

Pre and Post Change Summary:

Date:

Product Change Notification / MFOL-24JWZC544

27-Jan-2022
Product Category:
Wireless IC
PCN Type:
Manufacturing Change
Notification Subject:
CCB 4918 Final Notice: Qualification of STAR as an additional final test site for selected Micrel MICRF211xxx, MICRF213xxx and MICRF218xxx device families available in 16L QSOP (.150in) package.
Affected CPNs:
MFOL-24JWZC544_Affected_CPN_01272022.pdf MFOL-24JWZC544_Affected_CPN_01272022.csv
Notification Text:
PCN Status: Final Notification
PCN Type:Manufacturing Change
Microchip Parts Affected: Please open one of the files found in the Affected CPNs section. Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)
Description of Change: Qualification of STAR as an additional final test site for selected Micrel MICRF211xxx, MICRF213xxx and MICRF218xxx device families available in 16L QSOP (.150in) package.

		Pre Change	Post Change			
		Unisem (M) Berhad	Unisem (M)	Berhad	Stars Microelectronics (Thailand) Public	
Final ⁻	Test Site	Perak,	Perak, Malaysia		Company Limited	
		Malaysia (UNIS)	(UNIS)		(STAR)	
Base Quantity	Tape and Reel	2500	2500		2500	
Multiple (BQM)	Tube	98	98		98	
PIN 1	Tape and Reel	Quadrant 1	Quadrant 1		Quadrant 1	
Orientation	Tube	-	See Pre and Post	change compariso	son.	
Carri	er Tape	See Pre and Post change comparison.			on.	
Cove	Cover Tape		See Pre and Post change comparison.			
Plastic Reel	Color		Dark Blue		Light Blue	
Dimension		See Pre and Post change compariso		on.		
Tube	Color	Clear Clear			lear	
Tube	Dimension		See Pre and Post change comparison.			
Packing Method		See Pre and Post change comparison.				

Impacts to Data Sheet:None

Change Impact:None

Reason for Change:To improve on-time delivery performance by qualifying STAR as an additional final test site.

Change Implementation Status:In Progress

Estimated First Ship Date:January 28, 2022 (date code: 2205)

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

Time Table Summary:

January 2022

Workweek	2	3	4	5	6
Qual Report Availability				Х	
Final PCN Issue Date				Х	
Estimated Implementation Date				Х	

Method to Identify Change:

Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN # Qual Report.

Revision History:

January 27, 2022: Issued final notification.

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

Attachments:

PCN_MFOL-24JWZC544_Qual Report.pdf PCN_MFOL-24JWZC544_Pre and Post Change Summary.pdf

Please contact your local Microchip sales office with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile</u>, <u>including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

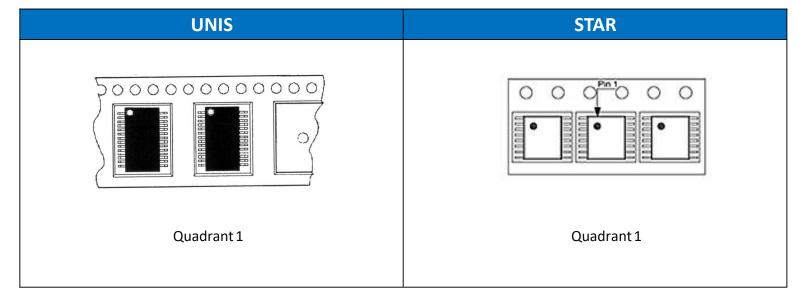
FINAL CCB# 4918 PCN #: MFOL-24JWZC544



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Pre and Post Change Summary – Pin 1 Orientation



