

Product Change Notification / GBNG-02EIPE100

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14-Jun-2023

Product Category:

Wireless IC

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6067 Final Notice: Qualification of STAR as an additional final test site for MICRF221AYQS and MICRF221AYQS-TR catalog part numbers (CPN) available in 16L QSOP (3.90mm) package.

Affected CPNs:

GBNG-02EIPE100_Affected_CPN_06142023.pdf GBNG-02EIPE100_Affected_CPN_06142023.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 MICRF221AYQS and MICRF221AYQS-TR catalog part numbers (CPN) available in 16L QSOP (3.90mm) package.

Pre and Post Change Summary:

	Pre Change	Post Cl	hange
Final Test Site	Unisem (M) Berhad	Unisem (M) Berhad	Stars

		Perak, Malaysia (UNIS)	Perak, Malaysia (UNIS)	Microelectronics (Thailand) Public Company Limited (STAR)		
Base Quantity	Tape and Reel	2500 units	2500 units	2500 units		
Multiple (BQM)	Tube	98 units	98 units	98 units		
Pin 1	Tape and Reel	Q1	Q1	Q1		
orientation	Tube	Pin 1 toward white stopper	Pin 1 toward white stopper	Pin 1 toward grey stopper		
Carrie	г Таре	Minor dimension change. See pre and post change for comparison.				
Cover	Таре	No dimension change. See pre and post change for comparison.				
Plastic	c Reel	No dimension change. See pre and post change for comparison.				
Plastic Ro	eel Color	Blue Blue		Blue		
Tube Dir	mension	No dimension change. See pre and post change for comparison				
Tube Plug Color		Full Tube: White – Black Partial Tube: White –	Full Tube: White – Black Partial Tube: White	Grey-Grey		
		Yellow	– Yellow			
Packing	Method	See pre and post change for comparison.				

Impacts to Data Sheet:None

Change Impact:None

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

Change Implementation Status:In Progress

Estimated First Ship Date: July 10, 2023 (date code: 2328)

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

Time Table Summary:

		March 2023			>		Jur	ne 20)23			Ju	ly 20	23		
Workweek	0 9	1 0	1 1	1 2	1 3		2 2	2	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1
Initial PCN Issue Date			Х													
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:March 14, 2023: Issued initial notification.

June 14, 2023: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on July 10, 2023.

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

Attachments:

PCN_GBNG-02EIPE100_Qual_Report.pdf PCN_GBNG-02EIPE100_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.

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Affected Catalog Part Numbers (CPN)			
MICRF221AYQS MICRF221AYQS-TR			
ment 22mm qui m			
Date: Tuesday, June 13, 2023			



QUALIFICATION REPORT SUMMARY

PCN #: GBNG-02EIPE100

Date May 31, 2023

Qualification of STAR as an additional final test site for MICRF221AYQS and MICRF221AYQS-TR catalog part numbers (CPN) available in 16L QSOP (3.90mm) package.

Purpose: Qualification of STAR as an additional final test site for MICRF221AYQS and MICRF221AYQS-TR catalog part numbers (CPN) available in 16L QSOP (3.90mm)

package.

CCB No.: 6067

Test Name	Test Conditions	Sample Size	Qty of Lots	Fail/Accept Criteria	Result
Bin and Yield Comparison	Test the same units at existing and destination locations and compare BIN and Yield data.	3000	1	≤0.1%	Passed
Parametric / Characterization Comparison	Characterize the same units at existing and destination locations and compare data.	33	1	≤10%	Passed
Test flow	Final Test Room 100% -> QA Sample Room.	3000	1	1% LTPD	Passed

