

WHISKER REPORT

This report summarizes the package whisker test results for SMPC4.6U. Accelerated environmental test have been performed according to JESD201A and internal TSC quality and reliability requirements. Package details and whisker test results are summarized as follows.

Product Details:

Supplier:	Taiwan Semiconductor Co., Ltd.
Package Type:	SMPC4.6U
Assembly Site:	Yilan, Taiwan
General Specification:	JESD201A

Package Type Covered:

SMPC4.6U

Whisker Test Results Summary:

Stress Test	Abbrev	Test Methods	Test Conditions	Final Readpoint	Requirements		Criteria	Results	
					SS	# Lots		Rej/SS	Remarks
Environmental and Lifetime Stress Tests									
Temperature Cycle	TC	JESD22-A121 JESD201	-55 (+0/-10)°C to +85 (+10/-0)°C air to air; 10minutes soak; ~3cycles/hour	500 cys	3	3	< 45.0 um	0/9	Passed
				1000 cys	3	3		0/9	Passed
				1000 cys	3	3		0/9	Passed
				1500 cys	3	3		0/9	Passed
Temperature/ Humidity Storage	TH	JESD22-A121 JESD201	30°C±2°C , 60%±3% RH	1000 hrs	3	3	< 40.0 um	0/9	Passed
				2000 hrs	3	3		0/9	Passed
				3000 hrs	3	3		0/9	Passed
				4000 hrs	3	3		0/9	Passed
High Temperature High Humidity Storage	HTHH	JESD22-A121 JESD201	Temperature =55°C±3°C, Humidity=85%±3%	1000 hrs	3	3	< 40.0 um	0/9	Passed
				2000 hrs	3	3		0/9	Passed
				3000 hrs	3	3		0/9	Passed
				4000 hrs	3	3		0/9	Passed

Conclusion:

SMPC4.6U package successfully passed Tin Whisker test per JESD201A.