



RENHOTECH GROUP LIMITED





Factory Area

Employees

Certificated



 Group segment

 Customer distribution



R&d team

From the research and development, mold making to production and processing of connectors, every link is supervised by senior engineers. The entire team has rich experience in the processing of connectors and wire harnesses

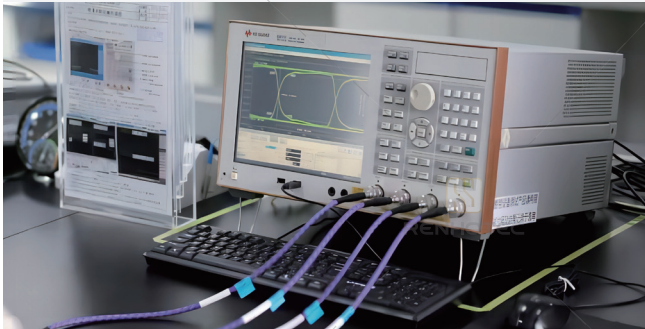
Instruments and equipment

Equipped with stamping, injection molding, electroplating manufacturing process technologies and high-precision equipment, it meets the high-quality and high-precision requirements of connectors and terminals. The adoption of automated assembly technology ensures the stable quality of connectors and enhances production efficiency.



Detection and testing

A fully qualified professional laboratory is equipped with general-purpose experimental equipment and customized intermittent testing equipment, capable of conducting tests such as electrical, mechanical performance, and environmental performance analysis, strictly in accordance with requirements.



International certification

After more than a decade of effort and technical expertise, the company has obtained the ISO 9001 and IATF16949 quality management system certifications, as well as international certifications including UL (United States) TUV (Germany) and CE and RoHS (Europe).



Application field

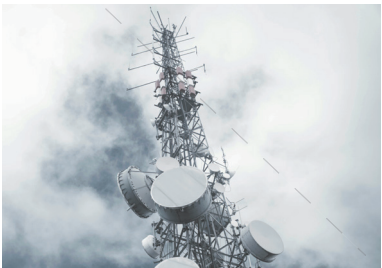
Radar/Electronic Countermeasures

In the radar and electronic countermeasures industry, high amplitude and phase consistency is essential. We supply high-performance power dividers, amplitude- and phase-stable cable assemblies, adapters, and connectors for a wide range of communication frequency bands. These are used in systems such as phased array radar, early warning radar, synthetic aperture radar, fire control radar, unmanned radar, quantum communications, optoelectronic error code measurement, 5G, and 6G.



5G/Millimeter-Wave

Our millimeter-wave interconnect products offer broad coverage and high-quality solutions for the high-end communication industry. Designed to perform in harsh outdoor environments, they include RF power splitters, coaxial adapters, and cable assemblies with outstanding electrical and mechanical properties. We collaborate with global leaders to meet diverse customer needs and bring people closer through high-speed connectivity.



Test and Measurement Equipment

Renhotec supplies cost-effective RF microwave components for testing and measurement. Our products include phase-stable amplitude-stable test cables, power dividers, combiners, adapters, filters, bias tees, amplifiers, and RF switches.



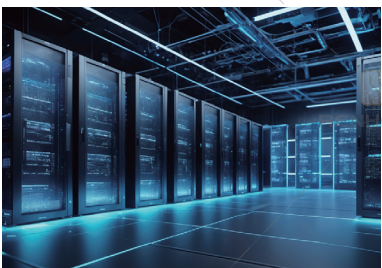
Wireless Communication

Renhotec supports the wireless communication industry—from the production and testing of WiFi, mobile phone, and Bluetooth products—with RF solutions. Our switches, power dividers, cable assemblies, and coaxial connectors are designed for high-frequency, high-repeatability applications.



AI Compute High-Speed Interconnection

Renhotec high-frequency microwave interconnect assemblies and 800G optical modules deliver ultra-low loss, low phase shift performance for large-scale AI compute clusters. Our product portfolio includes 145GHz phase-matched microwave cable assemblies, high-speed RF adapters, shielding interconnect components and high-bandwidth transceivers.



