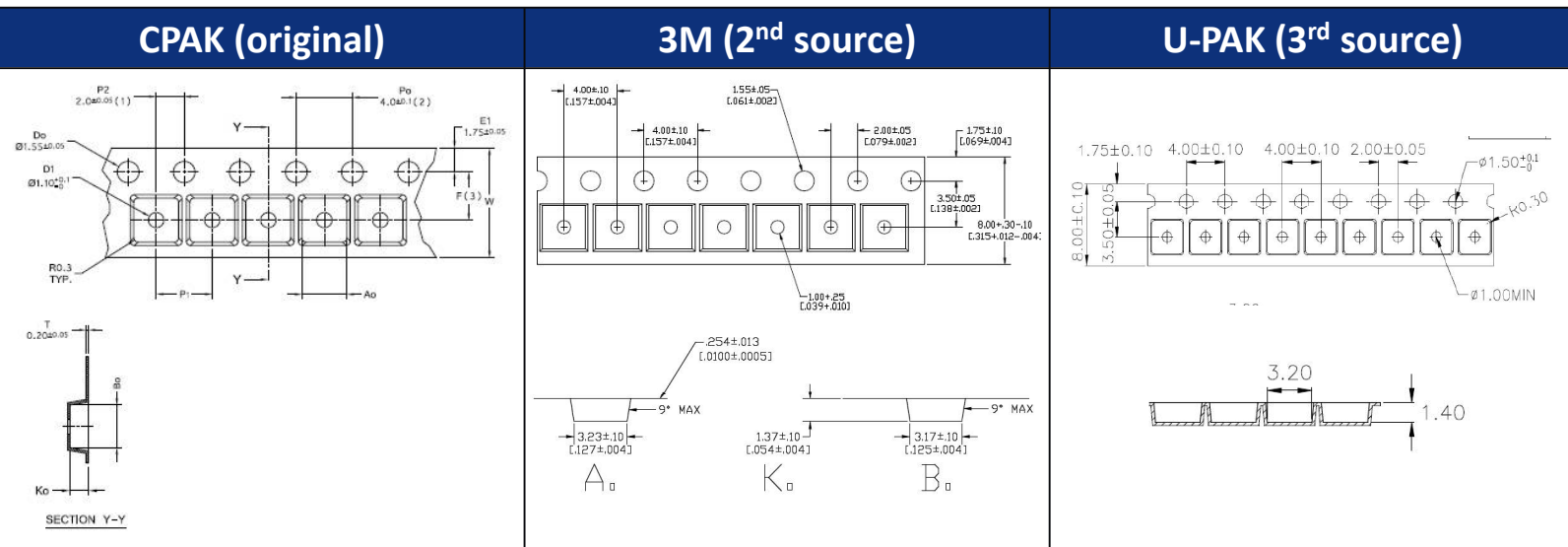


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Carrier Tape for SOT23-3/5/6/8L , TSOT-5L/6L



