



PCN: V15-002-00475504-OA

Product Change Notice

Issue Date: 23 October 2015

Change Type/Parts Affected:

- Change #1: Add an alternative PCB supplier
- Change #2: Remove individual pizza box for individual reel
- Change #3: Reel color will not be restricted to blue only
- Change #4: Increase quantity per reel from 2.5K units to 5.0K units

Part Number	Change #1	Change #2	Change #3	Change #4
APDS-9130	√	√	√	√
APDS-9190	√	√	√	√
APDS-9250		√	√	√
APDS-9251		√	√	√
APDS-9309		√	√	√
APDS-9900	√	√	√	√
APDS-9901	√	√	√	√
APDS-9910-001	√	√	√	√
APDS-9920		√	√	√
APDS-9921		√	√	√
APDS-9930	√	√	√	√
APDS-9930-001	√	√	√	√
APDS-9930-002	√	√	√	√
APDS-9933	√	√	√	√
APDS-9950		√	√	√
APDS-9960		√	√	√
APDS-9963		√	√	√
APDS-9970		√	√	√
QPDS-T900	√	√	√	√
QPDS-T903	√	√	√	√
QPDS-T905	√	√	√	√
QPDS-T907	√	√	√	√
QPDS-T930	√	√	√	√
QPDS-T932	√	√	√	√
QPDS-T935	√	√	√	√
QPDS-T962		√	√	√
APDS-9130-140	√	√	√	
APDS-9130-200	√	√	√	
APDS-9930-100R	√	√	√	
APDS-9930-130	√	√	√	
APDS-9930-140	√	√	√	
APDS-9930-160	√	√	√	
APDS-9930-200	√	√	√	
APDS-9910-190	√	√	√	
APDS-9910-230	√	√	√	

Description and Extent of Change:

1. Add an alternative PCB supplier with same PCB layout and PCB material.
2. Remove individual pizza box for individual reel.
3. Reel color will not be restricted to blue only.
4. Increase quantity per reel from 2.5K units to 5.0K units.

Reasons for Change:

Change #1 qualifies an alternate PCB supplier to provide assurance of raw material supply. It minimizes the risk of single supplier dependency.

Change #2-4 support green initiatives.

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

The product specifications will remain the same. Reliability qualification has been performed on representative products to ensure normal parametric distribution, consistent electrical performance, and reliability.

Effective Date of Change:

Both CMs will be implementing the change effective from date code D/C 1601 onwards. Timing of shipment of the changed part will vary by part number depending on customer demand and inventory levels.

Change #1: Add an alternative PCB supplier:

The photos below show the exterior package of the current devices produced, and compared to the new changed part.

