

AINFO

Dedicated to Antenna, Waveguide Components and MWRF
Components since 2000.



Company Profile



1

History

Superior
Quality
Since 2000.



2

Scale

2 offices
Chengdu、Beijing



3

Staff

30 Employee
>50% Technical
Engineers



Founded in 2000, AINFO has two branch offices in Beijing, Chengdu

AINFO design and manufacture with high precision machining

Product line:

Antenna – Horn (Broadband, Octave, Multi Octave, Dual Pol. Standard Gain, Open Ended WG Probes, OMT, Conical, Corrugated Conical, Lens, Circular Pol. 100Mhz –325GHz)

- Spiral (Cavity Backed, Helical, 200Mhz – 40GHz)
- Log Periodic (Linear Polarization & Dual Linear Polarization, 30Mhz –6GHz)
- Discone-Type (40Mhz –18GHz)
- Bi-Conical (100Mhz –40GHz)

Waveguide Components: Electric Rectangular / Double Ridge Switch, High Directional Coupler, Ultra High Power Load, World Class Precision Calibration Kit, High Pass / Low Pass / Band Pass Filter / To Coaxial Adapter / OMT / E, H, M Tee / Rotary Joint

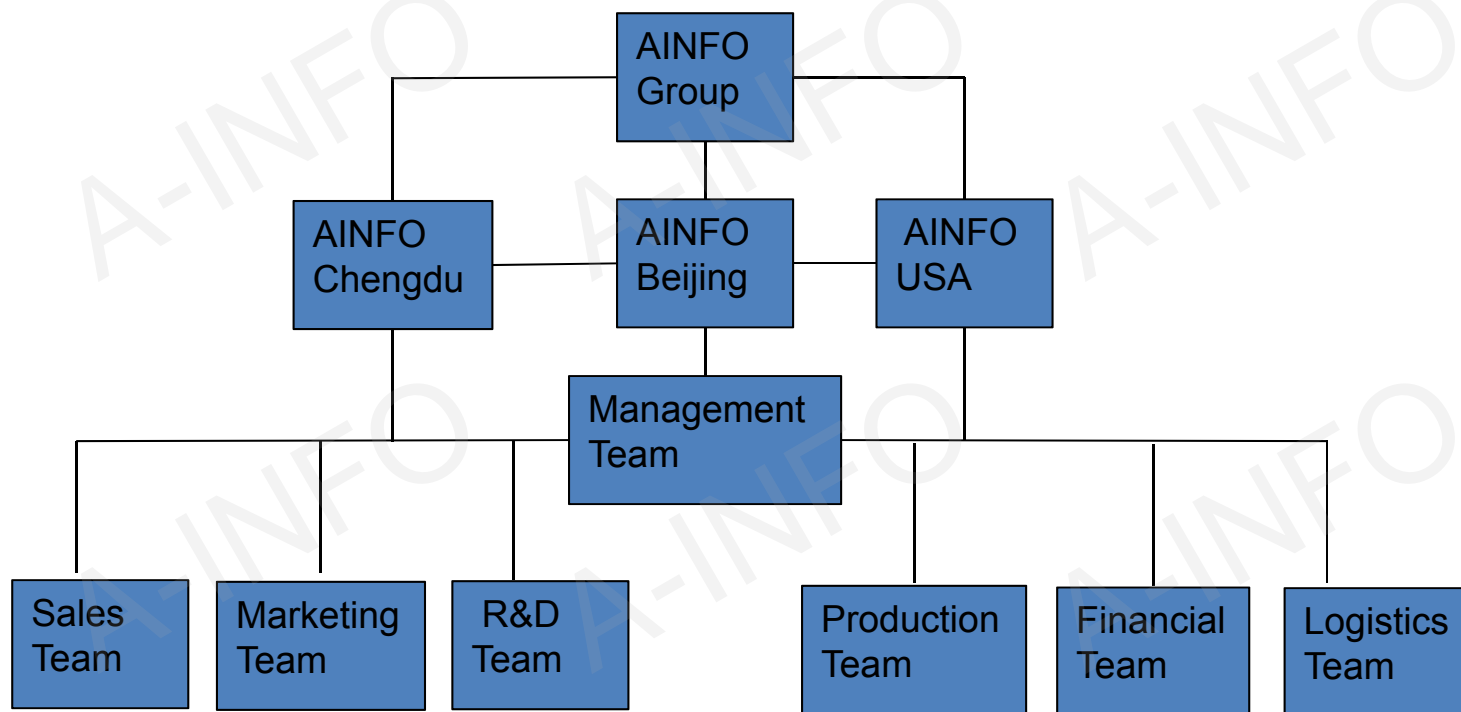
RF WM component: Switch, Power Divider, Coupler, Filter & Hybrid

Application: EMC /EMI Testing, Radar, Telecom, Aviation, R&D, etc.