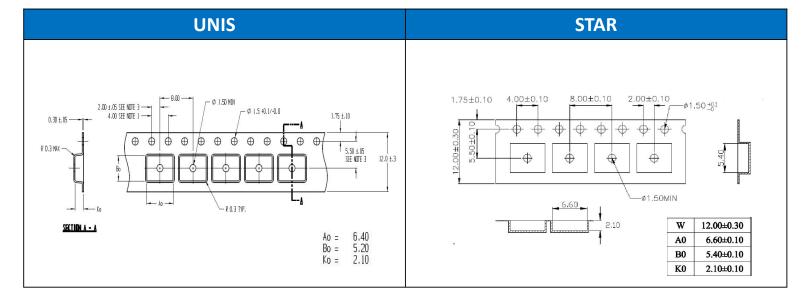


Pre and Post Change Summary - Base Quantity Multiple (BQM) per reel

UNIS	STAR
Units per reel: 2500	Units per reel: 2500
1 reel per bag	1 reel per bag



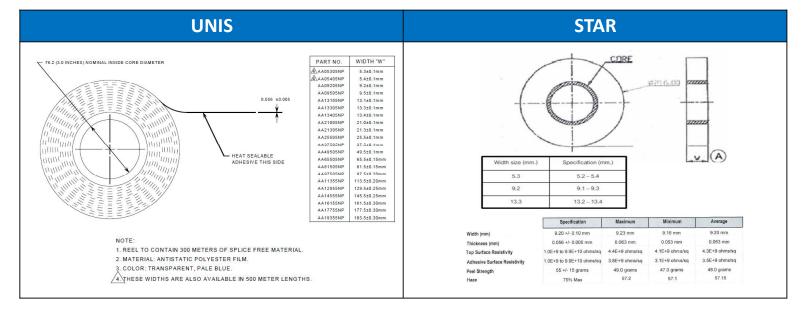
Pre and Post Change Summary - Carrier Tape



Plant	W (mm.) ±0.3	P (mm.) ±0.1 or Specific	A ₀ ±0.1 or Specific	B ₀ ±0.1 or Specific	K₀ ±0.1 or Specific
UNIS	12.00	8	6.40	5.20	2.10
STAR	12.00	8	6.60	5.40	2.10



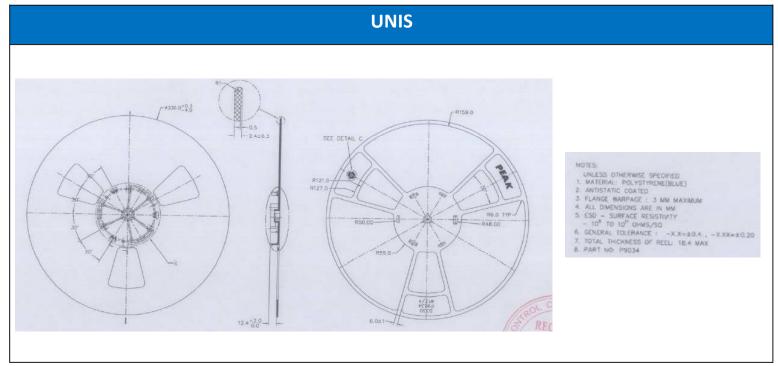
Pre and Post Change Summary - Cover Tape



Plant	Carrier Tape Width	Cover Tape Width	Thickness	Color	Sealing mythology
UNIS	12mm	9.20 +/-0.1mm	0.056+/-0.005	Clear	Heat Sealing
STAR	12mm	9.20 +/-0.3mm	0.050+/-0.005	Clear	Heat Sealing

