



PCN: V14-016-E47540-MF

Product Change Notice

Issue Date: 10 December, 2014

Change Type:
New transceiver module design

Parts Affected:
10G Ethernet, 9.8G CPRI, SFP+ LR, 1310nm Single mode

| Current Avago Part Number | New Avago Part Number |
|---------------------------|-----------------------|
| AFCT-701ASDZ | AFCT-739ASMZ |
| AFCT-701SDDZ | AFCT-739DMZ |
| AFCT-701SDZ | AFCT-739SMZ |
| AFCT-701ASDZ-AR1 | AFCT-739ASMZ-AR1 |
| AFCT-701SDZ-MY1 | AFCT-739SMZ-MY1 |
| AFCT-709ASMZ | AFCT-739ASMZ |
| AFCT-709DMZ | AFCT-739DMZ |
| AFCT-709SMZ | AFCT-739SMZ |
| AFCT-709SMZ-SN1 | AFCT-739SMZ-SN1 |
| AFCT-709JAMZ | AFCT-739JAMZ |

Description and Extent of Change:
New TOSA design with DFB laser from Avago's Breinigsville, PA fab location.

Reason for Change:
New TOSA qualification.

Effect of Change on Fit, Form, Function, Quality, or Reliability:
There is no change to form, fit, function, quality and reliability of the products. The device specification and manufacturing process will be same as the current products.

Effective Date of Change:
Product shipments using this change will begin on or after March 16, 2015 (WW1512), or earlier with customer approval. Timing of shipment will depend on customer demand and inventory on-hand of current products.

Support of Current Materials:
Avago plans to obsolete the listed current part numbers. Customers will have until March 30th, 2015 to place the last-time orders. Last-time ship date from Avago will be June 29th, 2015.

Recommended Actions to be Taken by Customer:

1. Module-level qualification is recommended. Avago will make samples available to customers in December '14 (customization lead-time not included) and will begin shipment of new 10G LR SFP+ products upon successful customer qualification starting March 16, 2015. Please return any response as soon as possible, but not to exceed 90 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:

Qualification with 2,000-hour data of the following tests has been completed:

| Leg | Test | Reference | Stress Condition | S/S | Expected Result |
|-----|--|----------------------------|---|-----|--|
| 1 | High Temperature Operating Life (HTOL) | Section 5.18 (GR-468-CORE) | Ta = 85°C, Vcc=3.3V Qual Release: 2000Hrs | 11 | 0 Failures @ 2000hrs |
| 2 | High Temperature Storage (HTS) | Section 5.18 (GR-468-CORE) | Ta = 100°C Qual Release: 2000Hrs | 11 | 0 Failures @ 2000hrs |
| 3 | Biased Damp Heat (BDH) | MIL-STD-202 Method 103 | Ta = 85°C, RH = 85%, Vcc=3.3V Qual Release: 1000Hrs | 11 | 0 Failures @ 1000hrs |
| 4 | Un-Biased Damp Heat (uBDH) | MIL-STD-202 Method 103 | Ta = 85°C, RH = 85% Qual Release: 1000Hrs | 11 | 0 Failures @ 1000hrs |
| 5 | Biased Cyclic Moisture Resistance (BCMR) | MIL-STD-883 Method 1004 | Ta = -10°C to +65°C, Biased, Power On/Off @30min, 95%RH Qual Release: 20 Cyc | 11 | 0 Failure @ 20 Cyc |
| 6 | Temperature Cycling (TMCL) | MIL-STD-883 Method 1010 | Ta = -40°C/100°C 15 min. dwell @ Cold & Hot Temp 5 min. Transfer Qual Release: 500 Cyc | 11 | 0 Failure @ 500 Cyc |
| 7 | Low Temperature Storage (LTS) | GR-468-CORE | Ta= -40°C Qual Release: 72Hrs | 11 | 0 Failure @ 72hrs |
| 8 | Thermal Shock (TS) | MIL-STD-883 Method 1011.9 | Ta= -40°C/100°C 5 min dwell @ Cold & Hot Temp 10 s transfer Qual Release: 20 Cyc | 11 | 0 Failure @ 20 Cyc |
| 9a | Mechanical Shock (MS) | MIL-STD-883 Method 2002B | 1500g, 0.5ms, 5 shock/axis, 6 axis | 11 | 0 Failure |
| 9b | Mechanical Vibration (MV) | MIL-STD-883 Method 2007 | 20g, 20 to 2000Hz, 3 axis, 4min/cycle, 4cycle/axis | 11 | 0 Failure |
| 10 | ESD – HBM | JESD22-A114-B | 1KV (High Speed Pins) 2KV (Low Speed Pins) | 6 | 0 Failure @ 1KV (High Speed Pin) 0 Failure @ 2KV (Low Speed Pins) |

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.