Quality Control System: ISO 9001: 2008 and GJB9001 certified



Organization Chart



Global sales network



Domestic Customer

Domestic customers: Huawei, CAS, CLP and its laboratories, AVIC, CSIC, CASIC, CASC and its key laboratories. THU, BUAA, SEU, UESTC, Xidian University.





Happy Customers' Comments

AINFO's products are impressive and VSWR is quite excellent particularly.

---Rohde & Schwarz German Headquarter

AINFO's waveguide coupler satisfactory as it is quite stable in power synthesis testing system

---HUAWEI Technology Co., Ltd @ China

We are able to test most of the parameters and have found that they match your specifications/test data very well. We have had experiences with other vendors in the past where the performance of the antenna did not meet the published specifications. Now we are waiting on our customer and if this antenna will meet their requirements.

--- A. H. Systems, Inc. @ USA
[Http://www.AHSystems.com](http://www.AHSystems.com).

This is the same customer who you supplied the LB-OSJ-0460-SF and they were very impressed with the quality. We have an opportunity to become the antenna supplier of choice and I believe that there will be much more business to come.

---Representation Company @ UK

The project requirements changed and a broadband antenna was no longer required. A narrow band omni antenna was used in its place. Your antenna is a very good product with a good price and a high specification. If I have a requirement for such an antenna on another proposal or project I would consider the AINFO PZ-850/P first.

---Intl Sr. System Engineer, PSPC
Communication SYSTEMS/HARRIS CORPORATION @ USA

There is another PO coming with remaining parts. Thank you for your help our Dallas team is very pleased with your company.

---Customer: www.camber.com @ USA



Just to confirm, the parcel from you was delivered here yesterday, and the Waveguide transitions are looking very nice!
Thanks too for the set of catalogues-that's two sets that I now have-I'll pass one onto someone else here.

---Australia Customer

Thanks for the info. I was working with some AINFO antennas yesterday.
for the first time: impressive

---Carleton University@ Canada

Yes the equipment worked fine and we are happy with it. Thanks for informing me about the new products, I will consider them in the future.

Center for excellence in Signal and Image Processing
Department of Electronic and Electrical Engineering

---University of Strathclyde @ UK.

Customer NEXEYA told me that they are happy with the antennas proposed. Thus we should get an order quite soon

---Representation Company.

The VSWR bandwidth is great as well as the price.

---US Based Representation Company

目前客戶的實驗室使用到現在,沒有不滿意的表示.
教授也沒有表示任何的意見. 不像上一次提供台灣廠商的產品,從頭罵到尾.
感謝您們提供的產品. 據我所知,前幾天碰到台灣大學電機工程系的研究生,他們的Horn
Antenna也是使用 貴司的產品.

---Taiwan Representation Company



A-INFO

英联微波

AINFO product is tested at NSI (www.nearfield.com), National Institute of Metrology, A.H. system etc. - strict and famous measurement organizations worldwide, so the technical competitiveness can be ensured internationally. We are glad to announce that the efforts are actually paid off.

AINFO design engineers adopt the most up-to-date design tool and spend tremendous time to optimize the perfect result. When it comes to the manufacturing, AINFO's harsh standard & complete QA process certainly guarantee the superior quality and customer satisfaction.

AINFO works very hard to improve the competitiveness of price and delivery time so that with AINFO, customer can acquire the most cost- effective products with immediate delivery (Items marked " In Stock " on www.ainfoinc.com are actually in stock and ready to be delivered.

Superior quality control, AINFO will run the test one more time before the shipment, so that the quality and looking are checked 3 times before reach our customers' hand

Professional technical support, your RFQ is answered with 24 hours, even the pure customization request is answered no late than 72 hours.



