

## PCN-249413

### Product Change Notice

Issue Date: 20-July-2022

#### **Change Description:**

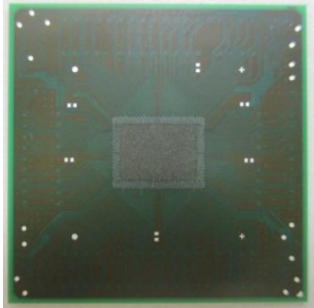
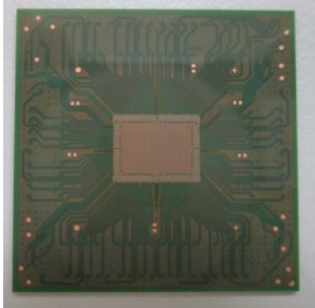
Qualifying new substrate supplier LGIT to mitigate substrate shortage issue

#### **Parts Affected:**

PEX8732-CA80BC G  
PEX8733-CA80BC G  
PEX8747-CA80BC G  
PEX8748-CA80BC G  
PEX8749-CA80BC G  
PEX8712-CA80BC G  
PEX8713-CA80BC G  
PEX8716-CA80BC G  
PEX8717-CA80BC G  
PEX8723-CA80BC G  
PEX8724-CA80BC G  
PEX8725-CA80BC G

#### **Description and Extent of Change:**

Qualifying LGIT substrate to mitigate substrate supply shortage risk. The substrate design and its performance remains unchanged. Color tone of finished good may be varied between current and new LGIT substrate.

	Current Substrate	New LGIT Substrate
<b>Substrate Core:</b>	E679FGR (400um)	HL832NS (400um)
<b>Substrate Build Up:</b>	ABF-GX13	GHPL-830NS
<b>Substrate Solder Mask:</b>	AUS703	PFR-800 SR-1
<b>Substrate Finish:</b>	Bump: Solder BGA: Solder	Bump: Organic Solderability Preservatives (OSP) BGA: Organic Solderability Preservatives (OSP)
<b>Substrate solder mask color:</b>		

#### **Reasons for Change:**

To mitigate substrate supply shortage the industry is experiencing & reducing risk to supply continuity.

**Effect of Change on Fit, Form, Function, Quality, or Reliability:**

The device specification will remain the same, which will ensure product electrical performance remains the same. Appropriate electrical characterization and reliability qualification will be performed on representative products to ensure normal parametric distribution, consistent electrical performance, and reliability.

**Effective Date of Change:**

Product shipments using this change will begin after 01-Dec-2022. Timing of shipment of the changed part will vary by part number depending on qualification completion, customer demand, and inventory levels.

**Qualification Data:**

Qualification data will be available after 1-Oct-2022

<b>Test vehicle:</b>	<b>Draco PEX8747</b>
<b>Package type:</b>	FCBGA
<b>Package size:</b>	27x27 mm <sup>2</sup>
<b>Substrate Supplier:</b>	LGIT
<b>Core material:</b>	HL832NS
<b>Build-up material:</b>	GHPL-830NS
<b>Solder Mask:</b>	PFR-800 SR-1
<b>Substrate finish</b>	OSP
<b>Preconditioning</b> (MSL 4/ 245 °C prior to TC and Unbiased HAST)	50 x 3 lots
<b>Unbiased HAST</b> 130 °C/85% RH, 96 hours	25 x 3 lots
<b>Temp Cycle</b> -55 to +125 °C, 700 cycles	25 x 3 lots
<b>High Temp Storage</b> 150 °C, 1000 hours	25 x 3 lots

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please acknowledge the receipt of the notice within 30 days of delivery. Lack of acknowledgement within 30 days constitutes acceptance of the change per JEDEC J-STD-046.