

### Product Change Notification / GBNG-02EIPE100

### Date:

14-Mar-2023

### **Product Category:**

Wireless IC

## PCN Type:

Manufacturing Change

### **Notification Subject:**

CCB 6067 Initial 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\_03142023.pdf GBNG-02EIPE100\_Affected\_CPN\_03142023.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 MICRF221AYQS and MICRF221AYQS-TR catalog part numbers (CPN) available in 16L QSOP (3.90mm) package.

#### Pre and Post Change Summary:

	Pre Change	Post Change	
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	r Tape	Minor dimension change. See pre and post change for comparison.			
Cover	Таре	No dimension change. See pre and post change for comparison.			
Plasti	c Reel	No dimension change.	See pre and post char	nge for comparison.	
Plastic R	eel Color	Blue	Blue	Blue	
Tube Dir	mension	No dimension change.	See pre and post char	nge for comparison.	
Tube Plug Color		Full Tube: White – Black	Full Tube: White – Black	Grey-Grey	
		Partial Tube: White – Yellow	Partial Tube: White – Yellow		
Packing	Method	See pre and	d post change for com	parison.	

#### Impacts to Data Sheet:None

#### Change ImpactNone

**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 Qualification Completion Date: March 2023

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 2023				
Workweek	09	10	11	12	13
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 14, 2023: 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\_GBNG-02EIPE100\_Pre\_and\_Post\_Change\_Summary.pdf PCN\_GBNG-02EIPE100\_Qual\_Plan.doc.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.



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# **Pre and Post Change – Tape and Reel**

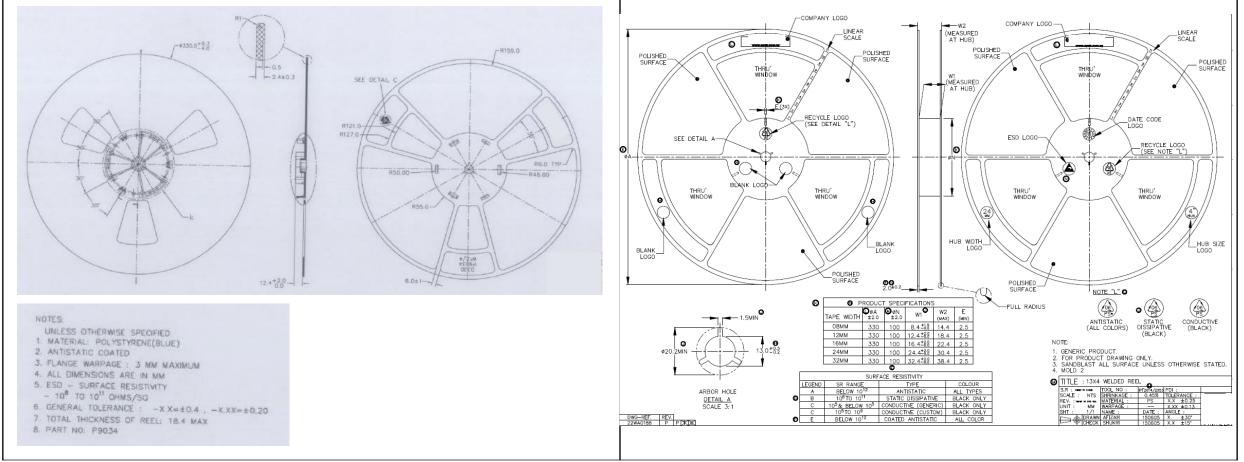
	UNIS	STAR
BQM (Base Quantity Multiple)	2500 per reel	2500 per reel
Pin 1 orientation		
	Quadrant 1	Quadrant 1



# **Pre and Post Change – Plastic Reel**

# UNIS

# **STAR**



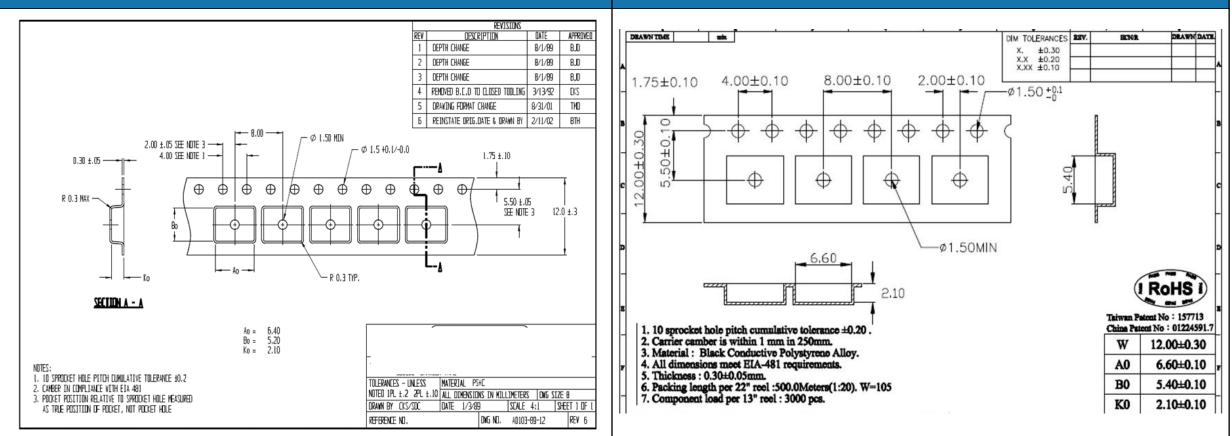
No dimension change.



