

TEST PRODUCT QUALIFICATION REPORT

TITLE:

Test Transfer of ADV7180 (LFCSP) from STATS
ChipPAC Malaysia (SCM) to STATS ChipPAC China
(SCC)

PCN NUMBER:

13_0303

REVISION:

A

DATE:

25 Apr 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. ADI is transferring due to the closure of STATS ChipPAC Malaysia (SCM) at the end of 2014.

SUMMARY

ADV7180 LFCSP will be transferred from SCM to SCC for test solution.

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 ADV7180 LFCSP from SCM to SCC.

Test product qualification was performed according to Analog Devices Specification (ADI0012 / TST00137 / TST00095)

TEST AND PRODUCT INFORMATION

Device: ADV7180
Package: LFCSP-5x5x0.75
Leads: 32
Tester Platform: Catalyst
Handler: Delta Edge

Description and Test Results

Table 1 provides a description of the qualification tests conducted and corresponding test results for ADV7180 LFCSP. 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 =< 5%	Sigma Ratio =< 1.3
ADV7180	5x5x0.75 LFCSP	2633592.1P	100	SCM	SCC	Passed	Passed

The ADV7180 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
ADV7180	5x5x0.75 LFCSP	2633592.1P	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

ADV7180 LFCSP handler correlation data on both sites are correlated. Data are already approved by PE and CY, it is acceptable. ADV7180 LFCSP device is now ready for transfer to SCC.

Approvals

TRB#9419

Test Product Engineer: Dave Walsh

Chute Yield Engineer: David Lane

Supporting Documents

Technical Review Board: TRB#9419

Additional Information

Homepage: <http://www.analog.com/en/index.html>

Datasheet: <http://www.analog.com/en/analog-to-digital-converters/video-decoders/adv7180/products/product.html>

Customer Service: http://www.analog.com/en/content/technical_support_page/fca.html