

Product Change Notification / MFOL-21ZHLK418

Date:

07-Mar-2022

Product Category:

Wireless IC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5033 Initial Notice: Qualification of STAR as an additional final test site for selected MICRF229xx and MICRF230xx device families available in 16L QSOP (3.90mm) package.

Affected CPNs:

MFOL-21ZHLK418_Affected_CPN_03072022.pdf MFOL-21ZHLK418_Affected_CPN_03072022.csv

Notification Text:

PCN Status: Initial 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 MICRF229xx and MICRF230xx device families available in 16L QSOP (.150in) package.

Pre and Post Change Summary:

			Pre Change	Post	Change	
Final Test Site			Unisem (M) Berhad	Unisem (M) Berhad	Stars Microelectronics (Thailand) Public	
			Perak, Malaysia	Perak, Malaysia	Company Limited	
			(UNIS)	(UNIS)	(STAR)	
Base	Таре	(-TR)	2500	2500	2500	
Quantity Multiple			500	500	500	
(BQM)	Tu	be	98	98	98	
PIN 1	Tape and Reel		Quadrant 1	Quadrant 1	Quadrant 1	
Orientation	Tube		See Pre and Post change comparison.			
Carrie	r Tape		See Pre and Post change comparison.			
Cover	Таре		See Pre and Post change comparison.			
Diactic Dool	Color		Dark Blue Light Blue			
ridslic keel	Plastic Reel Dimension		See	mparison.		
Tube	Со	lor	Clear Clear			
Tube	Dime	nsion	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 additional final test site.

Change Implementation Status: In Progress

Estimated Qualification Completion Date: April 2022

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

	March 2022			April 2022					
Workweek	10	11	12	13	14	15	16	17	18
Initial PCN Issue Date		х							
Qual Report Availability						х			
Final PCN Issue Date						х			

Method to Identify Change: Traceability code

Qualification Plan:Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History:

March 07, 2022: Issued initial 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-21ZHLK418_Qual Plan.pdf PCN_MFOL-21ZHLK418_Pre_and_Post 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 PCN home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the PCN FAQ section.

If you wish to <u>change your PCN profile, 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.



QUALIFICATION PLAN SUMMARY RELIABILITY LABORATORY

PCN #: MFOL-21ZHLK418

Date: February 16, 2022

Qualification of STAR as an additional final test site for selected MICRF229xx and MICRF230xx device families available in 16L QSOP (3.90mm) package.



Purpose Qualification of STAR as an additional final test site for selected MICRF229xx and MICRF230xx device families available in 16L QSOP (3.90mm) package.

CCB No. 5033

Test / Evaluation	Test Condition / Parameters
Correlation Plan	 33 correlation units of of MICRF229YQS to be tested at UNIS and send to STAR. 3,000 untested units from each package size for yield and bin-to-bin comparison (UNIS to STAR).

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Affected Catalog Part Numbers (CPN)

MICRF229YQS MICRF230YQS MICRF229YQS-T5 MICRF229YQS-TR MICRF230YQS-T5 MICRF230YQS-TR



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions

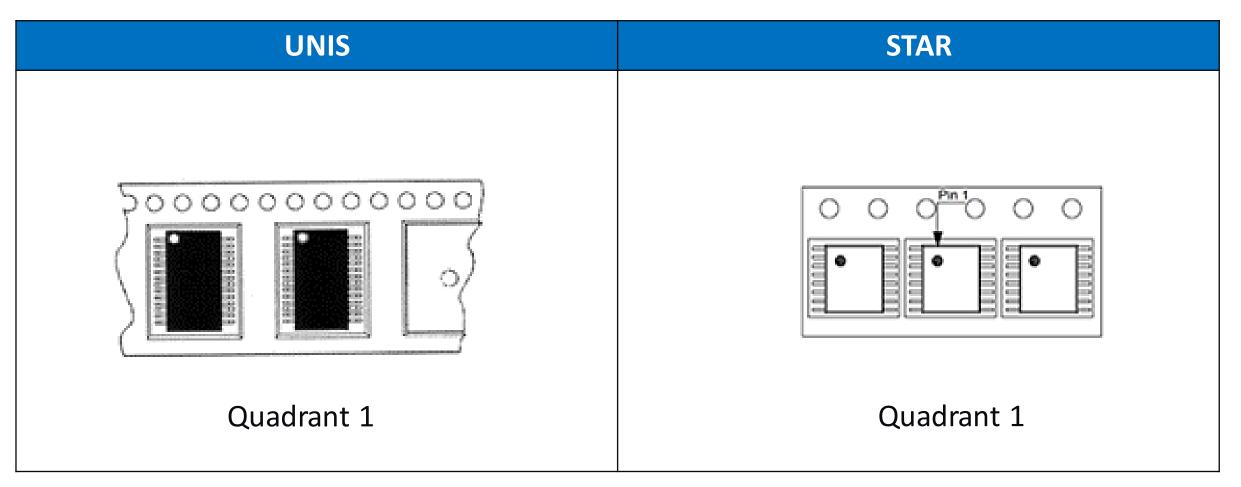


Pre and Post Change Summary – Base Quantity Multiple (BQM) per reel

UNIS	STAR
(-TR) Units per reel: 2500 1 reel per bag (-T5) Units per reel: 500 1 reel per bag	(-TR) Units per reel: 2500 1 reel per bag (-T5) Units per reel: 500 1 reel per bag

