

SHENZHEN SUPERLINK TECHNOLOGY CO.,LTD.

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RF TEST SOLUTION

Automation Production Applications

















Our Vision

Establish an international brand and continuously create value for social and human development



Our Mission

Provide value-added products and professional services to society through technology innovation and leadership



Our Core Values

Customer First Keep Promise Continuously Improve Win-Win-Win Cooperation















Test Measurement



Shenzhen Superlink Technology Co.,Ltd.

Is founded in 2008, specializing in the development, design and manufacture of interconnection products and solutions.

We own strong scientific research strength, precision equipments and professional management systems. With reliable and consistent quality, we have been recognized by many customers and established long-term strategic partners with many top fortune 500 enterprises globally.

We are professional to provide ODM, OEM and engineering customization services, our related products have been widely used in telecommunications, data communication, test and measurement, medical, industrial automation, military, semiconductor, aerospace and so on. With outstanding technical innovation and professional service as our mission, we provide to customers the most effective interconnection solutions.

Company Milestone

- spe
- Became a me special equipm

Passed ISO1

2015

- Founded in Dongguan
- Passed ISO9001:2008

2008

- Produced RF cable assemblies
- Obtained UL & CUL certification
- Product frequency up to 20GHz

2010

2009

- Factory moved to Shenzhen
- Became a strategic partner of Volex, Times
- Obtained the first patent

2013

- Passed medical certification:ISO13485:2003
- Passed ISO14001:2004
- Product reached 40GHz

 Established clean assembly workshop and constant temperature and humidity machine processing workshop

Product frequency reach 110GHz

2020

4001:2004 ember of Shenzhen ent association

- Became an IPC memberEstablished the TEMP BU
- Passed the national high-tech enterprise certification
 Products reach 67GHz
- Established cable processing workshop[†]

2017

- Obtained Shenzhen Science and Technology Innovation Commission technology center
- Passed IATF16949 :2016
- Obtained 100+ patent certifications

2021

2019

- Approved by Guangdong Province RF microwave passive components and system engineering technology
 research center
- Passed ntellectual property management system certification GB/T29490-2017;
- Successfully developed semiconductor manufacturing and testing products

2022

• Became a member of China Electronic Components Association

R&D CAPABILITY >>>>



Software & Test Equipment •Keysight network analysis, 26.5GHz, 40 GHz, 67GHz, up to 110 GHz •Electrical Test: network analyzer test, 3rd (passive) intermodulation test (PIM), Comprehensive cable test/Contact resistance test/Insulation resistance test/withstand voltage test •Mechanical test: Rockwell 2.0, automatic plug test, push-pull torque test •Environment and reliability testing,salt spray, airtight, aging,impact, 1P67/68 waterproof, Failure cause analysis •Ansoft HFSS software



PRODUCTION CAPABILITY >>>







SLK PRODUCTS LIST >>>>





RF connector

- Type: 1.0mm, 1.35mm, 1.85mm, 2.92mm, 7/16 mm, BMA, BNC, MCX, MMCX, N, SMA, SMB, SMP, SSMP, TNC, UHF, etc
- Frequency: up to 110GHz



Test cable assembiles

- From durable to VNA high precision series, many kinds of adapters, meet all the requirements of switching test
- Frequency: up to 110GHz
- Application: network analyzer test, RF conductor test, mobile phone production line test







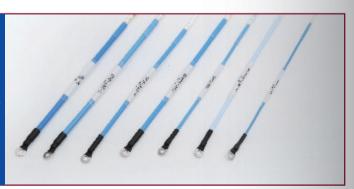
RF test probes

- Multi-channel series
- Customization series
- Reliable quality



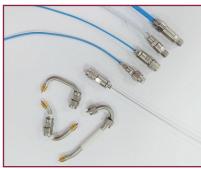
RF coaxial cable

- Main products: high frequency cable, amplitude and phase stable cable and test Railway cable etc.
- Frequency: 18GHz, 40GHz, 67GHz to 110GHz
- Support customization



