

PCN-CSG-001522

Product Change Notice

Issue Date: September 4, 2019

Change Type:

Addition of a substrate vendor

Parts Affected:

BCM56044B0KFSBLG

BCM56045B0IFSBLG

BCM56046B0IFSBLG

BCM56540B0KFSBLG

BCM56648KB0KFSBLG

BCM56649KB0KFSBLG

Description and Extent of Change:

Add Nanya as a substrate supplier (no changes to the material set)

Reasons for Change:

Second substrate source to support production volumes

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

The device specification will remain the same, which will ensure product electrical performance remains the same. Appropriate electrical characterization and reliability qualification were performed on representative products to ensure normal parametric distribution, consistent electrical performance, and reliability.

Effective Date of Change:

Product shipments using this change will begin after December 5, 2019. Timing of shipment of the changed part will vary by part number depending on qualification completion, customer demand, and inventory levels.

Qualification Data:

Qualification data has been generated and approved as shown in table below

Device	BCM5604xKFSBLG		
PROCESS TECHNOLOGY	40nm		
PACKAGE TYPE	FCBGA+HS, 45x45 mm		
FOUNDRY SOURCE	TSMC		
ASSEMBLY SOURCE	ASEK		
SUBSTRATE SOURCE	Nanya		

TEST	SPEC	Conditions	Sample Size	Read point (hrs/cycles ~)	Results
Preconditioning	JESD22-A113 J- STD-020	MSL Level 3 (30°C, 60%RH)	154	192 Hrs	Pass
uHAST	JESD22-A118	130°C, 85% RH, No bias (pre-con parts)	77	96 Hrs	Pass
TC JESD	JESD22-A104	-55°C to 125°C	77	500 cycles	Pass
	JESD22-A104	air to air (pre-con parts)		1000 cycles	Pass
HTSL JESD22-	IECD22 A102	Ta= 150°C.	77	500 Hrs	Pass
	JE3D22-A103			1000 Hrs	Pass



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