

Product Change Notice

Issue Date: 19 December 2008

Change Type:

Major

Parts Affected: Please see Appendix 1 for list of part numbers

1G LC MMSFP Fiber Optics Transceivers, RoHS
1G LC SMSFP Fiber Optics Transceivers, RoHS
4/2/1G LC MMSFP Fiber Optics Transceivers, RoHS
4/2/1G LC SMSFP Fiber Optics Transceivers, RoHS
4/2/1G LC MMSFF Fiber Optics Transceivers, RoHS

Description and Extent of Change:

Foundry supplier transferring IC wafer fabrication site to an Avago approved 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 6th April, 2009. Timing of shipment will vary by part number depending on qualification completion, 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-57R5APZ (4/2/1G MMSEFP 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-57R5APZ (4/2/1G MMSEFP 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

Appendix 1: List of Part Numbers

1G LC MMSFP Fiber Optics Transceivers, RoHS

AFBR-5715PZ-JU1
AFBR-5710PZ-FD
AFBR-5710PZ-AL1
AFBR-5710APZ-AL1
AFBR-5710APZ
AFBR-5701PZ
AFBR-5715PZ
AFBR-5710PZ
AFBR-5715APZ
AFBR-5701APZ
AFBR-5705PZ
AFBR-5705APZ
AFBR-5705PZ-NT2
AFBR-5715PZ-FD
AFBR-5715PZ-NT1
AFBR-5715PZ-NT3
AFBR-5715PZ-NT5
AFBR-5715PZ-TE1
AFBR-5715PZ-SC1
AFBR-5715PZ-TE2
AFBR-5715PZ-BN1
AFBR-5715PZ-LU1
AFBR-5710PZ-FJ1
AFBR-5715PZ-BN2
AFBR-5710PZ-3C1
AFBR-5715PZ-ER1
AFBR-5705PZ-BN2
AFBR-5715PZ-HP1
AFBR-5710PZ-CN1
AFBR-5710PZ-NK1
AFBR-5705PZ-NT4
AFBR-5715PZ-AL1
AFBR-5715APZ-AL1
AFBR-5715PZ-FD1
AFBR-5715APZ-RL
AFBR-5715PZ-AR1
AFBR-5715APZ-NS1
AFBR-5710LZ
AFBR-5710ALZ
AFBR-5701LZ
AFBR-5715LZ
AFBR-5715ALZ
AFBR-5701ALZ
AFBR-5705LZ
AFBR-5705ALZ
AFBR-5715SZ-H3C
AFBR-5710SZ-H3C

1G LC SMSFP Fiber Optics Transceivers, RoHS

AFCT-5710PZ-3C1
AFCT-5710PZ-CN1
AFCT-5710PZ-NK1
AFCT-5715APZ-AL1
AFCT-5715APZ-FD1
AFCT-5715APZ-NS1
AFCT-5715PZ-AR2
AFCT-5715PZ-FD1
AFCT-5701ALZ

AFCT-5701APZ
AFCT-5701LZ
AFCT-5701PZ
AFCT-5705ALZ
AFCT-5705APZ
AFCT-5705LZ
AFCT-5705PZ
AFCT-5705PZ-NT2
AFCT-5710ALZ
AFCT-5710APZ
AFCT-5710APZ-AL1
AFCT-5710LZ
AFCT-5710PZ
AFCT-5710PZ-AL1
AFCT-5710PZ-FD
AFCT-5715ALZ
AFCT-5715APZ
AFCT-5715LZ
AFCT-5715PZ
AFCT-5715PZ-ER1
AFCT-5715PZ-FD
AFCT-5715PZ-JU1
AFCT-5715PZ-NT1
AFCT-5715PZ-NT3
AFCT-5715PZ-NT5
AFCT-5715PZ-SC1
AFCT-5719PZ
AFCT-5715SZ-HW

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

AFBR-57R5APZ
SFBR-5797APZ
AFBR-57L5APZ-JU1
AFBR-57L5APZ
SFBR-5728APZ
AFBR-57R5APZ-SN
AFBR-57R5AEZ
AFBR-57R6APZ
AFBR-57R5APZ-IB
SFBR-5726APZ
SFBR-5745APZ
AFBR-57R6APZ-EMC
AFBR-57M5APZ-EMC
AFBR-57R5APZ-TE1
AFBR-57R6AEZ-HP
AFBR-57R6AEZ-HP1
AFBR-57R6AEZ
AFBR-57R6APZ-NA1
AFBR-57R6AEZ-HP2
AFBR-57J5APZ
AFBR-57R5APZ-NT2
AFBR-57R6APZ-TE1
AFBR-57R5APZ-NC1
AFBR-57R5APZ-TE2
AFBR-57R5AEZ-BR1
AFBR-57R5AEZ-HP1
AFBR-57R5AEZ-HP2
AFBR-57R5APZ-SR1
AFBR-57R5APZ-NS1
AFBR-57M5APZ
AFBR-57M5APZ-TE1

AFBR-57M5APZ-MV
AFBR-57M5APZ-TE2
AFBR-57R5AEZ-IB
AFBR-57R5AQZ
AFBR-57M5APZ-HW

4/2/1G LC MMSFF Fiber Optics Tranceivers, 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 Tranceivers, RoHS

AFCT-57R5APZ
AFCT-57M5ATPZ
AFCT-57R5APZ-IB
AFCT-57R5APZ-TE1
AFCT-57J5APZ
AFCT-57R5APZ-NT2
AFCT-57R5APZ-TE2
AFCT-57R5APZ-BR1
AFCT-57J5APZ-AL1
AFCT-57R5ATPZ
AFCT-57R5ATPZ-EM
AFCT-57R5ATPZ-IB
AFCT-57R5ATPZ-TE1
AFCT-57R5ATPZ-T1
AFCT-57R5ATPZ-HP
AFCT-57J5ATPZ
AFCT-57R5ATPZ-N2
AFCT-57R5ATPZ-T2
AFCT-57R5ATPZ-BR
AFCT-57J5ATPZ-AL
AFCT-57R5ATPZ-H1
AFCT-57R5ATPZ-H2
AFCT-57R5ATPZ-NS

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.
