PCN: V17-006-476103-OA

Product Change Notice

Issue Date: 26th Dec 2017

Change Type:

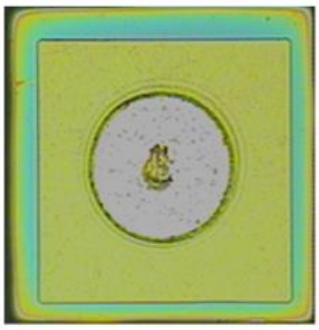
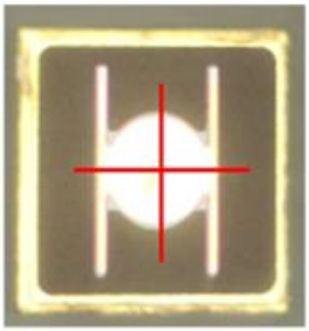
IR-LED change change for multi-turn absolute encoder products

Parts Affected:

Part Number	Product Description
AEAT-84AD-LBSC0	12 bit multi turn high temp encoder with solid shaft
AEAT-84AD-LBSF0	14 bit multi turn high temp encoder with solid shaft

Description and Extent of Change:

IR-LED change to equivalent alternate supplier

	CURRENT IR-LED	NEW IR-LED
		
Material	AlGaAs	AlGaAs
Color	Infrared	Infrared
Package Size	406um x 406um	240um x 240um
Wavelength	850nm	850nm

Due to the higher power with new IR-LED, network resistor value on IR-LED PCB is changed from 70 Ohm to 150 Ohm to generate similar current consumption.

Reliability Test Result : Pass

No	Stress / Test	Standard Reference	Test Condition	Test Point	Result
1	Change of Temperature TMCL	IEC68-2-14N	-40°C/125°C D/T : 30/55/30min	200 cycles	Pass
2	Dry Heat Test (Biased) HTOL	IEC68-2-2	125°C Vcc = 5.5V	1000 hours	Pass
3	Damp Heat Steady State WHTSL	IEC68-2-3	85°C/85%RH Vcc = 5.5V	1000 hours	Pass
4	Cold Test LTSL	IEC68-2-1	-40°C Vcc = 5.5V	1000 hours	Pass
5	Electrostatic Discharge Immunity Test	IEC61000- 4-2	10 pulses each at negative and positive	± 2kV	Pass

Reason for Change

Change to alternate equivalent IR-LED for longer term assurance of supply.

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

There is no impact to product Form, Fit, Function and performance at the product level. Proper quality and reliability test have been assessed for volume production.

Effective Date of Change:

Product shipment using the new IR-LED will commence on or around July 2018. Customer to review and evaluate for the change acceptance.

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer Notification.

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