1. Introduction

1.1. Purpose

This is qualification test. The purpose of this test is to evaluate the performance of SHIELD FINGER 0820. Testing was performed on below products to determine it compliance with the requirements of product specification 108-115120.

1.2. Scope

This test report is for 1.2H spring finger.
Testing was performed at TE test Laboratory.

1.3. Conclusion

The 1.2H spring finger, listed in paragraph 1.5, met the electrical, mechanical, and environmental performance requirements of TE product specification 108-115120.

1.4. Product Description

This Connector is a SHIELD FINGER 0820 which is applicable to application of spring finger.

1.5 Test Samples

Samples were taken randomly from current production.

The samples of Fig.1 were used.

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TEST PURPOSE

This is product qualification test. The purpose of this test is to evaluate the performance of High current spring finger connector. Testing was performed on below products to determine it compliance with the requirements of 108-115120.

TEST SEQUENCE

Test Item	Test Group						
	1	2	3	4	5	6	7
	Test Sequence						
Examination of Product	1,5	1,3	1,6	1,5	1,5	1,3	1,5
Normal force Test	3,6		2,7				
LLCR			3,5	2,4	2,4		2,4
Temperature Rising						2	
Temperature Life			4				
Thermal Shock					3		
Humidity Temp. Cycling				3			3
Durability test	4						
Resistance to Soldering Heat	2						
Solderability Test		2					

SUMMARY OF TEST RESULTS

Group	Test Item	N	Condition	Test Result				Requirement	Conclusion
				Max	Min	Ave	Unit		
1	Examination of Product	5	Initial	No physical damage			N/A	No abnormalities	Meet Spec
	Resistance to Soldering Heat	5	Initial	No physical damage			N/A	No abnormalities	Meet Spec
	Normal force Test	5	Initial	0.66	0.58	0.61	N	0.4N Min.	Meet Spec
	Durability test	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
	Examination of Product	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
	Normal force Test	5	Final	0.65	0.60	0.63	N	0.4N Min.	Meet Spec
2	Examination of Product	5	Initial	No physical damage			N/A	No abnormalities	Meet spec
	Solderability Test	5	Final	Soldering Coverage greater than 95%			N/A	95% Min.	Meet Spec
	Examination of Product	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
3	Examination of Product	5	Initial	No physical damage			/	No abnormalities	Meet Spec
	Normal force Test	5	Initial	0.65	0.60	0.63	N	0.4N Min.	Meet Spec
	LLCR	5	Initial	24.9	20.7	23.5	mΩ	50 mΩ Max.	Meet spec
	Temperature Life	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
	LLCR	5	Final	34.5	22.3	26.1	mΩ	50 mΩ Max.	Meet Spec
	Examination of Product	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
	Normal force Test	5	Final	0.52	0.56	0.50	N	0.4N Min.	Meet spec

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4	Examination of Product	5	Initial	No physical damage			N/A	No abnormalities	Meet spec
	LLCR	5	Initial	31.9	25.5	29.6	mΩ	50 mΩ Max.	Meet Spec
	Humidity and Temperature Cycling	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
	LLCR	5	Final	28.6	23.4	25.3	mΩ	50 mΩ Max.	Meet Spec
	Examination of Product	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
5	Examination of Product	5	Initial	No physical damage			N/A	No abnormalities	Meet spec
	LLCR	5	Initial	31.1	23.4	40.4	mΩ	50 mΩ Max.	Meet Spec
	Thermal Shock	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
	LLCR	5	Final	24.2	21.6	22.7	mΩ	50 mΩ Max.	Meet Spec
	Examination of Product	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
6	Examination of Product	5	Initial	No physical damage			N/A	No abnormalities	Meet spec
	Temperature Rising	5	Final	4.62	2.25	3.53	°C	30°C Max.	Meet Spec
	Examination of Product	5	Final	No physical damage			N/A	No abnormalities	Meet Spec
7	Examination of Product	5	Initial	No physical damage			N/A	No abnormalities	Meet Spec
	LLCR	5	Initial	34.4	23.2	30.2	mΩ	50 mΩ Max.	Meet spec
	Humidity and Temperature Cycling	5	Final	No physical damage			N/A	No abnormalities	Meet spec
	LLCR	5	Final	25.2	22.6	23.7	mΩ	50 mΩ Max.	Meet spec
	Examination of Product	5	Final	No physical damage			N/A	No abnormalities	Meet spec

ENVIRONMENTAL CONDITION

Unless otherwise stated, the following environmental conditions prevailed during testing:
Temperature:15°C to 35°C, Relative Humidity: 25% R.H to 75% R.H

TEST SPECIMEN

Assembly

Name	P/N	Qty.	Manufacturer
1.2H spring finger	2306334-*	35	TE

---------- END OF REPORT----------

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