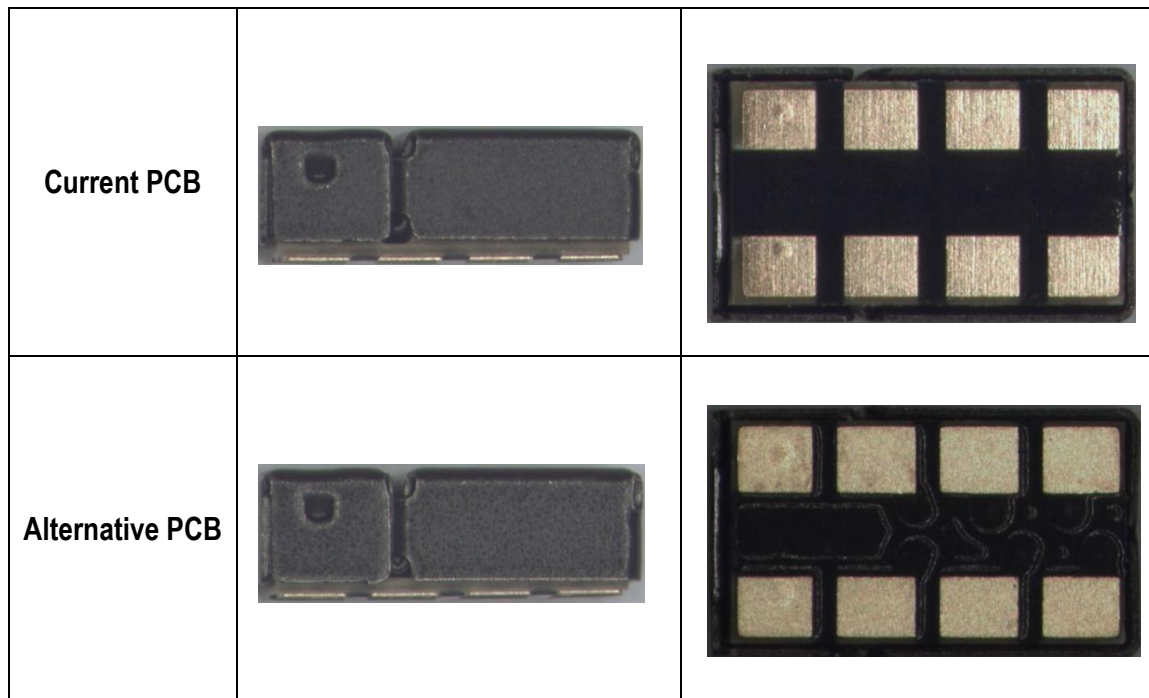


Figure 1: Comparison of the current and new PCBs.

The change does not affect the size and dimension of the package. There is no change to the datasheet.

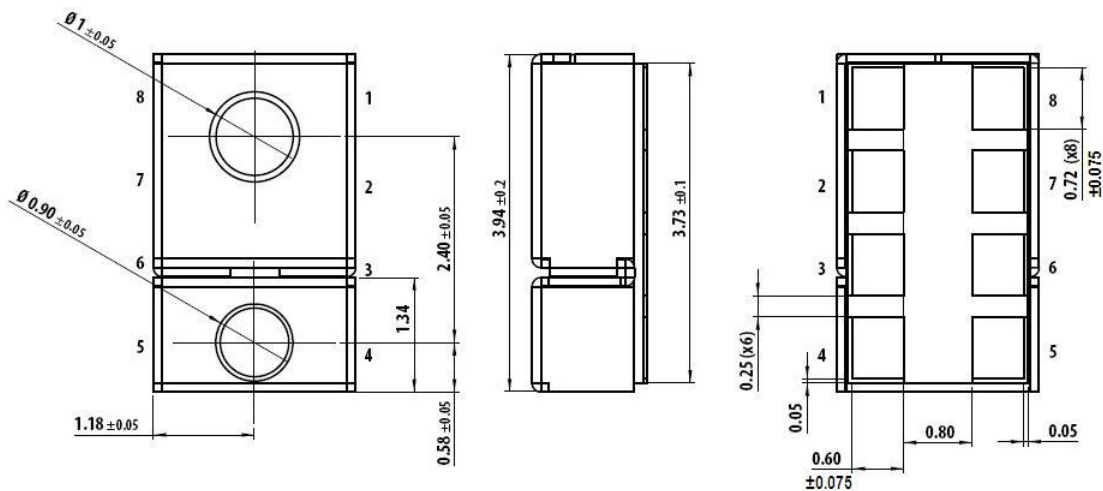


Figure 2: Physical dimension of the package (in mm). An extract from product datasheet.

Reliability data for alternative PCB is shown below.

Stress Test	Test Conditions	Sample Size	Release Points	Results
Precondition	<ol style="list-style-type: none"> Bake sample for 4hrs at 100°C. Soak sample for 192 hrs at 30°C/60%RH 3 x reflow at Jedec standard lead-free profile 5 T/C at -40/100°C. 	497 pcs	MSL 3	Passed
High Temperature Operating Life	Ta=85°C, Vcc=3.6V, Vled =5V	77 * 3 lots	1000 hrs	Passed
Low Temperature Operating Life	Ta= -40°C, Vcc=3.6V, Vled =5V	56 pcs	1000 hrs	Passed
Wet High Temperature Operating Life	85°C/ 85%RH, Vcc=3.6V, Vled =5V	56 pcs	1000 hrs	Passed
High Temperature Storage Life	125 °C	77 pcs	1000hrs	Passed
Temperature Cycling	-40 °C to 100 °C	77 pcs	500 cycles	Passed

Change #2: Remove individual pizza box for individual reel:

The photos below show new changed reel packing without pizza box.






