

PCN-264405

Product Change Notice

Issue Date: 13-June-2023
Revised Date: 17-July-2023

Change Description:

Bring up 2nd source assembly for the following parts at ASE KaoHsiung

Parts Affected:

BCM54385C1IPBG
BCM54385C1KPBG
B50140B0KFBG
BCM54140B0IFBG
BCM54140B0KFBG
BCM54213PEB1IMLG
BCM54213PEB1KMLG
BCM54213PEB1KMLGT
BCM54216EB1IMLG
BCM54216EB1KMLG

Description and Extent of Change:

Adding additional assembly suppliers to increase capacity for the above part numbers.

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 the product's electrical performance remains the same. Appropriate electrical characterization and reliability qualification have 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 after 09/30/2023. The timing of shipment of the changed part will vary by part number depending on qualification completion, customer demand, and inventory levels.

Qualification Data:

Please reference the table below for Qualification Data.

QFN

| Stress Test | Condition | Read points Cycles / Hrs. | Sample Size | Requirements | Results (# fail/ss) |
|--------------|---|------------------------------|-------------|--------------|------------------------|
| Precondition | MSL3 JEDEC Std. 22-A113G | | 154 units | 0 failures | 0 / 154 |
| Temp Cycle | -55°C / 125°C JEDEC Std. 22-A104 Cond. B | 700 cycles | 77 units | 0 failures | 0 / 77 |

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|-------|-----------------------------------|----------|----------|------------|--------|
| uHAST | 130°C/85%RH JEDEC Std. 22-A118 | 96 hrs | 77 units | 0 failures | 0 / 77 |
| HTSL | TA=150°C JEDEC Std. 22-A103 | 1000 hrs | 77 units | 0 failures | 0 / 77 |

FBGA

| Stress Test | Condition | Read points Cycles / Hrs. | Sample Size | Requirements | Results (# fail/ss) |
|--------------|---|------------------------------|-------------|--------------|------------------------|
| Precondition | MSL3 JEDEC Std. 22-A113G | | 154 units | 0 failures | Pass |
| Temp Cycle | -55°C / 125°C JEDEC Std. 22-A104 Cond. B | 700 cycles | 77 units | 0 failures | Pass |
| uHAST | 130°C/85%RH JEDEC Std. 22-A118 | 96 hrs | 77 units | 0 failures | Pass |
| HTSL | TA=150°C JEDEC Std. 22-A103 | 1000 hrs | 77 units | 0 failures | Pass |

PBGA

| Stress Test | Condition | Read points Cycles / Hrs. | Sample Size | Requirements | Results (# fail/ss) |
|--------------|---|------------------------------|-------------|--------------|------------------------|
| Precondition | MSL3 JEDEC Std. 22-A113G | | 154 units | 0 failures | 0 / 154 |
| Temp Cycle | -55°C / 125°C JEDEC Std. 22-A104 Cond. B | 700 cycles | 77 units | 0 failures | 0 / 77 |
| uHAST | 130°C/85%RH JEDEC Std. 22-A118 | 96 hrs | 77 units | 0 failures | 0 / 77 |
| HTSL | TA=150°C JEDEC Std. 22-A103 | 1000 hrs | 77 units | 0 failures | 0 / 77 |

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 acknowledgment within 30 days constitutes acceptance of the change per JEDEC J-STD-046.

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