CCB 6067 Pre and Post Change Summary PCN #: GBNG-02EIPE100



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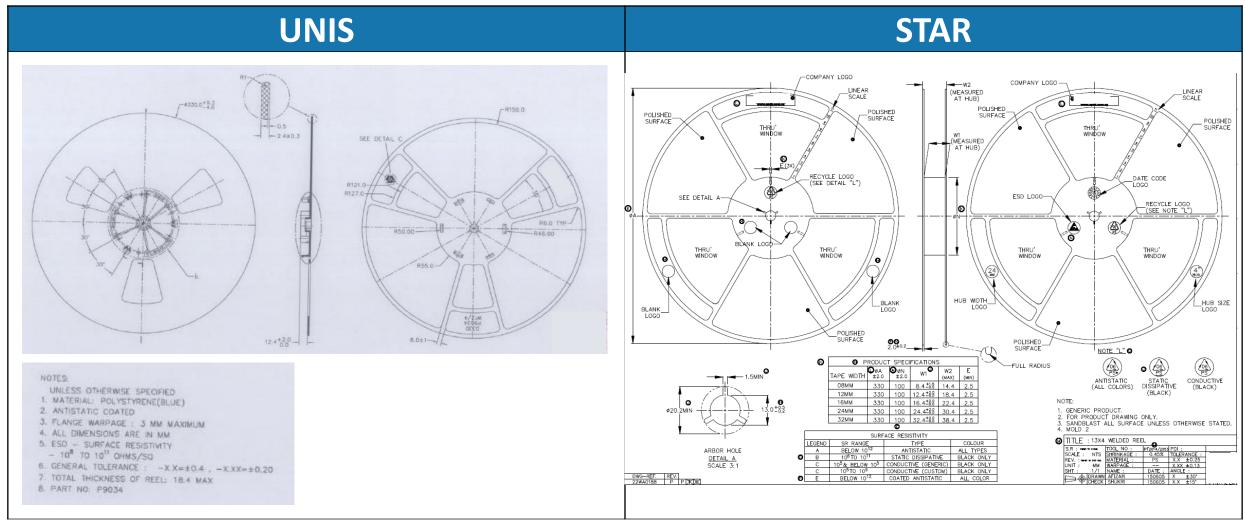


Pre and Post Change – Tape and Reel

	UNIS	STAR
BQM (Base Quantity Multiple)	2500 per reel	2500 per reel
Pin 1 orientation		
	Quadrant 1	Quadrant 1



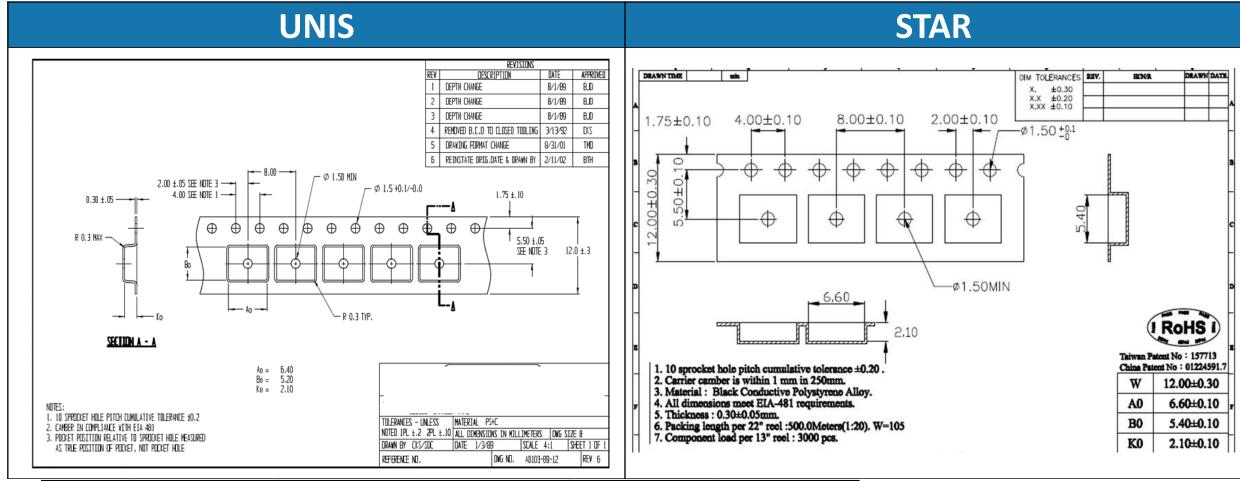
Pre and Post Change – Plastic Reel



No dimension change.