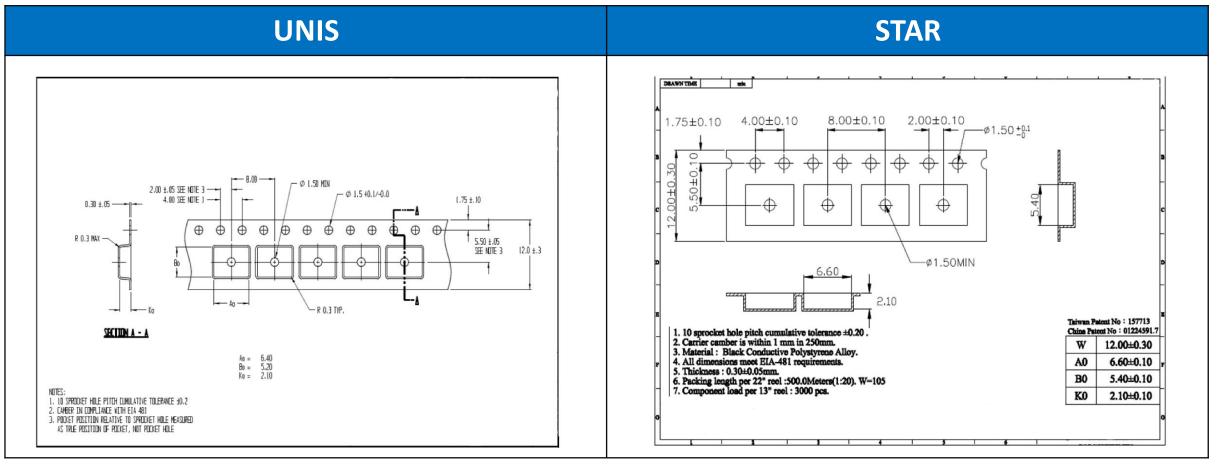


Pre and Post Change Summary – Pin 1 Orientation





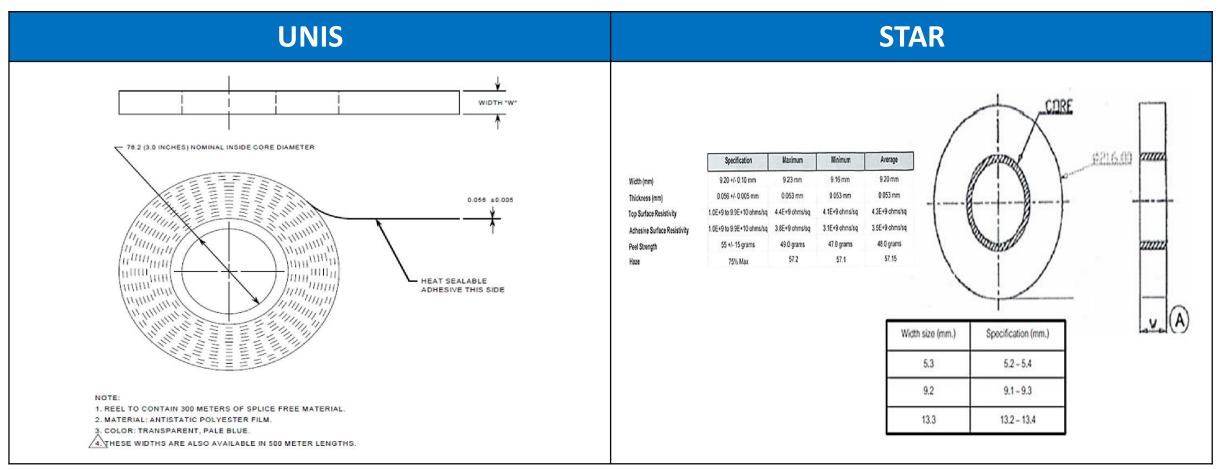
Pre and Post Change Summary - Carrier Tape



Plant	W (mm.) ±0.3	P (mm.) ±0.1 or Specific	A ₀ ±0.1 or Specific	$B_0 \pm 0.1$ or Specific	$K_0 \pm 0.1$ or Specific
UNIS	12.00	8	6.40	5.20	2.10
STAR	12.00	8	6.60	5.40	2.10