SLK PRODUCTS LIST >>>>





RF Cable assemblies

- Phase match & Stable
- Hybrid & Micowave
- Flexible
- Semi-flex and Semi-rigid
- Corrugated





Custom wiring harness

- Medical
- Semi-conductor
- Aerospace
- Automotive
- Industrial





Industrial/military/mixed connector

- MIL -DTL- 38999 series connector
- MS hybrid module combination connector
- Industrial connectors: M12 and M16, etc
- Push and pull self-locking connector





Transient EM Pulse Protection

- DC PASS, DC Block, and TEMP comprehensive protection solutions
- Features: SLK TEMP protection core technology
- Applications: rail transit, radar, aircraft, military, wireless communications etc









APPENDIX

| Company Profile | 01 |
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Provide The Most Effective Interconnect Solutions

Intelligent Device RF Testing Solution >>>>



SLK provides various micro RF SW test probes, micro RF socket test probes, multi-channel RF BTB connector test probes for mobile phones and intelligent devices.

Intelligent Terminal RF Test

Product and solutions

RF SW Test probe & calibration adapter

From the 1st generation to the 6th generation, covering the major manufacturers, we can quickly provide cost-effective products and solutions.

Adapters, test leads, calibration gauges, etc.



RF test probe

Mini RF receptacle and RF SW structure is different, we can provide strong compatibility of test products and solutions.



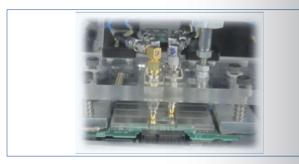
RF BTB microsocket test probe

Our unique and innovative RF BTB test probe solution can be customized for customers.



Test leads

It is recommended that the customer adopt TEFLEX RG405 test lead, which corresponds to our model NBEND400/260/180. The interface is customizable.

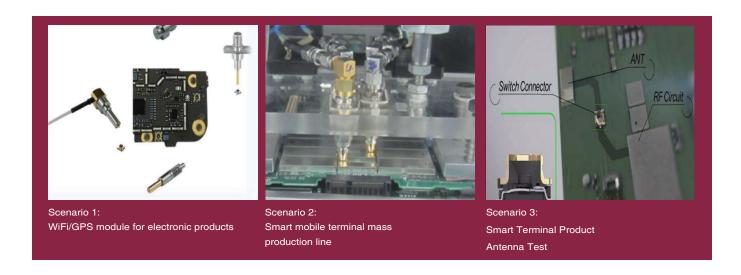


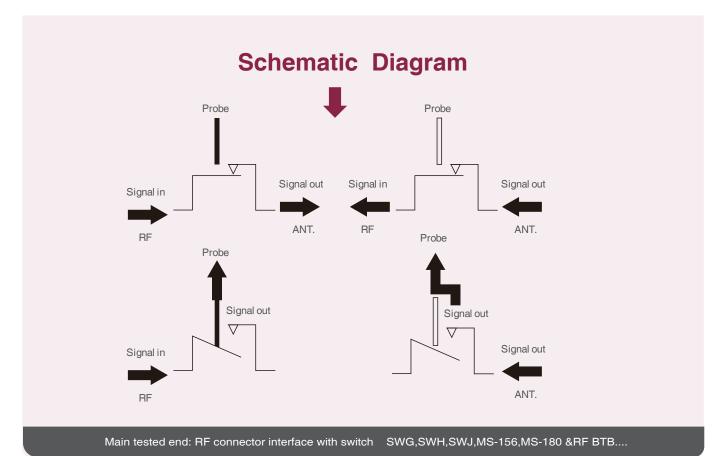


Intelligent Device RF Testing Solution

Application:

- 1. WiFi, NFC, RFID, GPS, Bluetooth and other communication module testing;
- 2. Automatic test of 4G/5G communication RF modules and smart phones.