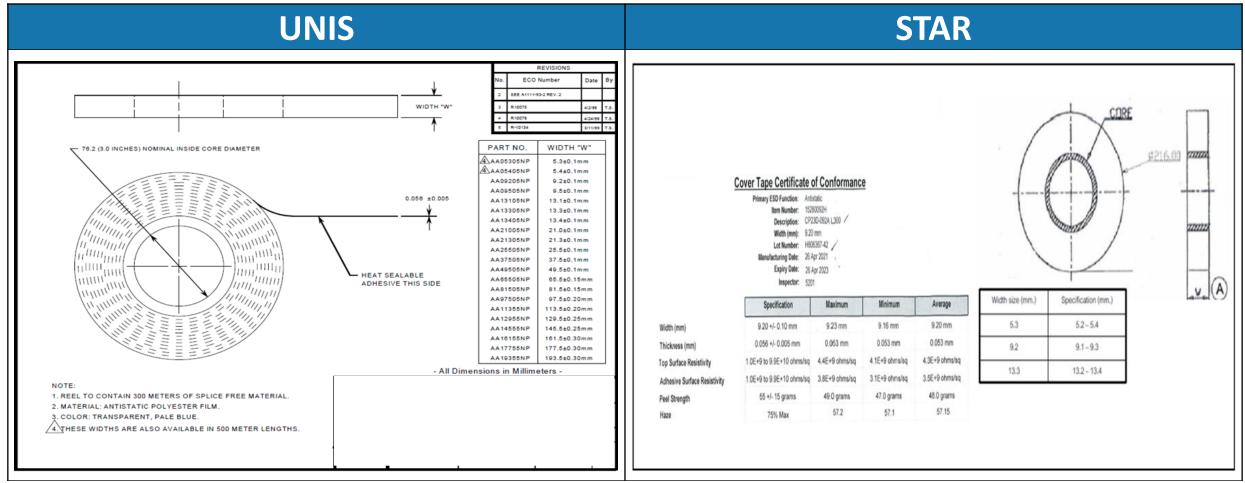
Pre and Post Change – Carrier Tape



Plant	W (mm.) ±0.3 or Specific	P (mm.) ±0.1 or Specific	A ₀ ±0.1 or Specific	B ₀ ±0.1 or Specific	K ₀ ±0.1 or Specific
UNIS	12	8	6.40	5.20	2.10
STAR	12	8	6.60	5.40	2.10



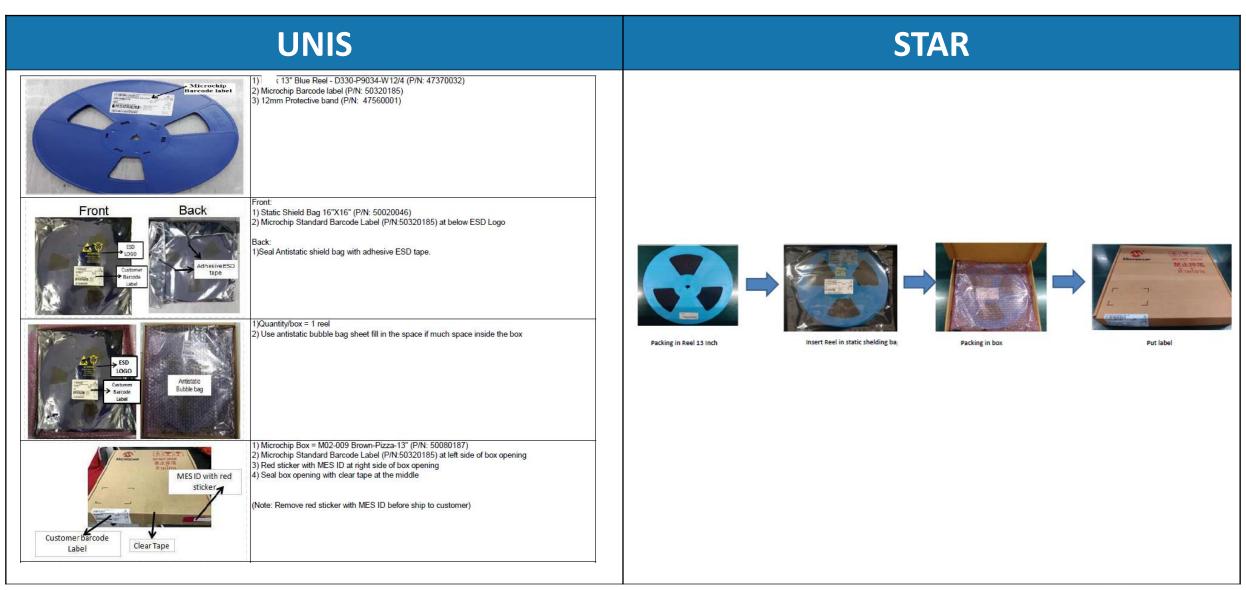
Pre and Post Change – Cover Tape



	Plant	Carrier Tape Width	Cover Tape Width	Thickness	Color	Sealing mythology
	UNIS	16mm	13.3 +/-0.1mm	0.056+/-0.005	Clear	Heat sealing
-	STAR	16mm	13.3 +/-0.2mm	0.050+/-0.005	Clear	Heat sealing



Pre and Post Change – Tape and Reel Packing Method





Pre and Post Change – Tube

	UNIS	STAR
BQM (Base Quantity Multiple)	98 units	98 units
Pin 1 orientation	White stopper White stopper White stopper White stopper White stopper White stopper Partial Tube Partial Tube	Pin 1 toward grey stopper Full Tube
Tube Color	Clear tube	Clear tube
Plug Color	Full Tube: White – Black Partial Tube: White – Yellow	Grey-Grey



Pre and Post Change – Tube Packing Method