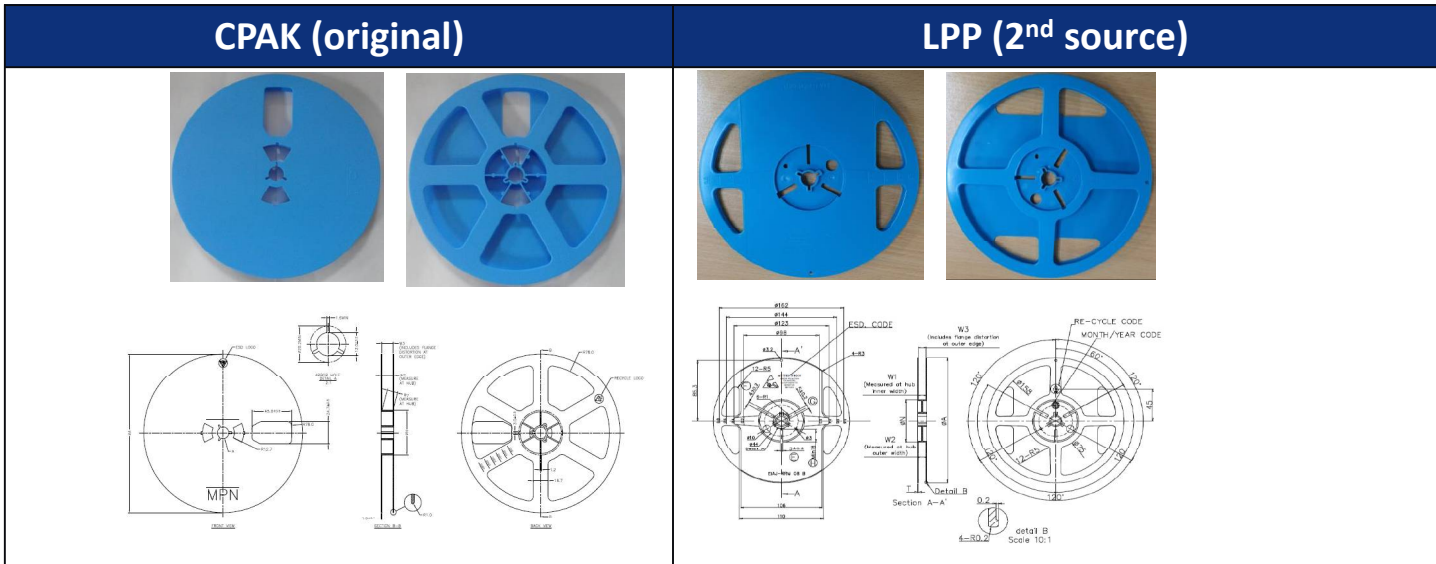
Carrier Tape Supplier	Supplier Mfg. part no.	Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)
CPAK	CP197	8.00 ±0.100	4.00 ±0.100	3.20 ±0.10	3.20 ±0.10	1.40 ±0.10	0.20 ±0.05
3M	0A85CARR SOT23	8.00 +0.30/-0.10	4.00 ±0.100	3.23 ±0.10	3.170 ±0.10	1.370 ±0.10	0.254 ±0.013
U-PAK	SMSC323214	8.00 ±0.100	4.00 ±0.100	3.20 ±0.10	3.20 ±0.10	1.40 ±0.10	0.20 ±0.05

Cover Tape for SOT23-3/5/6/8L , TSOT-5L/6L

CPAK (original)	3M (2 nd source)	U-PAK (3 rd source)			
	<table border="1" data-bbox="605 976 938 1119"> <tr> <td>Static Dissipative Heat Activated Cover Tape 2675 Standard Width</td> </tr> <tr> <td>"A" (mm)</td> </tr> <tr> <td>5.4 ± 0.1</td> </tr> </table>	Static Dissipative Heat Activated Cover Tape 2675 Standard Width	"A" (mm)	5.4 ± 0.1	
Static Dissipative Heat Activated Cover Tape 2675 Standard Width					
"A" (mm)					
5.4 ± 0.1					

Supplier	Supplier Mfg. part no.	Carrier width (mm)	Cover tape Width "W" (mm)	Thickness (mm)	Sealing Methodology
CPAK	CP38-054A,5.4 mm	8.4	5.4 ± 0.1 mm	0.055 ± 0.01mm	Heat Seal
3M	2675,5.4 mm	8.4	5.4 ± 0.1 mm	0.062 ± 0.013mm	Heat Seal
U-PAK	UP-175-054	8.4	5.4 ± 0.1 mm	0.048 ± 0.050mm	Heat Seal

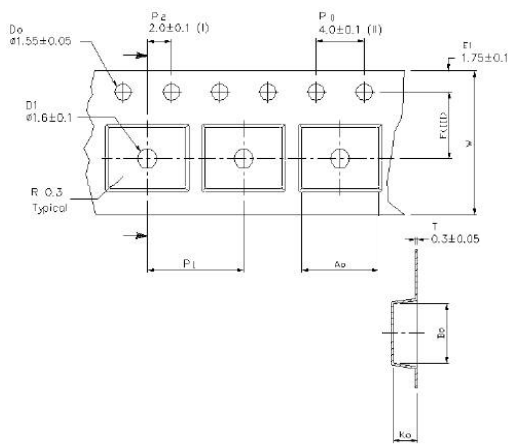
Plastic Reel 7 inch for SOT23-3/5/6/8L , TSOT-5L/6L



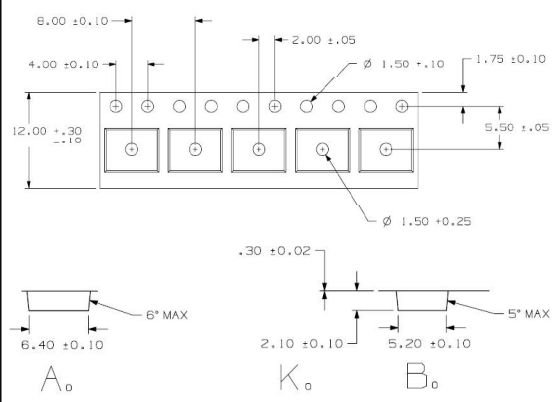
Supplier	Carrier Tape Width (W1)	Diameter (ΦA)	Hub (ΦN)	Color
CPAK	8.4 +1.5/-0 mm	180 mm max	50mm min	Blue shade
LPP	8.4 +1.5/-0 mm	172 ± 2.0 mm	60.5 ± 0.50mm	Blue shade