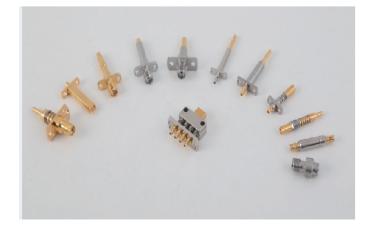


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RF Receptacle And RF SW Test Solutions

| RF SW Roadmap | Receptacle | Test Diame- |
|----------------|----------------|-------------|
| Generation I | 3.0*3.0*1.75mm | ≤2.1mm |
| Generation II | 2.5*2.5*1.4mm | ≤2.1mm |
| Generation III | 2.0*2.0*0.9mm | ≤1.35mm |
| Generation IV | 1.8*1.8*0.85mm | ≤1.2mm |
| Generation V | 1.6*1.6*0.7mm | ≤1.1mm |
| Generation VI | 1.4*1.2*0.65mm | ≤1.0mm |





Tips:

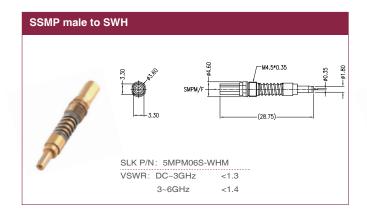
Major RF receptacle (U.fl) and switch (RF SW) suppliers have slightly different interface sizes, and each manufacturer does not accept the test results of matching. SUPERLINK can provide compatible RF test probe products and solutions, and can also customize the Calibration Adapter for users.

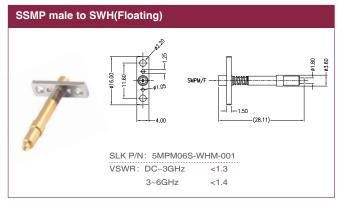


Products List

| | | | Туре | |
|-----------|-------------|-----------|-------------------|------------|
| Interface | Series | Probe | Probe Calibration | Test leads |
| | SWG | $\sqrt{}$ | | |
| | SWH | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| | MS156 | $\sqrt{}$ | $\sqrt{}$ | |
| | MS180 | $\sqrt{}$ | | |
| | UFL 1 | $\sqrt{}$ | | |
| | RF SWITCH 5 | | | |
| | SWJ | $\sqrt{}$ | | |

SWH Test Probe

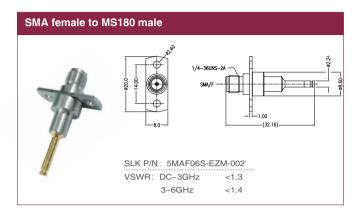






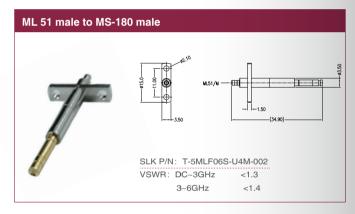
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MS180 Test probe

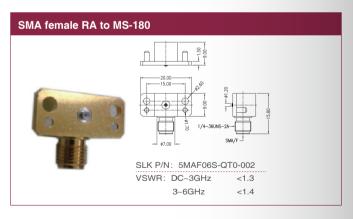














DUT:MS180(Only referece not SLK product)

