

## Product Change Notification

PCN#: V22-007-F-MA0  
Issue Date: Dec 12, 2022

### Change Type:

Minor

### Parts Affected:

Product Family	Product Description	Broadcom Part Number
1G SX	SFP 1G SX	AFBR-5718PZ-xxx
1G SX	SFP 1G SX	AFBR-5718APZ-xxx

### Description and Extent of Change:

Replace non-anti Sulphur passive components with Sulphur resistant grade. No changes to components that do not have drop-in replacements.

### Reasons for Change:

Improve Sulphur resistance.

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

There is no change to form, fit, function, quality and reliability of the products.

### Effective Date of Change:

Product shipments using this change will begin on or after 90 days upon customer approval. Approximate timing for shipment will be around Mar '23 (WW2309). Timing of shipment will depend on customer demand and inventory on-hand of current products.

**Qualification Data:**

Qualification data is on Table 1.

**Table 1: Module Qualification Test Summary**

Leg	Test	Reference	Condition	Result
1	High Temperature Operating Life (HTOL)	GR-468-CORE	Tcase= 85°C, VCC =3.3 volt	Passed
2	High Temperature Storage Life (HTS)	GR-468-CORE	Ta=85°C	Passed
3	Biased Damp Heat (BDH)	MIL-STD-202 Method 103	Tcase = 85°C, RH=85% Vcc=3.3V	Passed
4	Un-Biased Damp Heat (uBDH)	MIL-STD-202 Method 103	Ta= 85°C, RH=85%	Passed
5	Temperature Cycling (TMCL)	MIL-STD-883 Method 1010	Ta = -40°C to Tmax = 85°C	Passed
6	Thermal Shock	MIL-STD-883 Method 1011.9	Ta = -40°C to Tmax = 85°C	Passed
7	Biased Cyclic Moisture Resistance (BCMR)	MIL-STD-883 Method 1004	Ta= -10°C to +65°C, Biased, Power On/Off @ 30min, 95%RH	Passed
8	Mechanical Shock (MS) + Mechanical Vibration (MV)	MS: MIL-STD-883 Method 2002B	1500g, 0.5ms, 5 shock/axis, 6-axis	Passed
		MV: MIL-STD-883 Method 2007	20g, 20 to 2000Hz, 3-axis, 4min/cycle, 4cycle/axis	Passed
9	Sulphur Resistance Test	N/A	Temp: 40 deg C Humidity: 85% RH Test duration: 20 days	Passed

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**Recommended Actions to be taken by Customer:**

Please contact Local Sales to request samples and include product change notification number listed at the top right.

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These changes have been reviewed and approved by Broadcom engineers and managers per Broadcom's procedure. Please contact your Broadcom Field Sales Engineer or Contact Center (<https://www.broadcom.com/company/contact/>) for any questions or support requirements.