

Product Advisory

Issue Date: 20-January-2022

Change Description:

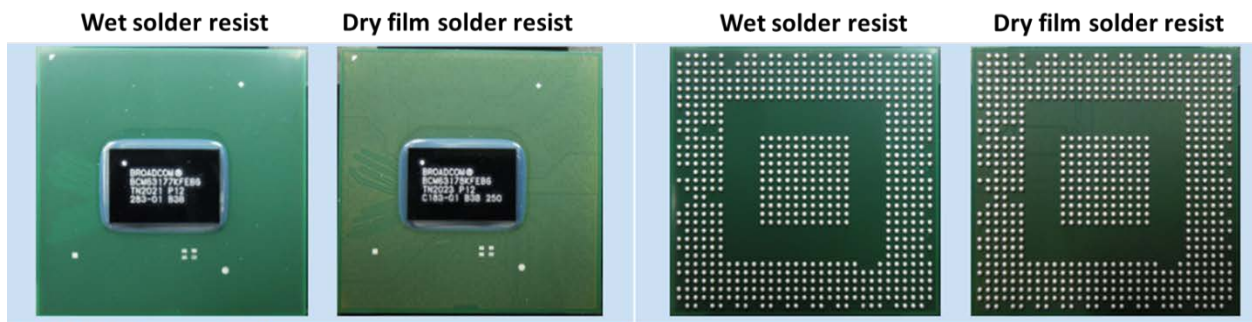
Addition of dry film solder resist in substrate manufacturing

Parts Affected:

BCM68380FKFSBG
BCM68380IFSBG
BCM68380MIFSBG
BCM68389IFSBG

Description and Extent of Change:

Addition of dry film solder resist to current wet solder resist process. Dry solder resist film is translucent, and is currently used in production on other Broadcom high volume products. Dry solder resist film Form, Fit and Function are identical to the wet solder resist currently used, except for the cosmetic difference. Use of the dry solder resist film has no impact to customers SMT process. Example shown below:

**Reasons for Change:**

Manufacturing Flexibility

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 has been 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 shipping interchangeably after February 1 2022. Timing of shipments for these parts will vary by part number depending on customer demand, and inventory levels.

Qualification Data:

Qualification Data has been generated and approved. Please reference the table below.



Stress Test	Condition	Read points	Sample Size	Requirements	Results
		Cycles / Hrs.			
Precondition	MSL3 JESD22-A113E		154 units	0 failures	0 / 170
Temp Cycle	-55°C / 125°C JEDEC Std. 22-A104-C Cond. B	1000 cycles	77 units	0 failures	0 / 85
uHast	130°C/85%RH JEDEC Std. 22-A102-C	96hrs	77 units	0 failures	0 / 85
HTSL	TA=150°C	1000hrs	77 units	0 failures	0 / 85

Software / Firmware Update:

As with all changes please check with your Broadcom FAE to determine if any software or firmware updates are required as a result of this change.

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please acknowledge the receipt of the notice within 30 days of delivery. Lack of acknowledgement within 30 days constitutes acceptance of the change per JEDEC J-STD-046.