# **Pre and Post Change – Carrier Tape**

UNIS

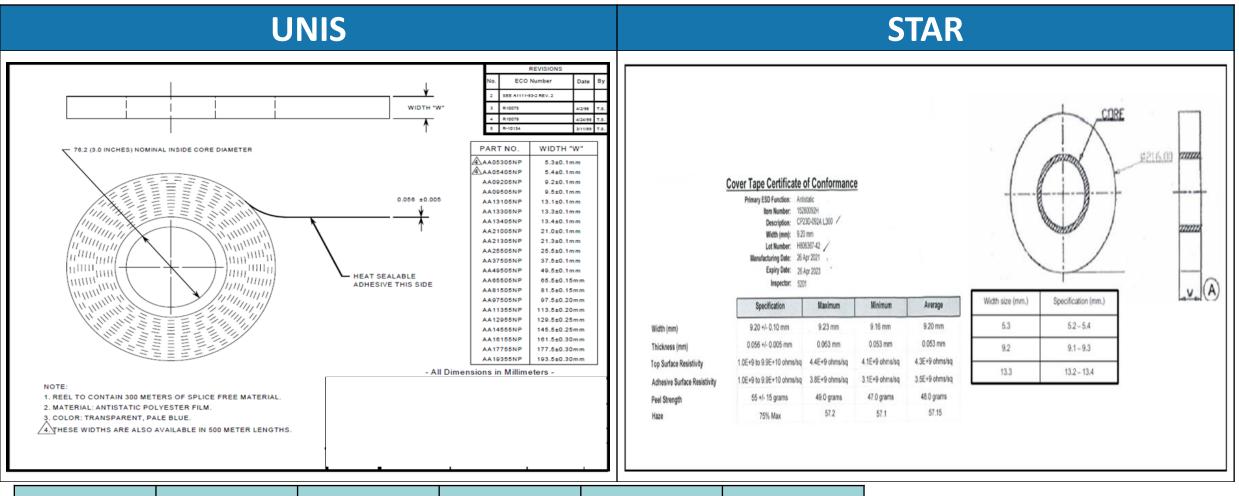
**STAR** 



Plant	W (mm.) ±0.3 or Specific	P (mm.) ±0.1 or Specific	A <sub>0</sub> ±0.1 or Specific	$B_0 \pm 0.1$ or Specific	$K_0 \pm 0.1$ 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
E	STAR	16mm	13.3 +/-0.2mm	0.050+/-0.005	Clear	Heat sealing



# **Pre and Post Change – Tape and Reel Packing Method**

UNIS	STAR
Image: Niccockip Barcode label       13" Blue Reel - D330-P9034-W12/4 (P/N: 47370032)         2) Microckip Barcode label (P/N: 50320185)         3) 12mm Protective band (P/N: 47560001)	
Front Back 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.	
<ul> <li>1)Quantity/box = 1 reel</li> <li>2) Use antistatic bubble bag sheet fill in the space if much space inside the box</li> </ul>	Packing in Reel 13 Inch Insert Reel in static shelding baj Packing in box Put label
Customer barcode Label       Clear Tape	



# **Pre and Post Change – Tube**

	UNIS	STAR
BQM (Base Quantity Multiple)	98 units	98 units
Pin 1 orientation	Pin 1 toward white stopper	Pin 1 toward grey stopper
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**

UNIS	STAR
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.	
<ul> <li>Customer Barcode</li> <li>Front</li> <li>Esb adheelve</li> <li>Back</li> </ul>	
1) Microchip Box = M02-011 Big Tube Inner" Brown (P/N: 50080188) 2) 1 box = Max 1 bag 3) Use anti-static bubble bag sheet to fill the space if much space inside the box	Packing units in tube Insert Tube in ESD bag Insert bag in inner box
1) Microchip Barcode Label (P/N: 50320185) at the right side of 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) (Note: Remove MES ID with red sticker before ship to customer)	



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Affected Catalog Part Numbers (CPN)

MICRF221AYQS MICRF221AYQS-TR



## **QUALIFICATION PLAN SUMMARY**

## PCN #: GBNG-02EIPE100

Date January 19, 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
Bin and Yield Comparison	Test the same units at existing and destination locations and compare BIN and Yield data.	3000	1	≤0.1%
Parametric / Characterization Comparison	Characterize the same units at existing and destination locations and compare data.	33	1	≤10%
Test flow	Final Test Room 100% -> QA Sample Room.	3000	1	1% LTPD