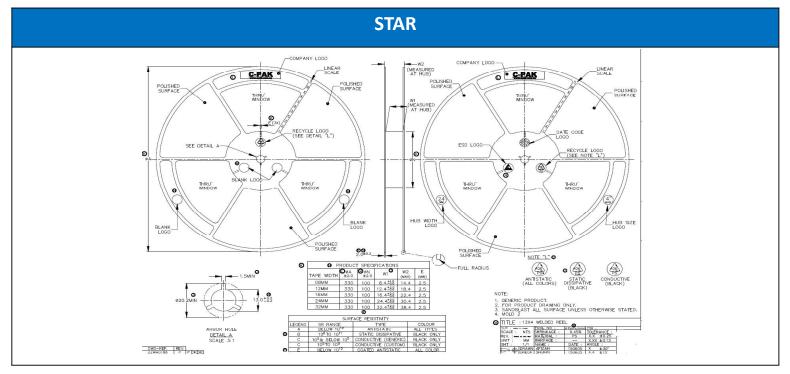


Pre and Post Change Summary - Plastic Reel





Pre and Post Change Summary - Plastic Reel





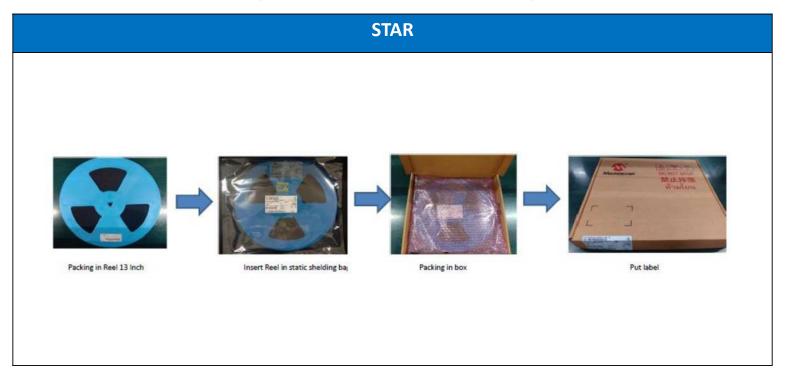
Pre and Post Change Summary – Packing Method

UNIS



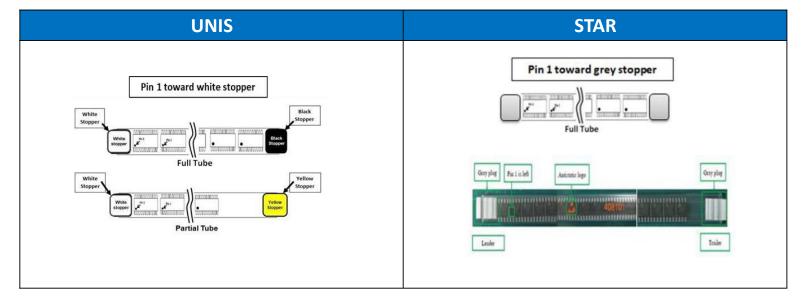


Pre and Post Change Summary – Packing Method





Pre and Post Change Summary – Tube (Pin1 Orientation)