MAIN PRODUCTS



RF and Microwave Components

Power Divider/Combiner

RF Switches

Amplitude-Stable Phase-Stable Cable Assemblies

RF Precision Test Cable Assemblies

RF Connectors and Adapters

RF Loads and Attenuators

Couplers and Bias Tees

Low-Noise Amplifiers (LNA)

Power Amplifiers (PA)

Other active or passive devices

Test and Measurement Equipment

Frequency Analyzer

Digital TV Signal Integrated MachineDigital TV Modulation Card

Signal Generator

Injection Transformer



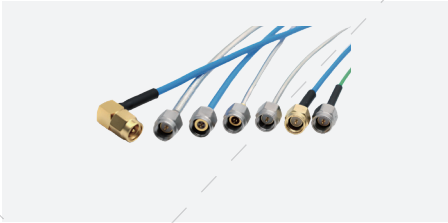
PRODUCT CATALOG



Power Divider/Combiner

02P-03P

...



Cable Assembly

04P-06P

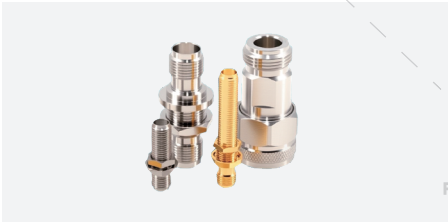
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Connectors

07P-13P

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Adapters

14P

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Attenuators

15P-16P

...



Loads

17P

...



Active Devices

18P

...



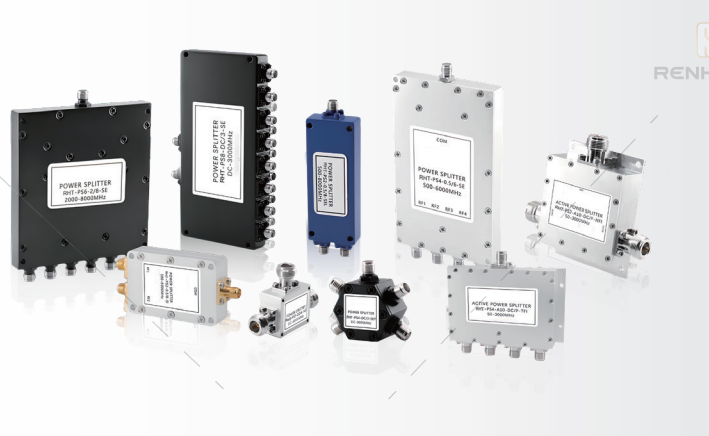
Passive Devices

19P-20P

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POWER
DIVIDERS

01.



A power divider, also known as a power splitter, is a device that splits the energy of a single input signal into two or more output signals of equal or unequal energy. It can also combine multiple signals into a single output, in which case it is also called a combiner. It is available in various connector types and frequency ranges.

Product Features

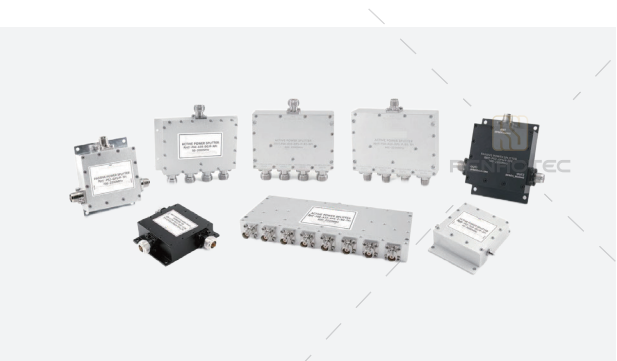
- Excellent VSWR, meeting high-precision application scenarios
- Frequency range can meet various RF communication field testing and measurement requirements
- Can be used for power division or combining
- High precision, high reliability
- Low insertion loss
- Customizable professional test-level and military-grade products
- High-temperature resistance
- Small size ● High isolation ● Low VSWR