A-INFO 英联微波

Facility: 5 HPC (High Performance Computer)

Keysight, 67GHz Vector Network Analyzer, w/ 110GHz extender option

Keysight: 40GHz VNA / 6GHz VNA

12 square meters high grade clean room

3 Meter test chamber

10 Meter test chamber

Millimeter wave test bench



五轴联动机床





Broadband Horn Antenna



Open Boundary Quad-Ridged Horn Antenna



Corrugated Conical Horn Antenna



Cavity Backed Spiral Antenna



Waveguide VNA Calibration Kits



Waveguide High Directional Coupler



Product Line	Product Name	Frequency (GHz)	Polarization / Directivity
Antenna Products AINFO provide a series of antenna product that make precision measurement very efficient. It covers 30MHz to 325GHz and meet the IEEE 17025 standard. Outstanding characters are: Ultra wide band, excellent VSWR, high Gain, Compact structure & light weight. These horns are ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications. AINFO can customize antenna product according special specification and application, such as: airborne, shipborne, vehicle mounted and aeronautical application.	Broadband Horn	0.1 to 67	Linear / Directional
	Octave Horn	1 to 12	Linear / Directional
	Multi Octave Horn	0.84 to 40	Linear / Directional
	Dual Polarization Horn	1 to 67	Dual Linear / Dual Circular/Directional
	Open Boundary Dual Polarization Quadridge Horn	0.4 to 40	Dual linear / Dual Circular /Directional
	Standard Gain Horn (SGH)	0.32 to 325	Linear / Directional
	Open Ended Waveguide Probes	0.32 to 110	Linear / Directional
	OMT Horn	5 to 110	Dual Linear / Directional
	Conical Horn	8.2 to 110	Linear / Circular / Directional
	Corrugated Horn	8.2 to 110	Linear / Circular / Directional
	Lens Horn	7.9 to 112	Linear / Circular / Directional
	Circular Polarization	1 to 40	Circular / Directional
	Cavity Backed Spiral	0.5 to 40	Circular / Directional
	Conical Log Spiral	0.2 to 10	Circular / Directional
	Helical Spiral	0.1 to 10	Circular / Directional
	Microstrip Array	0.4 to 40	Linear / Circular /Directional
	Microstrip Omni	0.2 to 18	Linear / Omni
	Log Periodic	0.03 to 18	Linear / Dual Linear / Circular / Directional
	Discone - Type	0.04 to 40	Linear / Omni
	Bi-Conical	0.1 to 40	Linear / Omni



WG Component

Frequency:
320MHz to 325 GHz

3 WG Type:
Rectangular, Circular &
Double Ridge

Flange:
Commonly & Precision

Outstanding Character:
Low Insertion Loss &
Low VSWR

VNA WG Calibration Kit: World Class Precision level
Keysight VNA, RS ZV* series
TRL / SSLT
2 Type Flange available: Common / Precision

WG Coaxial Adapter: Right angle, Endlaunch, Double Ridge & High Power

Cross Coupler: W+C-XX / WL+C-XX / WL+Cx-XX

Rectangular High Directional Coupler: WC-XX / WCx-XX / WUCx-XX / WDCx-XX / WDXC-XX

Double Ridge High Directional Coupler: DRWCx-XX / DRWDCx-XX / DRWDXC-XX

Loop Coupler: WHCx-XX / WHHCx-XX / WDHCx-XX

Tee: ET / HT / MT

WG Load (Rectangular & Double Ridge): Precision / Low Power / Low-Medium Power / Medium Power / High Power

WG Short Plate: Rectangular & Double Ridge.

Offset Short Plates: Rectangular & Double Ridge, 1/4 / 1/8 / 3/8

Spacer: Rectangular & Double Ridge, 1/4 & customization w/ MOQ
Flange: Rectangular & Double Ridge, worldwide standard

Electric WG Switch: Rectangular, Double Ridge, E & H plane, position indication

WG Filter: Low Pass / High Pass / Band Pass FULL Band

Rotary Joint: I / U / L Type
Single channel / Dual-way / 3-way

OMT

WG Detector

WG Circulator

WG Isolator

WG Attenuator

Transition: Rectangular to Rectangular / Circular / Double Ridge / Double Ridge to Double Ridge / Special Frequency

Straight / Bend / Twist waveguide: Rectangular / Double Ridge, E & H Plane, 30 / 45 / 60 / 90°



MMRF

Up to
67GHz

PIN Switch:

Power Divider: 0.0002GHz up to 67GHz

Coupler: 1MHz up to 67GHz, NOT just 1, 3.

