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|  | SHANGHAI ELECTRICAL COMPONENTS TEST LABORATORY | REPORT No.: 501-115131-3 PROJECT No.: PRJ-16-000910715 |
| <h1>TEST REPORT</h1> | | STARTED: 2016-11-23 COMPLETED: 2017-02-10 ISSUED: |
| CUSTOMER INFORMATION: Name: Consumer Devices Request by: Ji, Jone Request Date: 2016-11-23 Address: No.668 Guiping Road Shanghai. China. | | SPECIMEN INFORMATION: Description: High current spring finger Part No.: 2306654- Qty.: 35 pcs Received Date: 2016-11-23 |
| DISPOSED OF SAMPLES: Keep in lab | | |
| DESCRIPTION : 1.8H spring finger. See Fig1, total 35pcs samples were used for 7 test groups. | | |
| SCOPE : This specification covers the requirements for product performance, test methods and quality assurance. Testing was performed at TE Connectivity Shanghai Electrical Test Laboratory between Nov 23, 2016 and Feb 10, 2017. | | |
| TEST PERFORMED : See test sequence (page 2) and test procedure (page 4& page 5). | | |
| SPECIFICATION : 108-115120. | | |
| CONCLUSION : See the summary of test result. | | |
| DISTRIBUTION : Applicant | | |
| PREPARED BY: Dong Zhihua Test Engineer | CHECKED BY: Wu Hellen Test Supervisor | |
| APPROVED BY: Lu Robin Test Manager | CLASSIFICATION: Class 2 | |
| APPENDICES: See Appendix. | | |

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TE Connectivity Shanghai Electrical Components Test Laboratory.

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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 | 0.74 | 0.67 | 0.70 | 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 | 0.72 | 0.67 | 0.69 | 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 | 0.77 | 0.72 | 0.745 | N | 0.4N Min. | Meet Spec |
| | LLCR | 5 | Initial | 43.0 | 40.3 | 41.8 | mΩ | 50 mΩ Max. | Meet spec |
| | Temperature Life | 5 | Final | No physical damage | | | N/A | No abnormalities | Meet Spec |
| | LLCR | 5 | Final | 46.9 | 41.3 | 44.5 | 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 | 0.70 | 0.64 | 0.67 | 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 | 46.5 | 31.3 | 39.2 | mΩ | 50 mΩ Max. | Meet Spec |
| | Humidity and Temperature Cycling | 5 | Final | No physical damage | | | N/A | No abnormalities | Meet Spec |
| | LLCR | 5 | Final | 46.1 | 29.1 | 39.1 | 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 | 42.8 | 40.4 | 41.4 | mΩ | 50 mΩ Max. | Meet Spec |
| | Thermal Shock | 5 | Final | No physical damage | | | N/A | No abnormalities | Meet Spec |
| | LLCR | 5 | Final | 45.5 | 40.5 | 43.5 | 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 | 11.3 | 8.8 | 10.4 | °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 | 43.5 | 39.6 | 41.1 | mΩ | 50 mΩ Max. | Meet spec |
| | Humidity and Temperature Cycling | 5 | Final | No physical damage | | | N/A | No abnormalities | Meet spec |
| | LLCR | 5 | Final | 43.2 | 41.2 | 42.2 | 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 |
|--------------------|-----------|------|--------------|
| 1.8H spring finger | 2306654-* | 35 | TE |

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