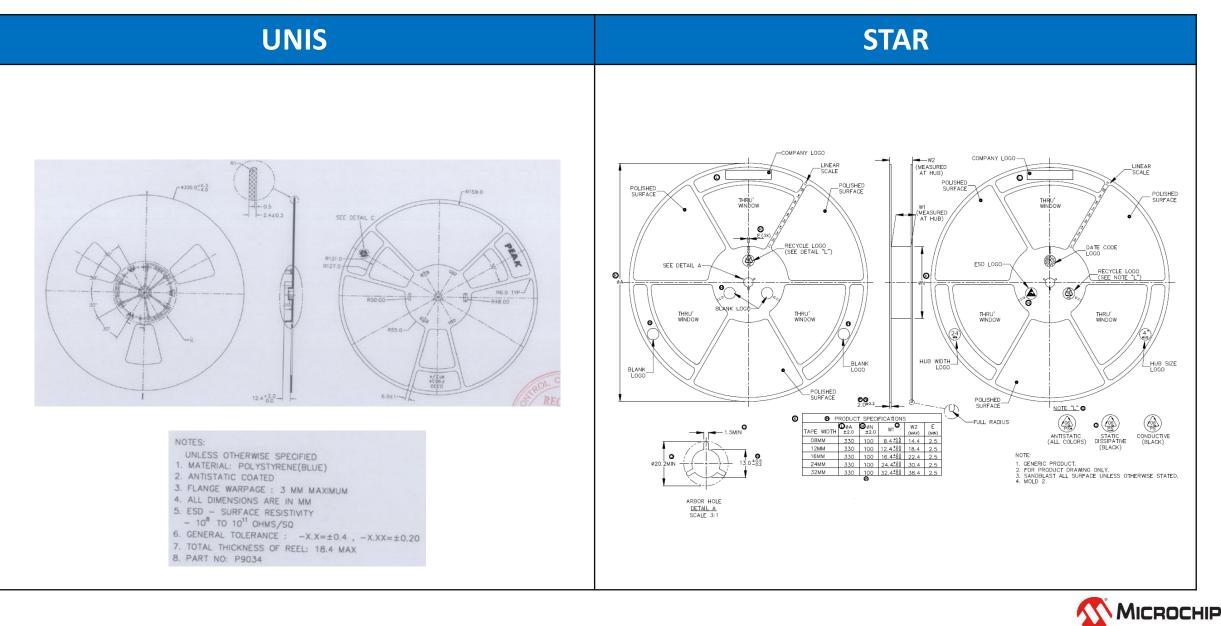
Pre and Post Change Summary - Cover Tape



Plant	Carrier Tape Width	Cover Tape Width	Thickness	Color	Sealing mythology
UNIS	12mm	9.20	0.056	Clear	Heat Sealing
STAR	12mm	9.20	0.050	Clear	Heat Sealing



Pre and Post Change Summary – Plastic Reel



Pre and Post Change Summary – Packing Method

UNIS	STAR
1) Peak 13" Blue Reel - D330-P9034-W12/4 (P/N: 47370032) 2) Microchip Barcode label (P/N: 50320185) 3) 12mm Protective band (P/N: 47560001)	
Front: 1) Static Shield Bag 16"X16" (P/N: 50020046) 2) Microchip Standard Barcode Label (P/N:50320185) at below ESD Logo Back: 1) Seal Antistatic shield bag with adhesive ESD tape.	
1)Quantity/box = 1 reel 2) Use antistatic bubble bag sheet fill in the space if much space inside the box	Packing in Reel 13 Inch Insert Reel in static shelding baj Packing in box Put label
1) Microchip Box = M02-009 Brown-Pizza-13" (P/N: 50080187) 2) Microchip Standard Barcode Label (P/N:50320185) at left side of box opening 3) Red sticker 4) Seal box opening with clear tape at the middle (Note: Remove red sticker with MES ID before ship to customer)	

