



# Process/Product Change Notification (PCN)

## General PCN Information

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| PCN # 22-0159                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | QPF5010, QPF5005, QPF5002 mold compound change                                                                                                                                                               | PCN Date                              | Dec 9, 2022           |
| Initiator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Paul Prudhomme                                                                                                                                                                                               | Date                                  | Dec 6, 2022           |
| Post to PCN Alert?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                          | E-mail                                | PCNresponse@qorvo.com |
| Type of Change:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor                                                                                                                                     | <input type="checkbox"/> Obsolescence |                       |
| Change Affects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Form <input type="checkbox"/> Fit <input type="checkbox"/> Function <input type="checkbox"/> Reliability <input type="checkbox"/> N/A<br><input type="checkbox"/> Other: |                                       |                       |
| Description of Change:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mold compound change. Package base thickness change.                                                                                                                                                         |                                       |                       |
| Reason for Change:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US Government import prohibition on mold compound. Package base thickness change.                                                                                                                            |                                       |                       |
| Detail of potential impact to customer:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | None anticipated                                                                                                                                                                                             |                                       |                       |
| Affected Products:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | QPF5002, QPF5005, QPF5010                                                                                                                                                                                    |                                       |                       |
| Comments and/or Supporting Data:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                              |                                       |                       |
| The following only applies to Major and Minor Changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                              |                                       |                       |
| Affected Product Specification (if applicable): Package thickness increases by 0.09mm, from 1.435mm typical to 1.525mm typical. No change to RF specifications. Moisture sensitivity level (MSL) specification may improve from 5a. Datasheet will be revised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                              |                                       |                       |
| Qualification Plan or Data (if applicable): Available upon request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                              |                                       |                       |
| Customer Samples Available (if applicable): Apr 10, 2023: sample OPN: QPF5010S2A, QPF5005S2A, QPF5002S2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                              |                                       |                       |
| Qualification Results Available (if applicable): May 19, 2023:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                              |                                       |                       |
| Planned First Ship Date: May 19, 2023:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                              |                                       |                       |
| Identification of Changed Product (if applicable): Shipments with new mold compound are expected to start around April 2023. Product date code is YYWW; 2305 and later indicates revised mold compound.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                              |                                       |                       |
| <b>Customer Acknowledgement/Responses:</b> All Customer responses must be sent via e-mail to PCNResponse@qorvo.com. When replying, please include the PCN number in subject line. Customers should acknowledge receipt of the PCN within 30 days of delivery of the PCN. Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change. Any concerns, sample order response, or a request for further information must be provided within the acknowledgement period. If additional time is required to determine if samples or additional data is required, the customer must submit this request along with the acknowledgement response and state when they expect to complete their review. After acknowledgement, lack of additional response prior to the planned first ship date constitutes acceptance of the change. If the customer requires additional time to perform sample testing, beyond the stated planned first ship date, an extension must be negotiated with Qorvo. Acceptance of the PCN prior to the planned first ship date is considered approval to begin shipments early. Any contractual PCN agreements made with Qorvo supersede these requirements. |                                                                                                                                                                                                              |                                       |                       |
| <p style="text-align: center;">Qorvo<br/>7628 Thorndike Road<br/>Greensboro, NC 27409-9421<br/>Customer Service Phone: 336.678.5570<br/>E-mail (PCN Related Correspondence Only): <a href="mailto:PCNResponse@qorvo.com">PCNResponse@qorvo.com</a><br/><a href="http://www.qorvo.com">http://www.qorvo.com</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                              |                                       |                       |