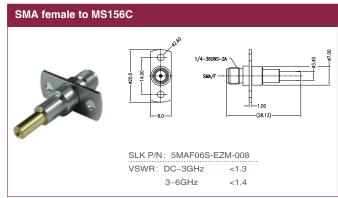


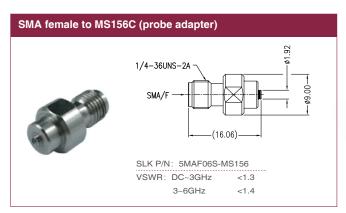


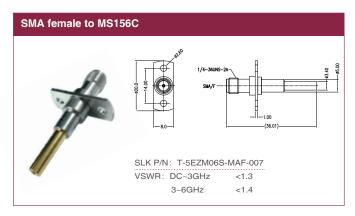


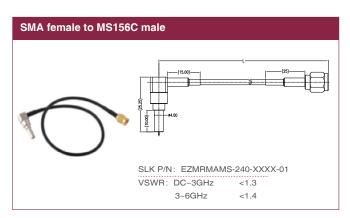
MS156 Test probe





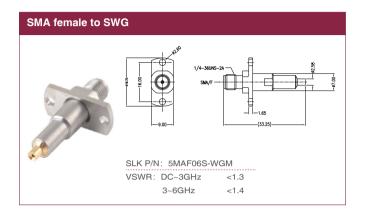


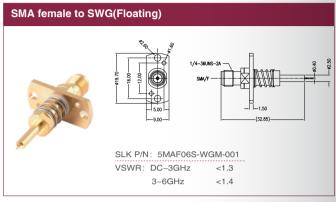


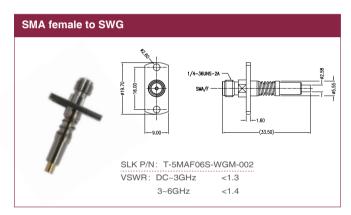


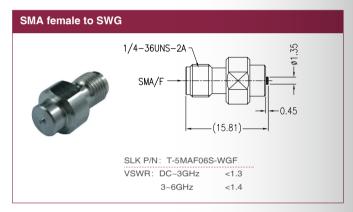


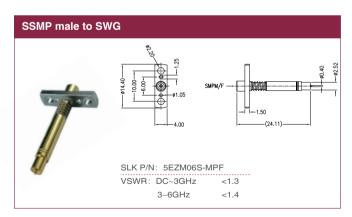
SWG Test Probe

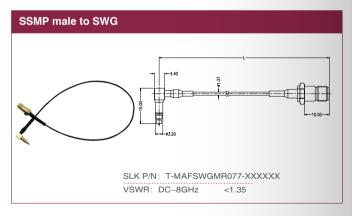








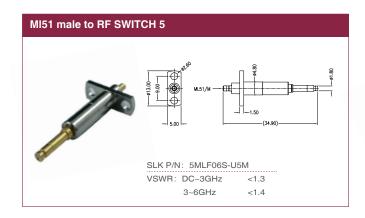


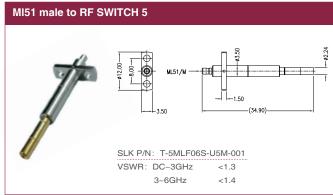


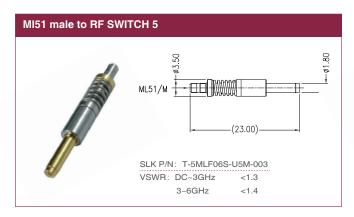


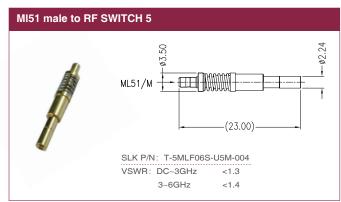


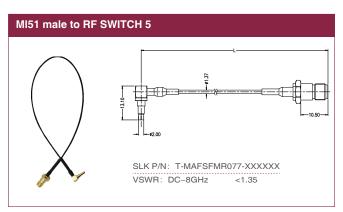
MI51 Male To RF SWITCH 5 Probe

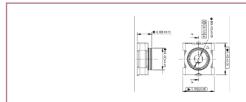








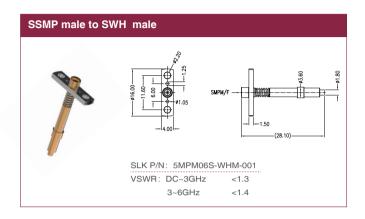


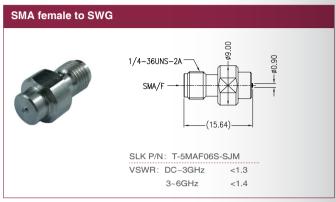


DUT:RF SWITCH 5 (Only referece not SLK product)