Filter: Loss Pass, High Pass, Band Pass; Cavity, LC, Suspended Substrate Stripline, Coaxial & Waveguide

Hybrid: 0.5MHz up to 50GHz,

High Precision Connector:

SMA - 27GHz N - 18GHz TNCA - 18GHz SSMA - 40GHz 2.92mm - 40GHz 2.4mm - 50GHz 1.85mm - 65GHzAdapters: *In Series & Between:* N / SMA / 3.5mm (33GHz) / 2.92mm / 2.4mm / TNC / TNCA / 1.85mm / 7mm (18GHz) / Quick Replacement (SMA / N)

Cable Assembly:

Frequency Range: DC – 67GHz

Connector: SMA, type, TNC, BNC, 3.5mm, 2.4mm, 2.92mm, 1.85mm

Option: VNA Amplitude Stable, Phase Stable, Semi-Flexible, Flexible, Low Loss, Semi-Rigid, Armor



①

Antenna

②

Waveguide
Components

③

MWRF
Components

- 1.Horn Antenna
- 2.Spiral Antenna
- 3.Microstrip Antenna
- 4.Log Periodic Antenna
- 5.Discone-Type Antenna
- 6.Bi-conical Antenna



Horn Antenna

Complete Specification

Advantage

Standard Gain Horn Antenna

Multi / Octave Horn Antenna

Ultra Wide Band

Good Directional Diagram

Low VSWR

High Gain

Highly Polarized Isolation

Lens Horn Antenna

Open Ended Waveguide Probes

Conical Horn Antenna

Double Ridge
Broadband Antenna

OMT Horn Antenna

Dual Polarization Horn Antenna

Conical Horn Antenna

Flared Conical Horn Antenna

Open Boundary Horn Antenna



Broadband Horn Antenna

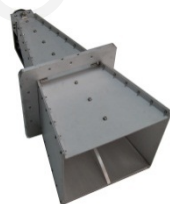
AINFO's LB series' broadband horn antenna is linearly polarized which provide an efficient and low cost way for accurate measurement. With frequency range from 100MHz to 40GHz, ideally suitable for EMI testing, direction finding, surveillance, antenna gain and pattern measurements etc. Outstanding characteristic: ultra wide, high gain, Low VSWR and light weight. AINFO can also provide customization according to customers' need, especially the broadband horn antennas with special gain.



LB-225
0.2-2.5GHz



LB-10180,1-18GHz
With outdoors radome



LB-20180H
2-18GHz
High Gain: 20dB



LB-180400
18-40GHz



LB-7180, cover 700M to 18GHz, In full operating band, its typical VSWR is 2.0. It also has excellent gain flatness and no leakage in pattern measurement. High transmissivity, Low Loss, ultraly Light-weighted radome, excellent for outdoors application is also available. LB-7180, cover 700M to 18GHz, compare w/ ETS 3115 in US and SAS-571 from A.H.System, AINFO's LB-7180-NF is actually w/ better VSWR and flatter gain.

	AINFO Inc.	ETS	Compliance
	AINFO Inc.	A.H. Systems, Inc.	Compliance
Model	LB-7180-NF	SAS-571	
Frequency Range	700MHz-18GHz	700MHz-18GHz	Same
	2.0 Typ.	1.6: 1 (3.5: 1 max.)	AINFO' s better
VSWR	6.6919 @700MHz	8.8: 1@ 700MHz	
Power	300 Watts CW	300 Watts CW	Same
Polarization	Linear	Linear	Same
Radiation Pattern	Uni-directional	directional	Same
	2.68 dBi at 700 MHz	1.36dBi at 700MHz	Same
Gain	5.65 dBi at 800 MHz	4.70dBi at 800MHz	
Average Gain	12 dB Typ	1.4 to 15dBi	AINFO' s better
	E-Plane=11.82~95.24deg.	E-Plane= 48deg.	
3 dB Beam-width:	H - Plane=10.57~75.12deg.	H-Plane= 30deg.	
Front to Back Radiation	22.0 Typ.	25dB typ.	Almost Same
Impedance	50 Ohms	50 Ohms	Same
Connector	"N" Female	"N" (Female)	Same
Length	244mm	242mm	A.H.' s smaller
Height of Aperture	230mm	204mm	
Width	160mm	140mm	
Material Construction	6061-T6 Aluminum	Aluminum	Same
Finish	Al passivation		
Mounting holes	1/4 - 20 thread	1/4" x20 thread	Same
Weight	1.5kg	1.59kg	AINFO' s lighter
mounting	1/4 - 20 thread		Same
Weight	1.5kg	1.8kg	AINFO's lighter



Corrugated Horn Antenna

With the frequency range from 8.2 to 110 GHz, it is widely used for radar, satellite communication and surveillance

Features :

- > Very symmetrical radiation pattern (axial symmetry)
- > Very low cross polarization
- > Low side lobe :
in the frequency range of whole waveguide up to -25dB(typical)
narrowband up to -40dB(typical)
- > Low return loss
- > Linear, dual linear and circular polarizations available.
- > Square or circular waveguide output with relevant waveguide coaxial adapter for choices.
- > Optional standard gain: 15dB, 20dB, 25dB
- > Customizable



LB-CH-15 (59-67GHz)

Linear polarization, Left-hand/right-hand circular polarization
High Gain : 25dB



LB-CH-90-20 (8.2-12.4GHz)

Linear polarization, high gain : 25dB
NASA purchased products !

