

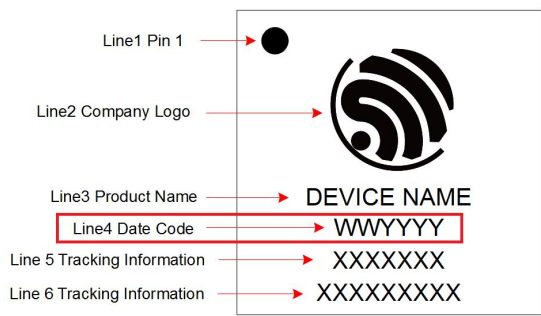
文件编号 Document No.	ESP-00-2-007-03	文件名称 Document Name	产品/工艺变更通知 Product/Process Change Notice
文件版本 Document Version	1.2	保存期限 Retention Period	3 年 3 years

ESP8285 Flash 贴片胶材料变更 ESP8285 Flash Die Attach Film (DAF) Material Change																								
PCN 编号 PCN No.	PCN-03-20180604	提出日期 Issue Date of PCN	2018/6/4																					
产品名称 Product Name	ESP8285	变更日期 Proposed Date of Change	2018/9/2																					
封装类型/尺寸 Package Type/Size	QFN/5x5	首次出货日期 Proposed Date of First Shipment	2018/9/10																					
客户批准/Customer Consent: ☒ 需要批准/Approval Required ☐ 通知, 无需批准/Notification, Approval Not Required																								
变更等级/Change Classification: ☒ 主要变更/Major ☐ 轻微变更/Minor																								
<u>变更原因/Reason for Change:</u> 增加 Flash 贴片胶供应商, 避免单一供应商供货风险。 Add 2 nd source for ESP8285 Flash Die Attach Film (DAF) to avoid the risk brought about by a single supplier.																								
<u>变更描述/Description of Change:</u> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th colspan="2" style="text-align: center;">DAF 型号/DAF Type</th> </tr> <tr> <th style="width: 50%; text-align: center;">变更前/Now</th><th style="width: 50%; text-align: center;">变更后/After</th></tr> </thead> <tbody> <tr> <td style="text-align: center;">EM710</td><td style="text-align: center;">EM710 and LE5000S</td></tr> </tbody> </table>				DAF 型号/DAF Type		变更前/Now	变更后/After	EM710	EM710 and LE5000S															
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变更前/Now	变更后/After																							
EM710	EM710 and LE5000S																							
<u>变更影响/Impact of Change:</u> 变更后产品封装良率比原封装良率提升约 0.2%, 推晶强度均值高约 5.5kg. The assembly yield rate of the products which use the new DAF material is 0.2% higher than that of original material. The average die shear value of the products which use the new DAF material is 5.5 kg more than that of original material. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="3" style="text-align: center;">Flash Die Shear Value (Unit: Kg)</th> </tr> <tr> <th style="width: 33%;">DAF type</th><th style="width: 33%;">EM710 (Now)</th><th style="width: 33%;">LE5000S (After)</th></tr> </thead> <tbody> <tr> <td>Max</td><td style="text-align: center;">6.899</td><td style="text-align: center;">13.261</td></tr> <tr> <td>Min</td><td style="text-align: center;">4.028</td><td style="text-align: center;">9.871</td></tr> <tr> <td>Average</td><td style="text-align: center;">5.295</td><td style="text-align: center;">11.201</td></tr> <tr> <td>Spec</td><td style="text-align: center;">1.019</td><td style="text-align: center;">1.019</td></tr> <tr> <td>Samples Size</td><td style="text-align: center;">10 data</td><td style="text-align: center;">10 data</td></tr> </tbody> </table>				Flash Die Shear Value (Unit: Kg)			DAF type	EM710 (Now)	LE5000S (After)	Max	6.899	13.261	Min	4.028	9.871	Average	5.295	11.201	Spec	1.019	1.019	Samples Size	10 data	10 data
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变更识别方式/Method of Identifying Change:

通过产品本体表面丝印和内盒包装标签纸上显示的生产周别可直接区分变更前后的产品。

The changed products can be identified from the manufacture date code displayed on the chip marking and the label attached on the packaging pizza box.

显示位置/Identification Method	变更前/Before Change	变更后/After Change
芯片本体丝印显示生产周别 Line 4 of the chip marking which describes the date code of the product. 	Line 4: 小于 362018, 表示 2018 年第 36 周之前。 Line 4: The date code number is less than 362018, indicating the date of manufacture for the product is before the 36th week of the year 2018.	Line 4: 大于等于 362018, 表示 2018 年第 36 周及以后。 Line 4: The date code number is greater than or equal to 362018, indicating the date of manufacture for the product is after or in the 36th week of the year 2018.
内盒包装标签显示生产周别 Line 8 and Line 9 on the barcode label attached to the packaging pizza box of the product, which describes the date code of the product. 	Line 8&9: 小于 1836, 表示 2018 年第 36 周之前。 Line 8&9: The date code number is less than 1836, indicating the date of manufacture for the product is before the 36th week of the year 2018.	Line 8&9: 大于等于 1836, 表示 2018 年第 36 周及以后。 Line 8&9: The date code number is greater than or equal to 1836, indicating the date of manufacture for the product is after or in the 36th week of the year 2018.
特别批次 验证新 DAF 时的试产批次。 Identification of the trial run lot of the products which use the new DAF.	标签纸上贴有紫色圆点标识,表面丝印只有一行追溯信息。 There is a purple dot on the barcode label attached to the packaging pizza box of the product. There is only one line of tracking information on chip marking. 	

变更前后产品处理/How to deal with products:

变更对产品性能无特别影响，无需区分，可同时使用。

The change described in this PCN has no impact on the product performance. Customers can use both products for the same purpose.

相关报告/Report(s) Attached:

☒ Related ECN No.: ECN-03-20180502

☒ Reliability Report or Plan: ESP8285 Using LE5000S Package Reliability Report

☒ RoHS/HF Test Report: LE5000S MSDS and SGS Report

客户响应要求**Customer Response Requirements**

客户须按照如下要求给予 Espressif PCN 反馈：

Customers are required to respond to Espressif according to the following guidelines to confirm receipt of the PCN:

主要变更/For Major Changes:

a) 客户须在接收到 PCN 后的 30 天内告知已收到 PCN。

Customers should acknowledge receipt of the PCN within 30 calendar days from the date of receiving the PCN.

b) 如客户未在接收到 PCN 后的 30 天内告知已收到，则视为客户接受变更。

Lack of acknowledgment of the PCN within 30 calendar days constitutes acceptance of the proposed changes.

c) 客户告知确认收到 PCN 后，如未在 90 天内反馈其他要求，则视为客户接受变更。

After customers acknowledge receipt of the PCN, lack of additional response on their part within 90 calendar days constitutes acceptance of the changes.

轻微变更/For Minor Changes:

a) 如客户未在接收到 PCN 后的 7 天内告知已收到，则视为客户接受变更。

Lack of acknowledgement of the PCN within 7 calendar days constitutes acceptance of the changes.

请反馈至 pcn@espressif.com。

Please feedback to pcn@espressif.com.

客户批准/确认信息 Customer Approval/Acknowledgement and Remarks			
客户公司全称: Customer's Company Name:			
PCN 评审结果/PCN Review Result: ☐ 批准/Approval ☐ 不批准/Disapproval ☐ 需要分析/Further Analysis Required			
客户意见/Comment:			
公司代表人姓名 Representative's Name:		公司代表人职责 Representative's Job Title:	
公司代表人签名 Representative's Signature:		日期 Date:	