Carrier Tape for SOIC8L

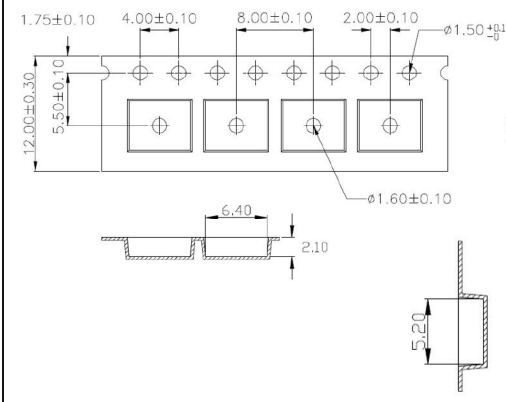
CPAK (original)



3M (2nd source)



U-PAK (3rd source)



Carrier Tape Supplier	Supplier Mfg. part no.	Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)
CPAK	CPD-092A	12.00 ±0.100	8.00 ±0.100	6.40 ±0.10	5.20 ±0.10	2.10 ±0.10	0.30 ±0.05
3M	TWO13611-4	12.00 +0.30/-0.10	8.00 ±0.100	6.40 ±0.10	5.20 ±0.10	2.10 ±0.10	0.30 ±0.02
U-PAK	UPKSOIC08A-SMS	12.00 ±0.100	8.00 ±0.100	6.40 ±0.10	5.20 ±0.10	2.10 ±0.10	0.30 ±0.05



Cover Tape for SOIC8L

CPAK (original)	3M (2 nd source)	U-PAK (3 rd source)			
	<table border="1" data-bbox="646 1010 873 1115"> <tr> <td>Static Dissipative Heat Activated Cover Tape 2675 Standard Width</td> </tr> <tr> <td>"A" (mm)</td> </tr> <tr> <td>9.3 ± 0.1</td> </tr> </table>	Static Dissipative Heat Activated Cover Tape 2675 Standard Width	"A" (mm)	9.3 ± 0.1	
Static Dissipative Heat Activated Cover Tape 2675 Standard Width					
"A" (mm)					
9.3 ± 0.1					

Supplier	Supplier Mfg. part no.	Carrier width (mm)	Cover tape Width "W" (mm)	Thickness (mm)	Sealing Methodology
CPAK	CP38-054A, 5.4 mm	12	9.2 ± 0.1 mm	0.056 ± 0.005 mm	Heat Seal
3M	2675, 9.3 mm	12	9.3 ± 0.1 mm	0.062 ± 0.013 mm	Heat Seal
U-PAK	UP-175-093	12	9.3 ± 0.1 mm	0.048 ± 0.050 mm	Heat Seal

LIAL-24K0XB344 - CCB 4477 F carrier tap 5L

6L and 8L ; 5L and 6L TSOP and 8L SOIC packages at STAF

Affected Catalog Part Numbers(CPN)

A103267-TR
MIC38HC42YM-TR
MIC38HC44YM-TR
MIC38HC45YM-TR
MIC2951-3.3YM-TR
MIC37101-1.5YM-TR
MIC37101-1.65YM-TR
MIC37101-1.8YM-TR
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MIC37301-1.5YME-TR
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MIC37301-2.5YME-TR
MIC37303YME-TR
MIC38C43XYM-TR
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MIC5156-3.3YM-TR
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MIC2514YM5-TR
MIC2778-1YM5-TR
MIC2778-2YM5-TR
MIC2779H-2YM5-TR
MIC2779L-2YM5-TR
MIC2774H-17YM5-TR
MIC2774H-22YM5-TR
MIC2774H-25YM5-TR
MIC2774H-28YM5-TR
MIC2774H-29YM5-TR
MIC2774H-44YM5-TR
MIC2774L-17YM5-TR
MIC2774L-22YM5-TR
MIC2774L-23YM5-TR
MIC2774L-25YM5-TR
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MIC2774L-31YM5-TR
MIC2774L-44YM5-TR
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MIC2250-2YD5-TR
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