SLK RF test probe

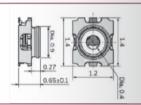
SWJ Probe



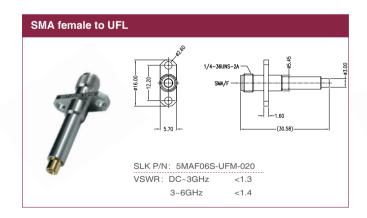




DUT Murata SWJ Switch (Only referece not SLK product)



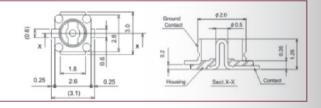
SWJ Probe





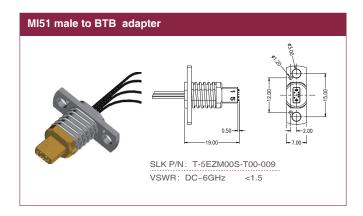


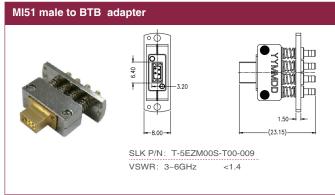
DUT UFL Gen1 Receptacle(Only referece not SLK product)

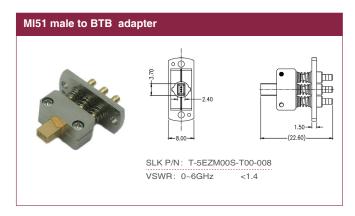


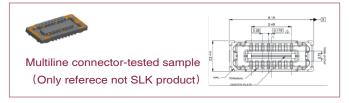


MI51 Male To BTB Probe

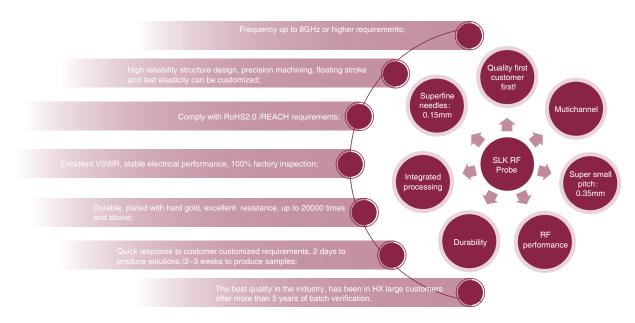








Product Introduction - Advantage of Superlink RF Probe Products

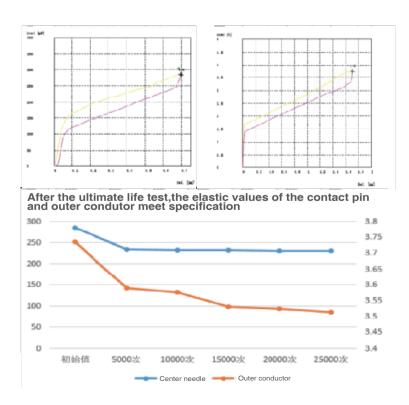


Product Introduction-SLK RF Probe Test Result

After the endurance test, the elastic values of the center pin and the outer conductor meet the specification requirements.



VSWR/IL Good Consistency





Product Introduction-Benchmark Comparison

SLK(5EZM06S-MPF) and MM206417 have similar test indexes, and can be replaced equally.

