

Product Change Notice

Issue Date: July 7, 2009

Change Type:

Major

Parts Affected: Please see Appendix 1 for list of Part Numbers

1G LC MMSFP Fiber Optics Tranceivers, ROHS
1G LC SMSFP Fiber Optics Tranceivers, ROHS
SONET OC-3 Fiber Optics Tranceivers, ROHS
4/2/1G LC MMSFP Fiber Optics Tranceivers, ROHS
4/2/1G LC SMSFP Fiber Optics Tranceivers, ROHS
4/2/1G LC MMSFF Fiber Optics Tranceivers, ROHS

Description and Extent of Change:

Foundry supplier transferring IC wafer fabrication site to a new location for ICs used on the above products.

Reason for Change:

Provide assurance of manufacturing supply.

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

There will be no change to the form, fit, function, quality and reliability of the devices.

Effective Date of Change:

Product shipments using this change will begin on or after October 5, 2009 (WW0941). Timing of the shipment will vary by part number depending on customer demand and inventory levels.

Recommended Actions to be Taken by Customer:

- 1) Please return any response as soon as possible, but not to exceed 30 days.
- 2) Sample requests must specify the PCN # stated above and shall be placed by your Avago Technologies Field Sales Representative through the Avago Technologies FOMFGS ordering system.

Qualification Data:

Table 1 AFBR-57R5AEZ (4/2/1G MMSFP RoHS) Transceiver Qualification Preconditioning Test**

Leg	Test	Reference	Condition	Sample Size	Test Points & Results (Fail/Pass)
1	Temperature Cycling	MIL-STD-883 Method 1010	Ta= -40°C to +100°C, 20 cycles	All, except samples from MS/MV and MVB	0/All Post TC @25°C

**Note: For stress legs that are subjected to Pre-conditioning, the reference 0 hour will be at the test point after completion of Pre-conditioning. Conditions for test at this test point are at 25°C at nominal supply voltage.

Table 2 AFBR-57R5AEZ (4/2/1G MMSFP RoHS) Transceiver Qualification Test Plan

Leg	Test	Reference	Condition	Sample Size	Test Points & Results (Fail/Pass)
1	High Temperature Operating Life (HTOL)	Section 5.18 (GR-468-CORE)	Ta = +85°C, rated power 1000hours for release 2000hours for info	11	0/11 168, 500, 1000 @25°C
2	Biased Damp Heat	MIL-STD-102 Method 103	Ta = +85°C, RH = 85%, Unbiased, 1000hours for release	11	0/11 168, 500, 1000 @25°C
3	High Temperature Storage	GR-468-CORE	Ta = 100°C, unbiased 1000hours release point	11	0/11 168, 500, 1000 @25°C
4	Low Temperature Storage	GR-468-CORE	Ta = -40°C, 72hours for release, 500hours for info	11	0/11 72, 500 @25°C
5	Temperature Cycling	MIL-STD-883 Method 1010	Ta = -40°C to +100°C, 15min dwell, 5min transfer 1000 cycles for release	11	0/11 100, 250, 500, 1000 cycles @25°C,
6	Biased Cyclic Moisture Resistance (BCMR)	MIL-STD-883 Method 1004	Ta= -10°C to +65°C, biased Power on/off @ 30 min RH= 95%, 20 cycles for release	11	0/11 20 cycles @25°C
7a	Mechanical Shock	MIL-STD-883 Method 2002B	1500g, 0.5ms, 5 shocks/axis, 6 axis	11	0/11 Post Shock test @25°C
7b	Mechanical Vibration	MIL-STD-883 Method 2007A	20g, 20-2000Hz, 4 min/cycle, 4 cycles/axis, 3 axis		0/11 Post Vibration test @25°C
8	HBM (ESD)	MIL-STD-883 Method 3015	2000V	6	0/6 @2000V
9	MM (ESD)	JEDEC A115A	200V	6	0/6 @200V
10	Mass Verification Build	N/A	20 temperature cycles and 48 hours HTOL stress	100	0/100