<p>Existing Packing With Pizza Box</p>			
<p>New Packing Without Pizza Box</p>			

Figure 3: Comparison of existing reel packing with pizza box and new reel packing without pizza box.

Change #3: Reel color will not be restricted to blue only:


<p>Existing blue plastic reel</p>	
<p>New plastic reel will not be restricted to blue color</p>	<p>Any color</p>

Figure 4: New reel color will not be restricted to blue only.

Change #4: Increase quantity per reel from 2.5K units to 5.0K units:

The photos below show the existing device packing in one reel with 2.5K units, and compared to the new packing in one reel with 5K units. The reel dimension remains the same.

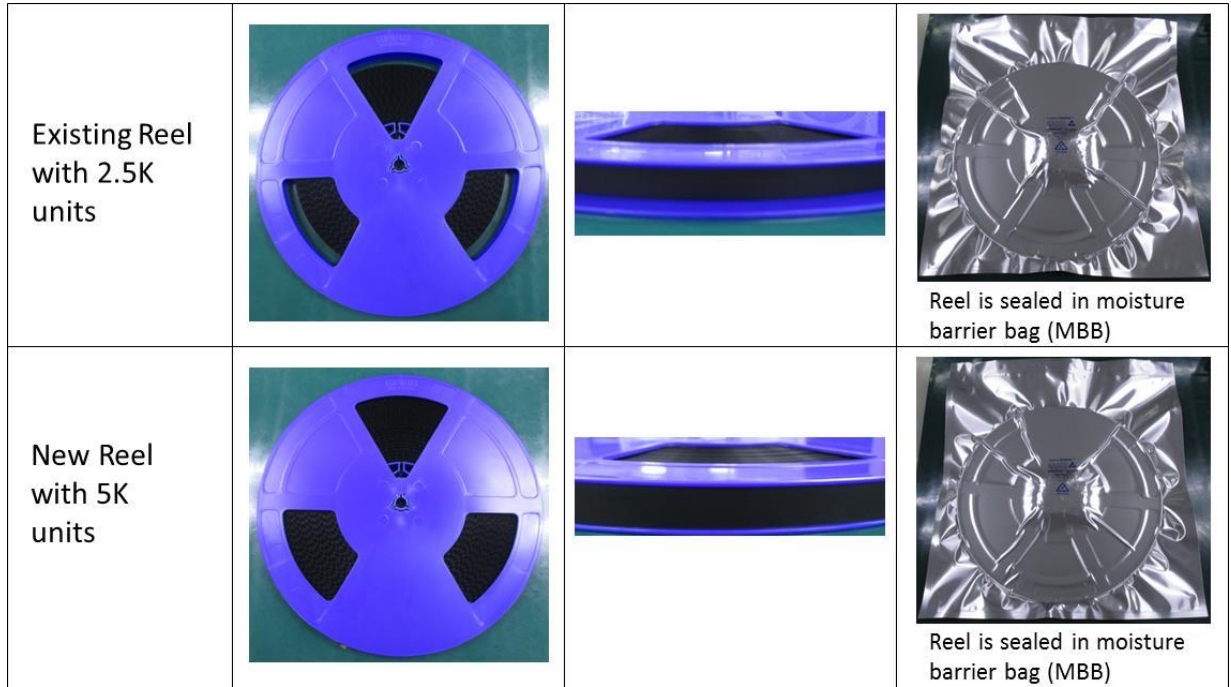


Figure 5: Comparison of quantity per reel between 2.5K units and 5.0K units

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer Notification, A-5962-6052-80.

Please contact your Avago Technologies field sales engineer or Contact Center (<http://www.avagotech.com/contact/>) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.