

## Product Change Notice

**Issue Date:** 30-NOVEMBER-2021

**Change Description:**

Add alternative IC's coating supplier.

**Parts Affected:**

APDS-9007-020

**Description and Extent of Change:**

Adding alternative (second source) of coating house supplier.

**Reasons for Change:**

To ensure that there is no supply chain disruption due to the increase lead time from supplier.

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

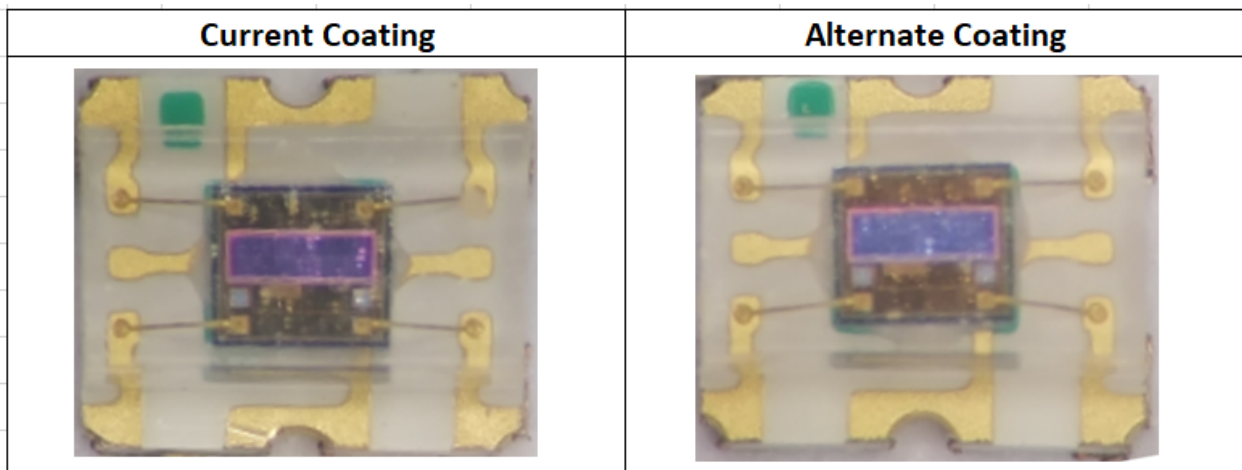
The device specification will remain the same, which will ensure product electrical performance remains the same. Appropriate electrical characterization and reliability qualification has been performed on representative products to ensure normal parametric distribution, consistent electrical performance,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

**Effective Date of Change:**

Product shipments using this change will begin after 28/02/2022. Timing of shipment of the changed part will vary by part number depending on qualification completion, customer demand, and inventory levels.

**Qualification Data:**

The optical photos below shown the comparison between devices with current coating compared to the new alternative coating.





The reliability data of the new alternative coating shown as below, with no failure found.

Test Name	Test Condition	Duration	Unit Tested	Results
Pre-condition	1) Soak samples for 192 hrs at 30°C / 60%RH (for MSL level 3)	192 hrs	160	0 failure
	2) 3x convection reflow at 260°C			
Temperature Cycle	-40°C to 100°C, 15 minutes dwell, 5 minutes transfer	200 cycles	80	0 failure
High Temp Storage	125°C for 500 hrs	500 hrs	80	0 failure

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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.