



# Product Change Notification - GBNG-06TAXU283

**Date:**

09 May 2018

**Product Category:**

Bluetooth Module; Wireless Modules

**Affected CPNs:****Notification subject:**

CCB 2795 Final Notice: Qualification of FLCT as a new assembly site for RN41, RN42, RN42N and RN52 Bluetooth module products.

**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:**

Qualification of FLCT as a new assembly site for RN41, RN42, RN42N and RN52 Bluetooth module products.

**Pre Change:**

Assembled at FCOT assembly site

**Post Change:**

Assembled at FLCT assembly site.

**Pre and Post Change Summary:**

	Pre Change	Post Change
<b>Assembly Site</b>	Flaircomm Technology, Inc. (FCOT)	Flaircomm Technology, Inc. (FLCT)
<b>Factory Location</b>	Shenzhen China	Fujian China

**Impacts to Data Sheet:**

None

**Change Impact:**

None

**Reason for Change:**

To improve productivity by qualifying FLCT as a new assembly site.

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**

June 09, 2018 (date code: 1823)

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

**Time Table Summary:**



Workweek	February					à	May 2018				June 2018				
	05	06	07	08	09		18	19	20	21	22	23	24	25	26
Initial PCN Issue Date			X												
Qualification Report Availability							X								
Final PCN Issue Date							X								
Estimated Implementation Date											X				

**Method to Identify Change:**

Traceability code

**Qualification Report:**

Please open the attachments included with this PCN labeled as PCN\_#\_Qual Report.

**Revision History:**

**February 28, 2017:** Issued initial notification.

**May 09, 2018:** Issued final notification. Attached the Qualification Report. Revised the affected parts list. Provided estimated first ship date on June 09, 2018.

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

**Attachment(s):**

[PCN\\_GBNG-06TAXU283\\_Qual Report.pdf](#)

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

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**MICROCHIP**

**QUALIFICATION REPORT SUMMARY**  
**RELIABILITY LABORATORY**

**PCN#: GBNG-06TAXU283**

**Date**  
**April 26, 2018**

**Qualification of FLCT as a new assembly site for RN41, RN42,  
RN42N and RN52 Bluetooth module products.**



## **MICROCHIP PACKAGE QUALIFICATION REPORT**

<b>Purpose</b>	<b>Qualification of FLCT as a new assembly site for RN41, RN42, RN42N and RN52 Bluetooth module products.</b>
<b>CN</b>	ES180354
<b>QUAL ID</b>	Q18045
<b>MP CODE</b>	ZY0017YAXC15
<b>Part No.</b>	RN42-I/RM615
<b>CCB No.</b>	2795
<b><u>Package</u></b>	
<b>Type</b>	35L MODULE
<b>Package size</b>	25.8 x 13.4 x 2.0 mm



**MICROCHIP**  
**PACKAGE QUALIFICATION REPORT**

**Manufacturing Information**

<b>Assembly Lot No.</b>	<b>Date Code</b>
180842C15EFCOT	1809
180942C15EFCOT	1809
181042C15EFCOT	1809

**Result**

Pass     Fail     \_\_\_\_\_

35L Module assembled by Flaircomm Fujian facility pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 3 at 250°C reflow temperature per IPC/JEDEC J-STD-020C standard.

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks
<b><u>Precondition Prior Perform Reliability Tests (At MSL Level 3)</u></b>	<b>Electrical Test :+25°C</b> System: Test at Flaircomm Fujian facility	JESD22- A113	96(0)	96	Pass	Good Devices
	Bake 150°C, 24 hrs System: CHINEE			96		
	30°C/60%RH Moisture Soak 192 hrs. System: TABAI ESPEC Model PR-3SPH			96		
	3x Convection-Reflow 250°C max System: Vitronics Soltec MR1243			96		
	<b>Electrical Test :+25°C</b> System: Test at Flaircomm Fujian facility			0/96		
<b>Temp Cycle</b>	<b>Stress Condition:</b> -40°C to +125°C, 500 Cycles System : TABAI ESPEC TSA-70H	JESD22- A104		231	Pass	77 units / lot
	<b>Electrical Test: +25°C</b> System: Test at Flaircomm Fujian facility			231(0)		
<b>UNBIASED- HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22- A118		231	Pass	77 units / lot
	<b>Electrical Test: +25°C</b> System: Test at Flaircomm Fujian facility			231(0)		
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 175°C, 504 hrs System: SHEL LAB	JESD22- A103		45		

GBNG-06T/ RN42      RN42N and RN52 Bluetooth module products.

Affected Catalog Part Numbers(CPN)

RN41APL-I/RM  
RN41APL-I/RM536  
RN41APL-I/RM545  
RN41APL-I/RM550  
RN41APL-I/RMCF523  
RN41HCI-I/RM  
RN41HID-I/RM  
RN41-I/RM  
RN41-I/RM477  
RN41-I/RM611  
RN41-I/RM615  
RN41-I/RM630  
RN41-I/RMELAN477  
RN41-I/RMEWR616  
RN41-I/RMEWR617  
RN41-I/RMF477  
RN41-I/RMGPS100  
RN41-I/RMVTR427  
RN41NAPL-I/RM  
RN41NAPL-I/RM543  
RN41NAPL-I/RM545  
RN41N-I/RM  
RN41N-I/RM477  
RN41N-I/RM615  
RN41SM-I/RM  
RN41U-I/RM  
RN41XVC-I/RM  
RN41XVU-I/RM  
RN42APL-I/RM  
RN42APL-I/RM536  
RN42APL-I/RM543  
RN42APL-I/RM545  
RN42APL-I/RM550  
RN42APL-I/RMFLY502  
RN42HCI-I/RM  
RN42HID-I/RM  
RN42-I/RM  
RN42-I/RM477  
RN42-I/RM611  
RN42-I/RM615  
RN42-I/RM630  
RN42-I/RMCOS477

RN42-I/RMETI540  
RN42-I/RMEVO519  
RN42-I/RMFLC014  
RN42-I/RMFLC111  
RN42-I/RMGPO100  
RN42-I/RMMGK477  
RN42-I/RMPLX611  
RN42-I/RMSQA477  
RN42NAPL-I/RM  
RN42NAPL-I/RM545  
RN42NAPL-I/RMIWL537  
RN42NHCI-I/RM  
RN42NHID-I/RM  
RN42N-I/RM  
RN42N-I/RM477  
RN42N-I/RMCOS477  
RN42NU-I/RM  
RN42SM-I/RM  
RN42U-I/RM  
RN42XVP-I/RM  
RN42XVU-I/RM  
RN52AAC-I/RM116  
RN52ACV-I/RM116  
RN52APC-I/RM116  
RN52APC-I/RM117  
RN52APT-I/RM116  
RN52CVC-I/RM116  
RN52-I/RM  
RN52-I/RM110  
RN52-I/RM116  
RN52-I/RMEAS116  
RN52SRC-I/RM100  
RN52UDF-I/RM116