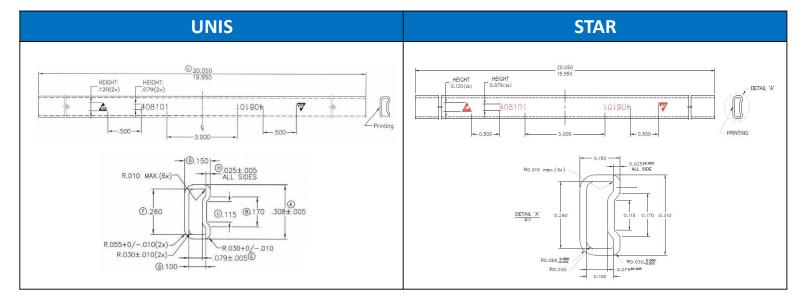


Pre and Post Change Summary – Tube Base Quantity Multiple (BQM) per tube

UNIS	STAR
Units per tube: 98	Units per tube: 98



Pre and Post Change Summary – Packing Tube dimension



Plant	Color
UNIS	Clear
STAR	Clear

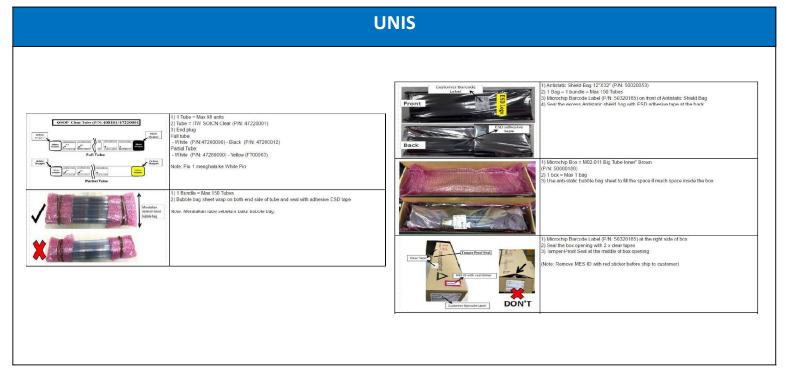


Pre and Post Change Summary – Tube Plug Color

UNIS	STAR
Full Tube: White – Black Partial Tube: White – Yellow	Grey-Grey

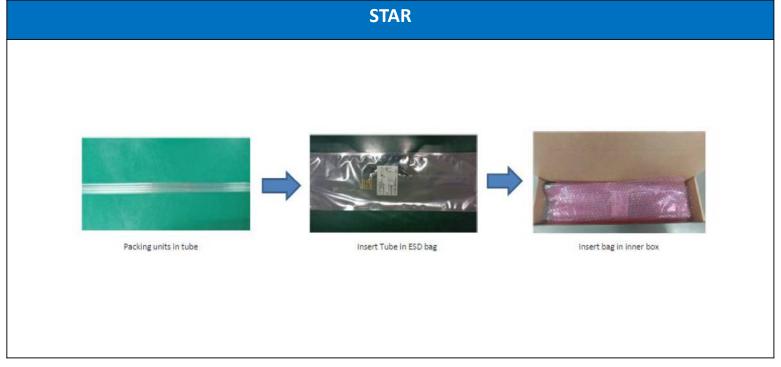


Pre and Post Change Summary – Tube Packing Method



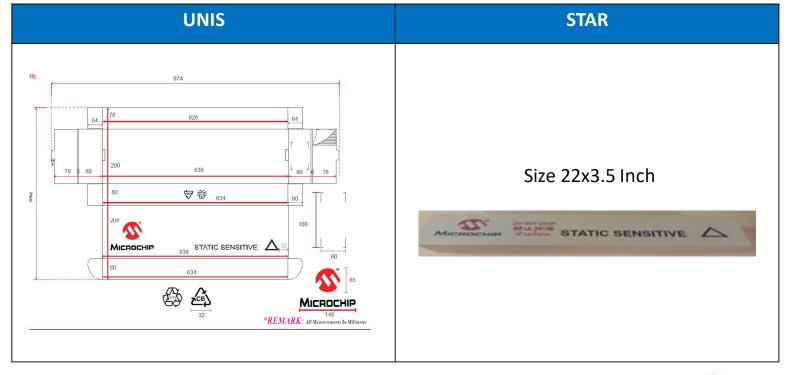


Pre and Post Change Summary – Tube Packing Method





Pre and Post Change Summary – Inner Box Size







QUALIFICATION REPORT SUMMARY RELIABILITY LABORATORY

PCN #: MFOL-24JWZC544

Date: December 11, 2021

Qualification of STAR as an additional final test site for selected Micrel MICRF211xxx, MICRF213xxx and MICRF218xxx, device families available in 16L QSOP (.150in) package.



Purpose Qualification of STAR as an additional final test site for selected Micrel

MICRF211xxx, MICRF213xxx and MICRF218xxx, device families available in 16L

QSOP (.150in) package.

CCB No. 4918

Test / Evaluation	Test Condition / Parameters	RESULT
Original Final Test Site Correlation	Run 3,000 devices to the test flows at the original site.	Passed - 100% For the Yield and Bin correlation
Destination FT Site Correlation	Send 3,000 tested parts to the destination test site.	Passed - 100% For the Yield and Bin correlation
Parametric comparison	Using 33 units from the 3K sample, compare all parametric test deltas.	Passed

MFOL-24JWZC544 - CCB 4918 Fin: MICRF213xxx and MICRF218xxx device families available in 16L QSO

Affected Catalog Part Numbers(CPN)

MICRF218AYQS

MICRF211AYQS

MICRF213AYQS

MICRF211AYQS-TR

MICRF213AYQS-TR

MICRF218AYQS-TR