

# TEST PRODUCT QUALIFICATION REPORT

**TITLE:**

Test Transfer of AD5668 (LFCSP) from STATS  
ChipPAC Malaysia (SCM) to STATS ChipPAC China  
(SCC)

**PCN NUMBER:**

14\_0005

**REVISION:**

A

**DATE:**

04 June 2014

## PROJECT BACKGROUND

Test transfers are carried out to qualify STATS ChipPAC China (SCC) as an additional test site for ADI devices to support production, and where STATS ChipPAC Malaysia (SCM) factory will shut down in 2014.

## SUMMARY

AD5668 LFCSP will be transferred from SCM to SCC.

There is no change to the form, fit, function, quality or reliability between platforms.

This report documents the successful completion of the product test transfer requirements of AD5668 LFCSP from SCM to SCC.

Test product qualification was performed according to Analog Devices Specification (ADI0012 / TST000137 / TST00095)

## TEST AND PRODUCT INFORMATION

Device: AD5668  
Package: LFCSP-4x4x0.75  
Leads: 16  
Tester Platform: MFLXMS  
Handler: Delta Edge

### Description and Test Results

Table 1 provides a description of the qualification tests conducted and corresponding test results for AD5668LFCSP. All the units have undergone electrical tests on both the sending and receiving sites on the same test platform. Any device that did not meet the electrical qualification requirements without further analysis and data to prove passing, the qualification would be considered failed.

Table 1. Test Product Transfer Qual Criteria

Generic	Package	Lot number	Lot Size	Sending Site	Receiving Site	Mean Shift =< 0.5sigma	Sigma Ratio =< 1.3
AD5668	4x4x0.75 LFCSP	2657432.1	100	SCM	SCC	Passed	Passed

The AD5668 was qualified by running a qualification lot with 100 units both in SCM and SCC. Data between sites were analyzed as summarized in Table 1.

A passing result was recorded when the yield from receiving site met or exceeded yield from sending site as summarized in Table 2. Succeeding lots with increased quantity will be closely monitored once the device has started production run at SCC.

Table 2. Test Product Transfer Qualification Lot Run

GENERIC	Package	Lot number	Lot Size	Test Site	Results
AD5668	4x4x0.75 LFCSP	2657432.1	100	SCC	Passed

No valid rejects were encountered during the said evaluation in both sending and receiving sites.

### Rejects Verifications

5 valid rejects tested in SCM and SCC having the same result.

Table 3. Setup verification using Reject units

Unit #	SCM	SCC
1	Failed	Failed
2	Failed	Failed
3	Failed	Failed
4	Failed	Failed
5	Failed	Failed

### Conclusion:

AD5668 LFCSP handler correlation data on both sites are correlated. Data are already approved by PE and CY, it is acceptable. AD5668 LFCSP device is now ready for transfer to SCC.

### Approvals

TRB#9972  
Test Product Engineer  
Chute Yield Engineer

### Supporting Documents

Technical Review Board: TRB#9972

### Additional Information

Homepage: <http://www.analog.com/en/index.html>  
Datasheet: <http://www.analog.com/en/analog-to-digital-converters/video-decoders/AD5668/products/product.html>  
Customer Service: [http://www.analog.com/en/content/technical\\_support\\_page/fca.html](http://www.analog.com/en/content/technical_support_page/fca.html)