Microstrip Series



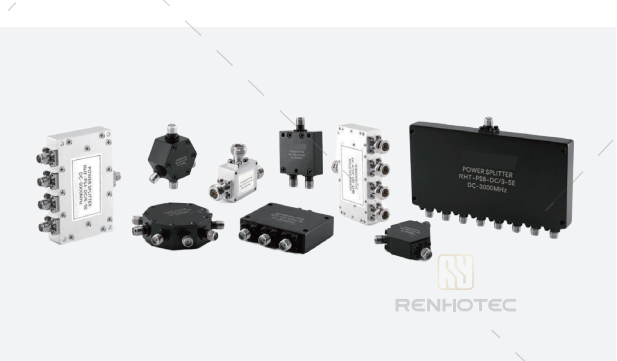
- Small size, low VSWR, low insertion loss, high isolation
- Frequency range up to 60 GHz can be customized
- Suitable for RF communication electronic product laboratory and production testing
- High mechanical reliability, wear-resistant, corrosion-resistant, long service life
- Various connectors/materials available

GPS Active Series



- Distributes and amplifies GPS/Galileo/GNSS signals to multiple GPS receivers
- Various connectors/materials available
- Customization supported
- Can provide DC power to GPS active antennas

Resistor Series



- Frequency range up to 60 GHz can be customized
- Frequency range up to 60 GHz can be customized
- Excellent electrical performance, meeting high-precision testing requirements
- Various connectors/materials available
- Customization supported



CABLE ASSEMBLY

02.



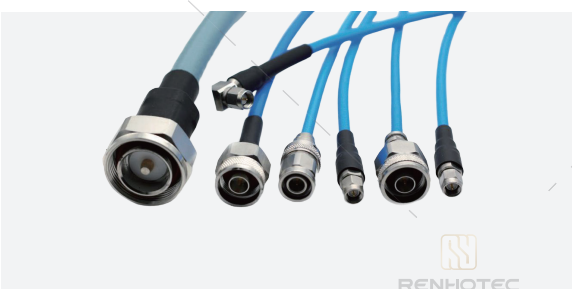
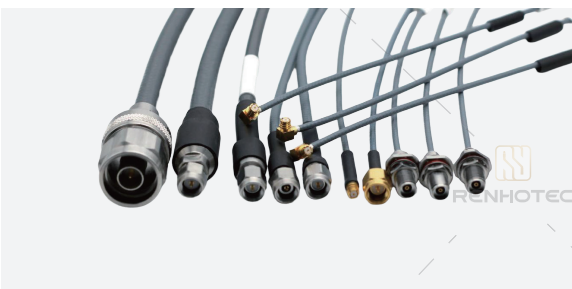
High-performance test cables combined with precision connectors form a superior test cableassembly. The excellent stability, reliability, and good amplitude-stable phase-stable performance, low loss, and low return loss all demonstrate the superior performance of the RF cableassembly. Different series of test cable assemblies can be provided according to different usageenvironments and requirements

Customizable Service Types

- Custom phase matching, phase tracking
- Custom 3D bending, third-order intermodulation testing, delay, waterproofing, adding ferrite beads
- Custom armor, connectors

Product Features

- Amplitude-stable phase-stable
- Reliability and durability
- Temperature-stable phase
- High power
- Excellent shielding performance
- Bend-stable phase



VNA Dedicated Cable

RG Military Standard Cable



Ultra-Low Loss Phase-Stable Series



Super Flexible Low-Loss Phase-Stable Series



High Shielding/High-Temperature Phase-Stable Series

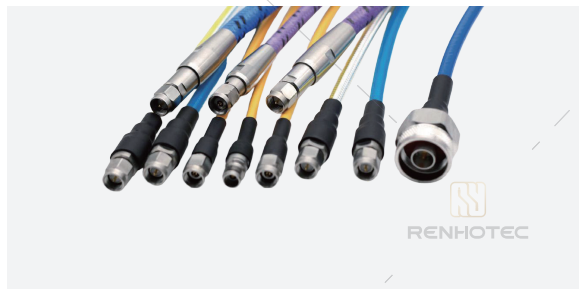




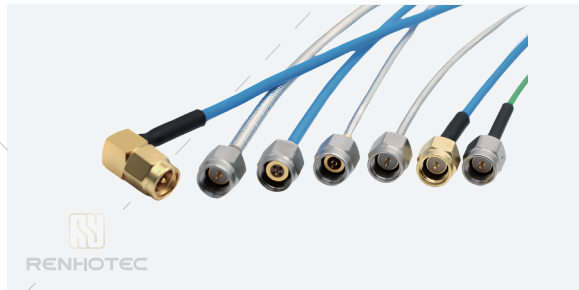
Low-Loss Flexible Interconnection Series



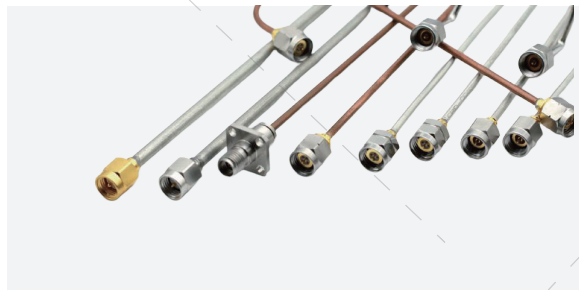
Low-Loss High-Power Cable Series



Test/Armor Cable Series



Semi-Flexible Cable Series



Semi-Rigid Cable Series



CONNECTOR

03.



RF connectors connect coaxial cables, microstrip lines or other RF transmission lines to achieve electrical connections, isolation, or transitions between different types of transmission lines. They are mechatronic products that act as a bridge,

Product Features

- Wide RF range, high reliability; small size
- Superior mechanical and electrical performance
- Customizable non-magnetic series
- Suitable for aviation, aerospace, military, microwave communications, and other fields

Installation Forms

- Panel mounting (2-hole and 4-hole flange), PCB
- PCB mounting, cable mounting (cable connectors), etc.

Connector Types

- 1.0mm, 1.85mm, 2.4mm, 2.92mm, 3.5mm, SMA, SSMA, SMP, SSMP (SMPM), BMA, BNC, TNC, MCX, MMCX, 4.3/10, N, L16, SC, SMB, etc., with interface standard connectors.

End Launch Solderless



Printed Circuit Board



Cable Connector



Removable



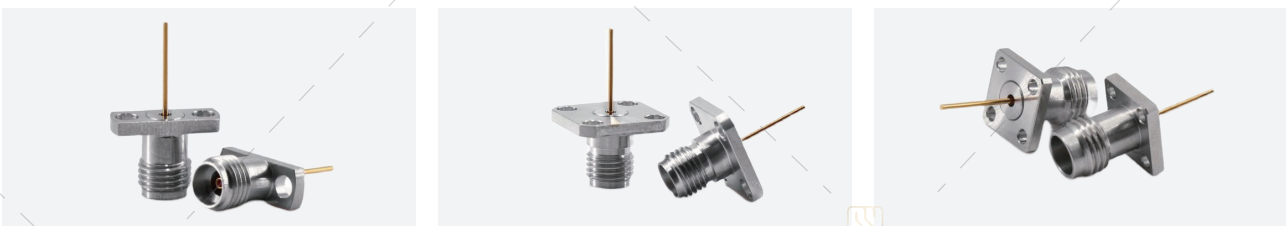
Straight connection



Metal bulkhead

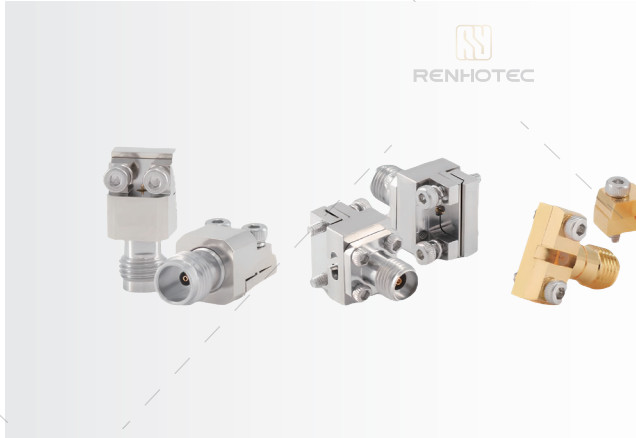


Air-line bulkhead



Dielectric bulkhead





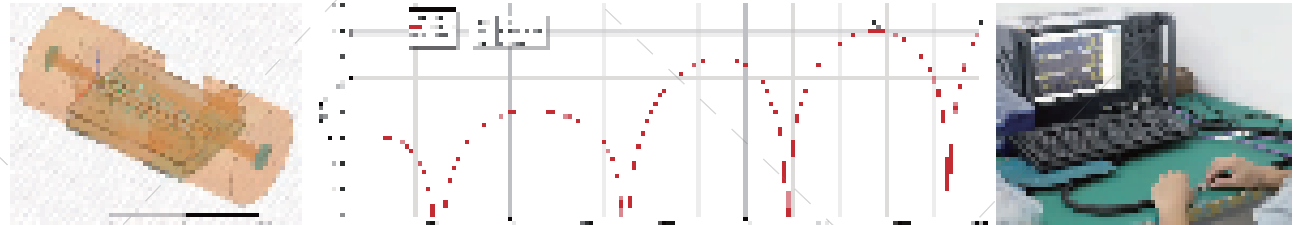
PCB CONNECTOR

04.

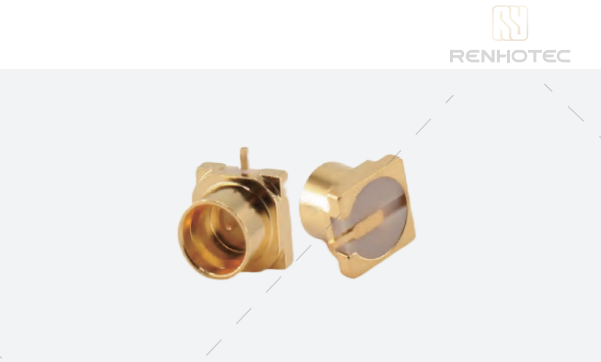
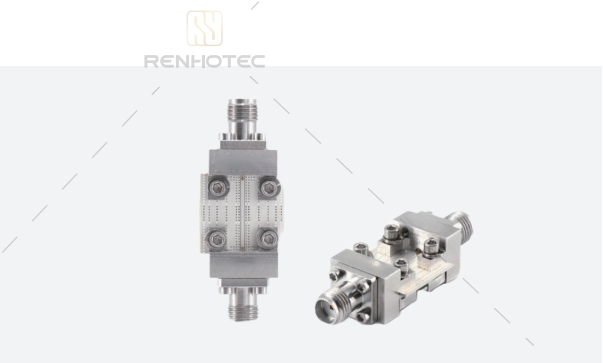
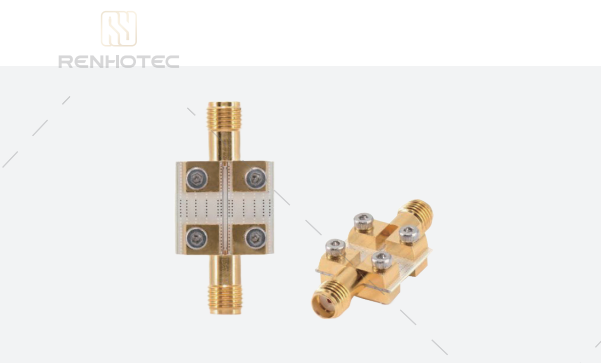
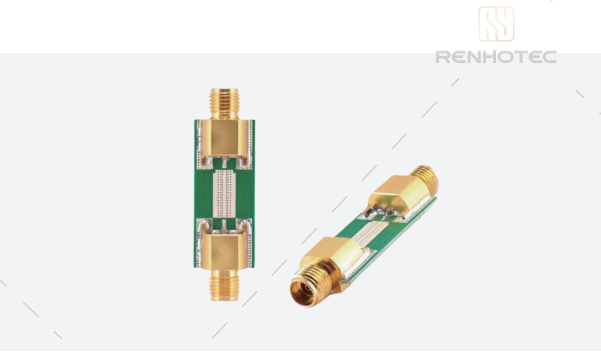


The final performance of PCB connectors on the board is determined jointly by the connectors themselves and the PCB design. Poor PCB design can deteriorate port VSWR. We have designed PCB transition structures based on electromagnetic simulation and conducted on-board testing to maximize connector performance.

PCB Connector Simulation and Testing



On-Board Testing



CABLE CONNECTOR

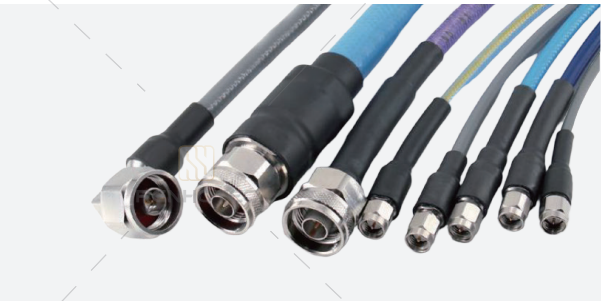
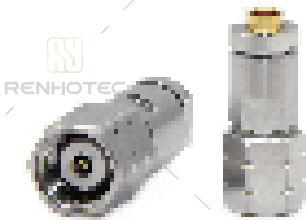
05.



Clamped

Soldered cable connectors feature high reliability, good conductivity, waterproofing, dustproofing, and convenient installation and maintenance.

Installation type



Crimped

Soldered cable connectors feature high reliability, good conductivity, waterproofing, dustproofing, and convenient installation and maintenance.

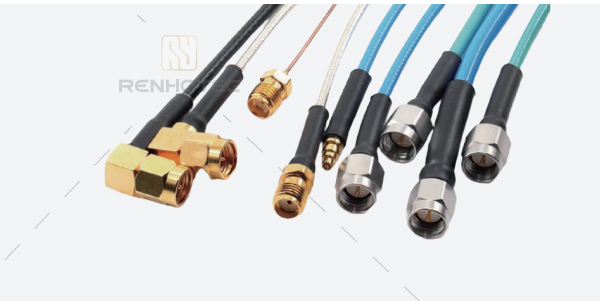
Installation type



Soldered

Soldered cable connectors feature high reliability, good conductivity, waterproofing, dustproofing, and convenient installation and maintenance.

Installation type





ADAPTER

06.



Product Features

- Various connector series can be converted between and within series
- Long service life with repeated use, minimal RF leakage
- Wide RF range, low VSWR, low insertion loss
- Customization supported
- Wide RF range, low VSWR, low insertion loss
- RF adapters are available in N, SMA, TNC, 3.5mm, 2.92mm, 2.4mm, 1.85mm, 1.0mm, BNC, DIN, MCX, MMCX, SC, SMP, APC7, and other connectors.
- The rated frequency range of Renhao weiyue RF adapters is DC~110 GHz

Connector Types	Frequency Range (GHz)	External Conductor Material
1.0mm	DC~110GHz	Stainless steel passivated
1.85mm	DC~65GHz	Stainless steel passivated
SMPM(GPPO)	DC~65GHz	Brass
2.4mm	DC~50GHz	Stainless steel passivated
SMP(GPO)	DC~40GHz	Brass
2.92mm	DC~40GHz	Stainless steel passivated
SSMA	DC~40GHz	Stainless steel passivated
3.5mm	DC~33GHz	Stainless steel passivated
SMA	DC~27GHz	Brass/stainless steel passivated
BMA	DC~22GHz	Stainless steel passivated
N(L16)	DC~18GHz	Brass/stainless steel passivated
QMA	DC~18GHz	Stainless steel passivated
TNC	DC~11GHz	Brass
SC	DC~11GHz	Stainless steel passivated
DIN(4.3/10)	DC~8.3GHz	Brass
DIN(7/16,L29)	DC~8.3GHz	Brass
MCX	DC~6GHz	Brass
MMCX	DC~6GHz	Brass
BNC(Q9)	DC~4GHz	Brass
SMB	DC~4GHz	Brass

ATTENUATOR

07.



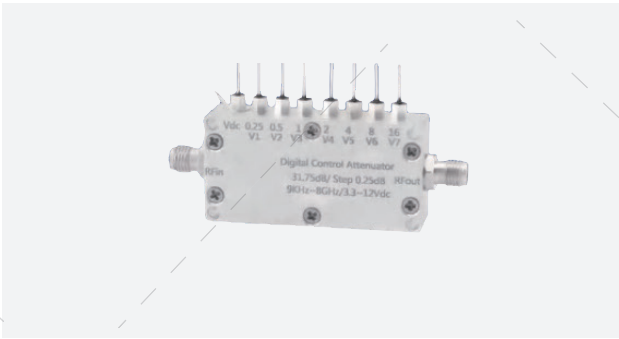
RF coaxial attenuators are devices used to attenuate RF energy, mainly for high-power measurements and improving port matching (VSWR)

Product Features

- Low intermodulation, high power, high reliability
- Wide frequency range, low VSWR
- Flat attenuation value, military-grade quality
- Customization supported

Connector Types	Frequency Range (GHz)	Power (W)	Attenuation Value (dB)
1.85mm	DC~65GHz	2~50	1~60
2.4mm	DC~50GHz	2~50	1~60
2.92mm	DC~40GHz	2~50	1~60
SMA	DC~27GHz	2~100	1~60
BNC	DC~4GHz	2~100	1~60
TNC	DC~11GHz	2~100	1~60
N	DC~18GHz	2~500	1~60
4.3/10	DC~8.3GHz	50~500	1~60
7/16	DC~8.3GHz	50~500	1~60

Programmable Attenuator



A programmable attenuator is a device that can be controlled for attenuation using an external signal. It is suitable for applications requiring flexible attenuation control or automatic control. It usually has small attenuation steps and a wide attenuation range.

Variable Attenuator



A variable attenuator is a mechanical attenuator that can adjust the power level of an RF circuit step by step within a certain frequency range. It is small in size, accurate, stable and reliable, and more importantly, it does not require a power source and can be manually adjusted.

Load

08.



RF loads are devices used to absorb RF energy, mainly for power divider testing. Installed on idle ports, they absorb RF energy, prevent port energy reflection, and ensure the integrity of S-network parameter testing.

Product Features

- Low VSWR, wide frequency band, covering DC~67GHz
- Diverse interfaces, supporting various interface uses
- Wide power range
- Customization supported communications, and other fields

Connector Types	Frequency Range (GHz)	External Conductor Material
SMP (Male/Female)	DC-18GHz	Brass
1.0mm (Male/Female)	DC-110GHz	Stainless steel passivated
1.85mm (Male/Female)	DC-67GHz	Stainless steel passivated
2.4mm (Male/Female)	DC-50GHz	Stainless steel passivated
2.92mm (Male/Female)	DC-40GHz	Stainless steel passivated
3.5mm (Male/Female)	DC-33GHz	Stainless steel passivated
SMA (Male/Female)	DC-27GHz	Brass/stainless steel passivated
BNC (Male/Female)	DC-4GHz	Brass
TNC (Male/Female)	DC-6GHz	Brass
N (Male/Female)	DC-18GHz	Brass/stainless steel passivated
SC (Male/Female)	DC-11GHz	Stainless steel passivated
DIN, 4.3/10 (Male/Female)	DC-8.3GHz	Brass
DIN, 7/16, L29 (Male/Female)	DC-8.3GHz	Brass

ACTIVE
DEVICES

09.



Power Amplifier



Product Features

- Wideband: 10~1000MHz
- Low noise: 1.5dB (typical)
- High IP3: 38 dBm (typical)



Low-Noise Amplifier

- Product Features
- High linearity, high OIP3
 - Coaxial power supply
 - Low power consumption, low noise figure
 - Ultra-wideband, excellent in-band flatness





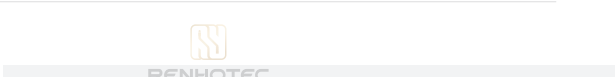
High-Isolation SPDT

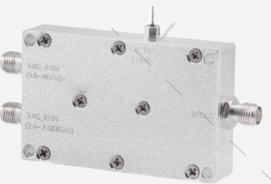
- Product Features
- 8.5GHz /Wide bandwidth: 9KHz~8.5GHz
 - High isolation: >90dB@8.5GHz
 - Integrated TTL/CMos drive, eliminating the need for external drivers



Broadband Amplifier

- Product Features
- Frequency range: 40MHz~2150MHz
 - Suitable for amplifying wired and satellite signals
 - Gain adjustable, built-in adjustable equalizer
 - Output 18V or 13V DC power supply voltage





Dual-Band Amplifier

- Product Features
- 2.4G/5.8G dual-band
 - High gain, low noise figure
 - Excellent out-of-band rejection



PASSIVE
DEVICES

10.



Circulator



Product Features

- A non-reciprocal 3-port device where signals can only propagate in one (circular) direction
- Can be used for signal isolation, isolation, and protection of amplifier output stages



Filter

- Product Features
- Band-pass, band-stop, low-pass
 - Microstrip, cavity, LC, etc.
 - Low insertion loss, high out-of-band rejection
 - Frequency range available: DC~40GHz





Directional Coupler

- Product Features
- Microstrip, cavity, etc.
 - Small phase/amplitude error, high isolation
 - Frequency range available: DC~40GHz





Coupler

- Product Features
- Microstrip, cavity, etc.
 - High directivity, various coupling values available
 - Frequency range available: DC~40GHz

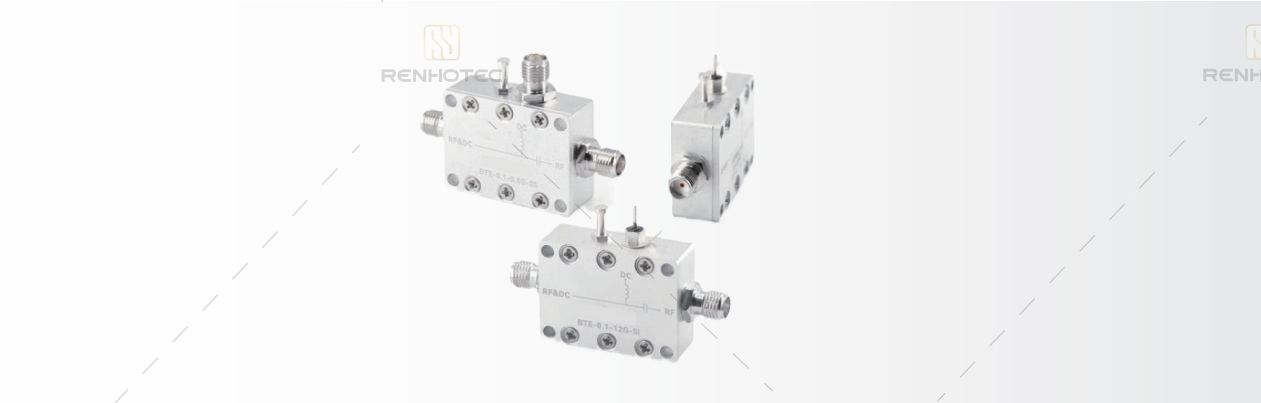




DC Block

- Product Features
- Blocks DC current, passes AC signals
 - Wideband: 9kHz~67GHz
 - Low insertion loss





Bias Tee



Product Features

- Provides Dc bias for RF circuits withoutaffecting RF channel performance
- Low insertion loss, low VSWR
- Wideband: 10MHz-12GHz



Duplexer

Product Features

- Allows the transmission of two or more frequencyband signals simultaneously along their respectivepaths without interference
- Suitable for WIFI dual-band combinations



Test Probe

Product Features

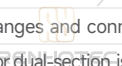
- Cooperates with production fixtures to achieve solderless testing of PCBs and improve productionefficiency
- Switch base, coaxial base, PCB multi-point solderpad, PCB concentric circle test, etc



Isolator

Product Features

- Customizable according to different frequencyranges and connectors
- Coaxial isolator,embedded isolator, band-passisolator,dual-section isolator
- Low insertion loss, high isolation, high power



Calibration Kit

Product Features

- Used for calibration of vector network analyzers
- High precision, high cost-performance ratio



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