

Product Change Notice

Issue Date: 30-Sep-2022

Change Description:

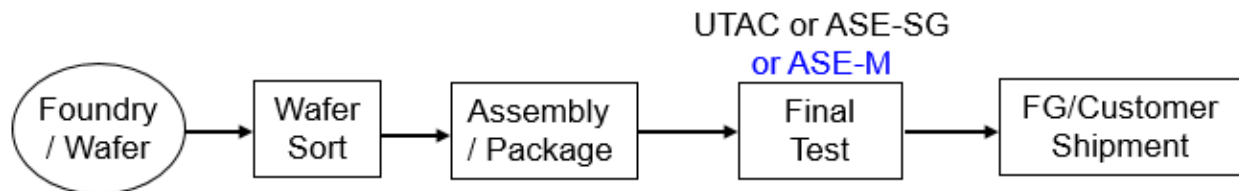
Add ASE-M as a 3rd source Final Test site

Parts Affected:

BCM89530B1BPBG
BCM89530B1BPBGT
BCM89531B1BPBG
BCM89531B1BPBGT

Description and Extent of Change:

Electrical Final Testing (FT) is currently performed on this product at UTAC (Singapore) and ASE-SG (Singapore). Broadcom will add ASE-M (Malaysia) as a 3rd source for FT. There is no change to the Foundry or Assembly locations or processes for this PCN – see updated flow below.



Note: ASE-M is a Broadcom qualified automotive supplier and is currently shipping automotive production.

Reasons for Change:

Increase final test capacity and flexibility

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

The device specification, test limits, SYA/SBL limits, and S-PAT will remain the same, which will ensure product electrical performance remains the same. Appropriate correlation was performed to ensure no impact on Fit, Form, Function, Quality, or Reliability.

Effective Date of Change:

Product shipments using this change will begin after **1-Nov-2022**. Timing of shipment of parts tested at ASE-M will vary by part number depending on customer demand and inventory levels.



Correlation Information:

The ASE-SG to ASE-M correlation has been completed. See the table below for details.

Correlation Item	ASE-M Result	OK/NOK
	89531/89530	
Tester	Same as at UTAC/ASE-SG	OK
Test DIB	Same as at UTAC/ASE-SG	OK
Test Program	Same as at UTAC/ASE-SG	OK
Test time / # of tests	Same as at UTAC/ASE-SG	OK
SYL/SBL limits	Same as at UTAC/ASE-SG	OK
S-PAT limits	Same as at UTAC/ASE-SG	OK
Tester MSA	Pass	OK
Reproducibility:		
- Loop 20x; 8 units/site (8 sites) @ Hot Temp	1280/1280 Pass	OK
- Loop 20x; 8 units/site (8 sites) @ Cold Temp	1280/1280 Pass	
Repeatability:		
- Loop 50x; 1 unit @ Hot Temp	50/50 Pass	OK
- Loop 50x; 1 unit @ Cold Temp	50/50 Pass	
Yield/reject correlation/comparison (≥25 KGU & ≥25 KBU)*	Hot Temp: KGU 25/25 Pass; KBU 0/25 Pass Cold Temp: KGU 25/25 Pass; KBU 0/25 Pass	OK
Analog test parameter correlation (500u/lot)	3 total lots - Pass	OK

*Note: KGU = Known Good Units; KBU = Known Bad Units

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please return any response as soon as possible, but **not to exceed 30 days**.