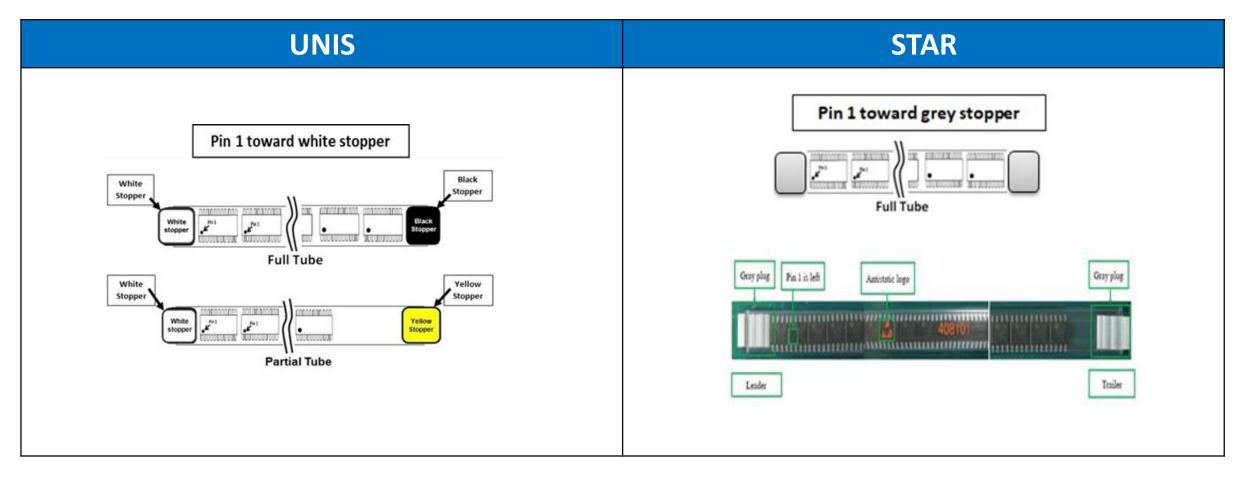


Pre and Post Change Summary – Tube Base Quantity Multiple (BQM) per tube

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

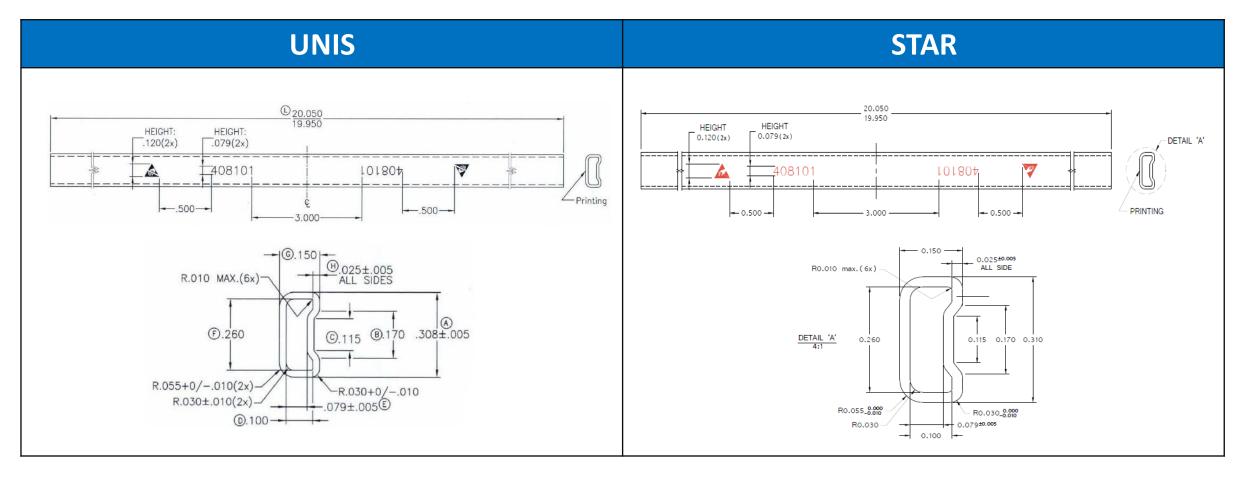


Pre and Post Change Summary – Tube (Pin1 Orientation)





Pre and Post Change Summary – Packing Tube dimension



Plant	Tube 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

UNIS	STAR		
OSOP: Clear Tube (P/N: 408101/47220001) 1) 1 Tube = Max 98 units () Tube = TW SOICN Clear (P/N: 4722001) 3) End plug Full Tube Full Tube Period Tube Period Tube 1) 1 Store (P/N: 4722000) Sign (P/N: 47260090) - Black (P/N: 47260012) Partial Tube • White (P/N: 47260090) - Yellow (FT00063) Note: Pin 1 menghala ke White Pin 1) 1 Bundle = Max 150 Tubes			
2) Bubble bag sheet wrap on both end side of tube and seal with adhesive ESD tape Note: Meratakan tube sebelum balut bubble bag. Note: Meratakan tube sebelum balut bubble bag.			
Front Example Example Starting Front Starting Starting Starting Starting	Packing units in tube Insert Tube in ESD bag Insert bag in inner box		
 (PN: 5000188) (2) I box = Max 1 bag (3) Use anti-static bubble bag sheet to fill the space if much space inside the box (3) Use anti-static bubble bag sheet to fill the space if much space inside the box 			
2) Seal the box opening with 2 x clear tapes 3) Tamper-Proof Seal at the middle of box opening (Note: Remove MES ID with red sticker before ship to customer)			



Pre and Post Change Summary – Inner Box Size