Lens Horn Antenna

Application

- MVDS (Multipoint Video Distribution System)
- LMDS (Local Multipoint distribution service)
- Traffic Control System
- Secure Communications System
- Electro - Magnetic Compatibility (EMC) Measurement
- Compact / Mobile System
- Point to Point Radio Link
- Vehicle Anti-collision Radar
- Traffic Tolling System
- Short Range Radar
- Radiation Monitoring System
- Dual Polarized System

Feature

Up to 112GHz

Linear, Dual & Circular Polarization

Rectangular / Circular Feed

Optional Protective Membrane

Choice of Mounting Configuration

Choice of WG to coaxial adapter:

www.ainfoinc.com/en/waveguide-component/ WG to Coaxial Adapter



LB-CL-28-C20
(35-35.2G)
Gain: 28dB



Dual Polarization Quad-Ridged Horn Antenna

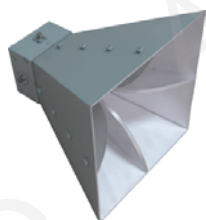
Quad – Ridged Horn antenna from 0.4 – 40G, w/ options to switch to Linear Polarization, Left – Handed Circular Polarization, Right – Handed Circular Polarization, Dual Circular Polarization & 4 Polarization switchable. Application: EMC, EMI, OAT, Satellite Communication & Surveillance.

Feature:

- > Ultra wide band from 400MHz to 40GHz
- > Low VSWR in full band: 1.5:1Typ.

- > Excellent Gain Flatness & Radiation Pattern
- > Good Port Isolation: 35dB(typical)

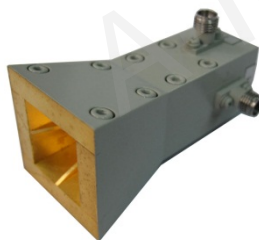
- > Polarization Option: Vertical Linear, Horizontally Linear, Left – Handed Circular, Right - Handed Circular, Dual Circular Polarization & 4 Polarization Switchable



LB-SJ-10100



LB-SJ-20180



LB-SJ-180400



LB-OSJ-0460

Open Boundary Qua-ridged Horn Antennas

Ultra wideband, from 400MHz to 40GHz, low VSWR and good performance, compact size, low sensitivity of phase center with change of frequency.

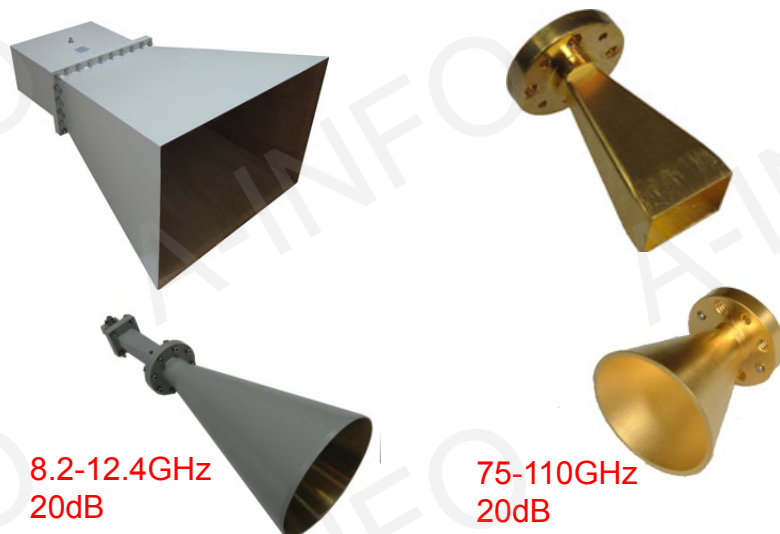
0.7~10GHz Dual Polarization Horn antenna Cross Reference (Ainfo, Schwarzbeck & ETS)			
P/N	LB-OSJ-07100 (Chengdu Ainfo Inc.)	CTIA 0710 (Schwarzbeck)	3164-08 (ETS)
Type	Open Boundary	Open Boundary	Open Boundary
Freq. Range(GHz)	0.7-10.0	0.7 -10.0	0.7 -10.0
		Although indicate starting from 0.7, but the VSWR at 0.7GHz is very very high and basically, it is useless.	
Polarization	Dual Linear	Dual Linear	Linear or Circular Polarization (With Hybrid)
Gain(dBi)	4 ~ 15 (full bandwidth)	5-13 (1 - 10GHz)	4 ~ 13.3 (full bandwidth)
	4.10 @ 700MHz	2.57 @ 700MHz	4dB typ. (700MHz)
VSWR	2.0 typ.	2.0 typ.	2.0 typ.
	2.5568 @ 700MHz	5.5 @ 700MHz	3.0 @ 700MHz
		Not very flat, high @0.7Ghz	
3dB Beamwidth(°)	120-15	40 -80 (E-Plane) 40 -140 (H-Plane)	
Port to Port Isolation(dB)	20dB Min	Typ. > 30dB	23dB Min
		no curve	
Cross Polarization Isolation(dB)	18dB Min	Typ. > 25dB	20dB Min.
Impedance(Ohms)	50	50	50
Input Power (W)	50	50 (cont.) 100 (intermitt.)	
Connector	SMA-Female Or N-Female	SMA-Female	SMA-Female
Size(mm) (L x W x H)	310 x 310 x 411	200 x 235 x235	360.7 x x 360.7 x 365.8
Weight(Kg)	5.0 approx.	0.84	5.1
Material	Al	Al	Al



