

文件编号 Document No.	ESP-07-2-007-03	文件名称 Document Name	产品/工艺变更通知 Product/Process Change Notice (PCN)
文件版本 Document Version	1.3	保存期限 Retention Period	5 年 5 years

变更 ESP32 系列高温模组 40MHz 晶振的串联电阻规格 Change the series resistor specification of the 40MHz crystal for ESP32 (-40°C~105°C) modules			
PCN 编号 PCN No.	PCN-2021-023	提出日期 Issue Date of PCN	2021/9/10
变更日期 Proposed Date of Change	2021/9/24	首次出货日期 Proposed Date of First Shipment	2021/9/24
PCN 类型 / PCN Category	<input type="checkbox"/> 客户需要批准/Customer Approval Required <input checked="" type="checkbox"/> 客户通知/Customer Notification		
<b>1. 影响产品名称/Affected Product Name</b> <b>ESP32 (-40°C~105°C) series modules:</b> ESP32-SOLO-1; ESP32-WROOM-32D; ESP32-WROOM-32U; ESP32-WROOM-32E; ESP32-WROOM-32UE; ESP32-MINI-1; ESP32-MINI-1U			
<b>2. 变更原因/Reason for Change</b> 为进一步扩大 ESP32 模组的应用范围，更改 ESP32 (-40°C~105°C) 模组上晶振的串联电阻规格，适应更多复杂高温场景。 The series resistor specification of the ESP32 (-40°C~105°C) module external crystal is changed in order to broaden the module application realm and ensure stable operating under more complicated and high temperature circumstances.			
<b>3. 变更描述/Description of Change</b> 更改段落 1 中受影响模组中外部晶振的串联电阻阻值，具体请参见以下变更对比。 The series resistor value of the module external crystal is going to be changed. You may refer to change comparison chapter followed.			

**4. 变更对比/Change Comparison**

产品名称/Product Name	变更前/Before Change	变更后/After Change
ESP32-SOLO-1; ESP32-WROOM-32D; ESP32-WROOM-32U; ESP32-WROOM-32E; ESP32-WROOM-32UE; ESP32-MINI-1; ESP32-MINI-1U	R2= 100Ω	R2= 0Ω

**5. 变更影响/Impact of Change**
**1) 品质和性能/ Quality & Performance:**

No impact.

**2) 交期/Delivery:**

No impact.

**3) 生产料号/Material Part Numbers (MPN):**

No impact.

**6. 变更前后产品处理/How to Deal with Products**

FIFO.

**7. 相关报告/Report(s) Attached:**

Related ECN No.                      ECN-2021-019

**邮件订阅**
**Espressif Email Notifications**

乐鑫为注册用户提供电子邮件通知服务，用户可通过[乐鑫订阅系统](#)接收技术文档更新、新闻通讯、PCN 等邮件通知。

Espressif sends email notifications of technical documentation changes, along with newsletters, PCNs and other valuable information, to subscribed customers only. If you wish to stay updated on our products and services, please subscribe [here](#).

**客户响应要求**
**Customer Response Requirements**
**需客户批准的变更/ Change Requiring Customer Approval:**

a) 客户须在乐鑫发出 PCN 后的 30 天内告知乐鑫已收到 PCN。如客户未在接收到 PCN 后的 30 天内告知已收到，则视为客户收到变更。

Customers are requested to acknowledge receipt of the PCN within 30 calendar days from the date of issue of the PCN. Customers would be considered as notified 30 calendar days after issue of the PCN if no acknowledgement is received.

b) 自发布 PCN 之日起 90 天内，客户没有任何其他反馈，则表示客户接受该 PCN。

The lack of any additional responses from customers within 90 calendar days from date of issue of the PCN constitutes acceptance of the proposed changes.

**客户通知/ Customer Notification:**

a) 客户需在乐鑫发出 PCN 后 14 天内通知乐鑫收到该 PCN。如客户未在接收到 PCN 14 日反馈乐鑫，则视为客户确认该 PCN。

Customers are requested to acknowledge receipt of the PCN within 14 calendar days from the date of issue of the PCN. Customers would be considered as having acknowledged the PCN if no response is received after 14 calendar days.

请反馈至 [pcn@espressif.com](mailto:pcn@espressif.com)。

Please send feedback to [pcn@espressif.com](mailto: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/确认 Accepted/Acknowledged

不批准/Rejected

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: