

Product Advisory

Issue Date: 31-January-2024

Change Description:

Addition of dry film solder resist in substrate manufacturing

Parts Affected:

BCM54994B0KFSBG
BCM54994HC0IFSBG
BCM50994EB0KFSBG
BCM54994B0IFSBG
BCM54994EB0IFSBG
BCM54994EB0KFSBG
BCM84894B0IFSBG
BCM84894B0KFSBG
BCM54994EMB0IFSBG
BCM54994MB0IFSBG
BCM54994SKB0KFSBG
BCM84894MB0IFSBG

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 is Form, Fit and Function 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.

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 15-May-2024. Timing of shipments for these parts will vary by part number depending on customer demand, and inventory levels.



Qualification Data:

Qualification is in process and reliability data will be available per the reference table below.

Stress Test	Condition	Read points	Sample Size	Requirements	Results
		Cycles / Hrs.			
Precondition	MSL3 JEDEC22-A113E		150 units	0 failures	5/1/2024
Temp Cycle	-55°C / 125°C JEDEC Std. 22-A104-C Cond. B	700 cycles	3 lots of 25 units/lot	0 failures	5/1/2024
UHASt	130°C / 85%RH JEDEC Std. 22-A118-B	96 hrs	3 lots of 25 units/lot	0 failures	5/1/2024
HTSL	TA=150°C JEDEC Std. 22-A103-D	1000 hrs	3 lots of 25 units/lot	0 failures	5/1/2024

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.