Appendix A

1G LC MMSFP Fiber Optics Transceivers, ROHS

AFBR-5701ALZ
AFBR-5701APZ
AFBR-5701LZ
AFBR-5701PZ
AFBR-5705ALZ
AFBR-5705APZ
AFBR-5705LZ
AFBR-5705PZ
AFBR-5705PZ-xxx
AFBR-5710ALZ
AFBR-5710APZ
AFBR-5710LZ
AFBR-5710PZ
AFBR-5710PZ-xxx
AFBR-5710SZ-xxx
AFBR-5715ALZ
AFBR-5715APZ
AFBR-5715APZ-xxx
AFBR-5715LZ
AFBR-5715PZ
AFBR-5715PZ-xxx
AFBR-5715SZ-xxx

1G LC SMSFP Fiber Optics Transceivers, ROHS

AFCT-5701ALZ
AFCT-5701APZ
AFCT-5701LZ
AFCT-5701PZ
AFCT-5705ALZ
AFCT-5705APZ
AFCT-5705LZ
AFCT-5705PZ
AFCT-5705PZ-xxx
AFCT-5710ALZ
AFCT-5710APZ
AFCT-5710APZ-xxx
AFCT-5710LZ
AFCT-5710PZ
AFCT-5710PZ-xxx
AFCT-5715ALZ
AFCT-5715APZ
AFCT-5715APZ-xxx
AFCT-5715LZ
AFCT-5715PZ
AFCT-5715PZ-xxx
AFCT-5719PZ

SONET OC-3 Fiber Optics Transceivers, ROHS

AFCT-5750ALZ
AFCT-5750APZ
AFCT-5750ATLZ
AFCT-5750ATPZ
AFCT-5750LZ
AFCT-5750PZ
AFCT-5750TLZ
AFCT-5750TPZ
AFCT-5750TPZ-xxx

AFCT-5755ALZ
AFCT-5755APZ
AFCT-5755ATLZ
AFCT-5755ATPZ
AFCT-5755LZ
AFCT-5755PZ
AFCT-5755TLZ
AFCT-5755TPZ
AFCT-5755TPZ-xxx
AFCT-5760ALZ
AFCT-5760ANLZ
AFCT-5760ANPZ
AFCT-5760APZ
AFCT-5760ATLZ
AFCT-5760ATPZ
AFCT-5760LZ
AFCT-5760NLZ
AFCT-5760NPZ
AFCT-5760PZ
AFCT-5760TLZ
AFCT-5760TPZ
AFCT-5760TPZ-xxx
AFCT-5765ALZ
AFCT-5765ANLZ
AFCT-5765ANPZ
AFCT-5765APZ
AFCT-5765ATLZ
AFCT-5765ATPZ
AFCT-5765LZ
AFCT-5765NLZ
AFCT-5765NPZ
AFCT-5765NPZ-xxx
AFCT-5765PZ
AFCT-5765PZ-xxx
AFCT-5765TLZ
AFCT-5765TPZ
AFCT-5765TPZ-xxx
AFCT-5765TSZ-xxx
AFCT-5769TPZ

4/2/1G LC MMSFP Fiber Optics Transceivers, ROHS

AFBR-57J5APZ
AFBR-57L5APZ
AFBR-57M5APZ
AFBR-57M5APZ-xxx
AFBR-57R5AEZ
AFBR-57R5APZ
AFBR-57R5APZ-xxx
AFBR-57R5AQZ
AFBR-57R6AEZ
AFBR-57R6APZ
AFBR-57R6APZ-xxx
SFBR-5726APZ
SFBR-5728APZ
SFBR-5745APZ
SFBR-5797APZ

4/2/1G LC MMSFP Fiber Optics Transceivers, ROHS

SFBR-5901LZ
SFBR-5902LZ
SFBR-5903LZ
AFBR-59M5LZ
AFBR-59R5LZ
SFBR-5913LZ
SFBR-5900LZ
AFBR-5921ALZ
SFBR-59R5LZ
AFBR-59R5ALZ

4/2/1G LC SMSFP Fiber Optics Transceivers, ROHS

AFCT-57J5APZ
AFCT-57J5APZ-xxx
AFCT-57J5ATPZ
AFCT-57J5ATPZ-xxx
AFCT-57M5ATPZ
AFCT-57R5APZ
AFCT-57R5APZ-xxx
AFCT-57R5ATPZ
AFCT-57R5ATPZ-xx
AFCT-57R5ATPZ-xxx

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.