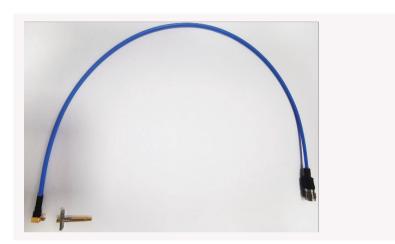
| S/N | Parameter | Competing goods (SWG series) | SLK | | |
|----------------------------------|---------------------------------------|--|---|--|--|
| 1 | Model | MM206417 | 5EZM06S-MPF | | |
| 2 | Overall Length | 25.51 | 24.81 | | |
| 3 | Flange hole spacing | 10±0.1 | 10±0.1 | | |
| 4 | Rated voltage | 335V | 335V | | |
| 5 | Characteristic impedance | 50Ω | 50Ω | | |
| 6 | Frequency range | DC~11GHz | DC~11GH | | |
| 7 | Operating temperature | -40~85℃ | -40~85 °C | | |
| Electrical performance parameter | | | | | |
| 8 | Insulation resistance | 5000 ΜΩ | 5000 MΩ | | |
| 9 | Contact resistance (inner conductor) | 24 | 26 | | |
| 10 | Contact resistance (outer conductor) | 5.0 | 5.5 | | |
| 11 | Standing wave ratio MAX (test in lab) | DC -3GHz 1.06 3GHz~6Ghz 1.08 6GHz~11Ghz 1.47 | DC -3GHz 1.06 3Ghz~6GHz 1.10 6GHz~11Ghz 1.28 | | |
| 12 | Insertion loss MAX (test in lab) | DC -3GHz 0.25dB 3GHz~6Ghz 0.28dB 6GHz~11Ghz 0.39dB | DC -3GHz 0.20dB 3GHz~11Ghz 0.21dB 6GHz~11Ghz 0.42dB | | |
| Mechanical performance parameter | | | | | |
| 13 | Frequency range | 90±20gf | 90±20gf | | |
| 14 | Working temperature | 400±30gf | 400+35\-30gf | | |

Product Introduction-Test leads

Used to connect test between PCBA baseband and chamber or chamber and radio tester.

The interface is customizable.

Common interface: SMA,SSMP,ML51,etc.



Production Features:

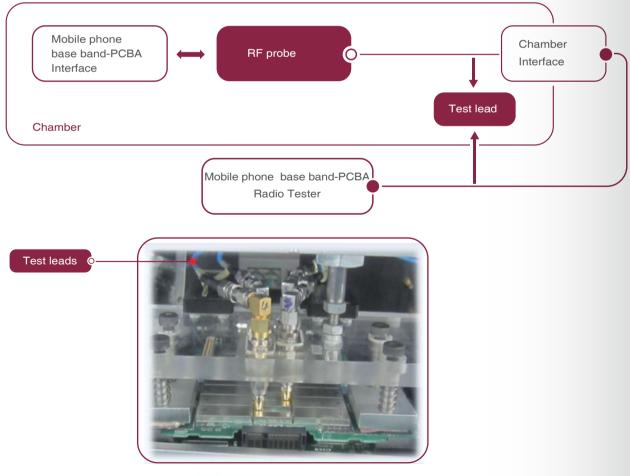
Frequency: up to 18Ghz

Bending phase(Tipcal/Max) : ±2/±5°

• Bending stability(Tipcal/Max) : ±0.05/±0.10dB

Low loss: 1.0dB/m @6Ghz

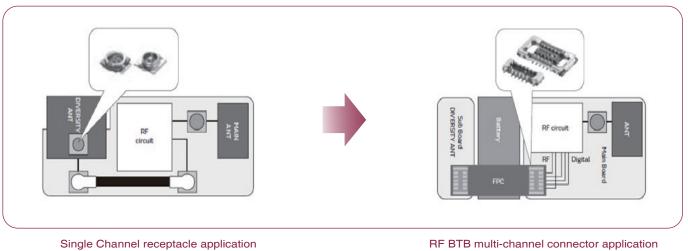
Low VSWR: <1.2@18Ghz



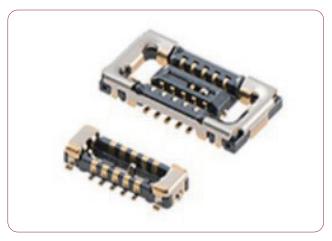
Intelligent terminal test scenario



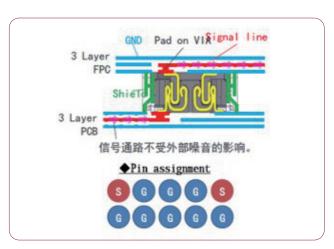
Product Introduction -RF BTB Multi-channel Probe Test Solution



Single Channel receptacle application



RF BTB Connector



RF BTB recommended signal definition



SLK RF BTB Multi-channel probe Test solution



| Intellige | ent device RF testing solution |
|-----------|--------------------------------|
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