Standard Gain Horn Antenna

SGH antenna all adopted linear polarization, making the measurement more efficient. With wide range from 320MHz to 220GHz. Widely used in pretty much every single section of testing & measurement. High Gain, Low VSWR, Compact Structure & light weight.

High Transmissivity, Low Loss, Ultra Light Antenna Radome. Specifically designed for excellent performance.



Octave/ Multi Octave

Octave: 1 to 12GHz

Multi Octave: 0.84 to 40GHz

Widely used in testing & measurement. High Gain, Low VSWR, Compact Structure & light weight.

High Transmissivity, Low Loss, Ultra Light Antenna Radome. Specifically designed for excellent performance.





Octave Horn Antennas 1 GHz - 8 GHz

[Home](#) / [Products](#) / [Horn Antennas](#) / Octave Horn Antennas

Image
Coming Soon

SAS-590-10

1 GHz - 2 GHz

This Octave horn antenna has medium gain and low VSWR; excellent for both immunity and emissions testing.

[details](#)

SAS-590-11

2 GHz - 4 GHz

Linearly polarized octave horn antenna.

[details](#)

SAS-590-12

4 GHz - 8 GHz

High power handling capability makes this Octave horn antenna excellent for immunity testing.

[details](#)

The Following P/N are LB-OH octave horn antennas that A.H.Systems Inc. purchased from AINFO as SAS-590 series:

LB-OH-650-15-C-NF
1GHz-2GHz, 15dB

LB-OH-320-15-C-NF
2GHz-4GHz, 15dB

LB-OH-159-15-C-NF
4GHz-8GHz, 15dB



Open ended waveguide probe

Application: Near Field Measurement
Frequency: 320MHz to 110GHz
Special Protection Radome for High Frequency



Circular Polarization Horn Antenna

Circular Polarization is very efficient to discover electromagnetic radiation source

Conical Octave Horn from 1 to 40GHz W/ Left - Hand & Right - Hand Circular Polarization



Antenna Accessories

1.Radome

Foam Type: High Transmissivity, Low Attenuation, Ultra Light. Specifically designed For AINFO Antenna. Waterproof and dust proof of course

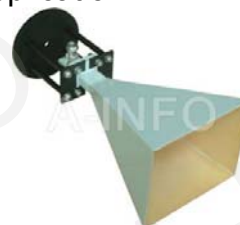


Aviation Type: Aviation Material, Strong Structure suitable for Special Aviation Application. Of course, Ultra light and Min. effect on the performance



2.Mounting Bracket

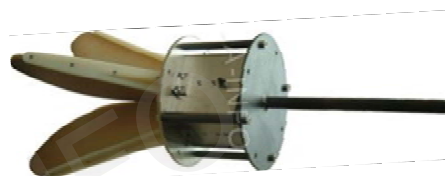
Round Type suitable for C Type SGH, Installation Plate Application



L Type suitable for C Type SGH, Tripod Application



Suitable for open boundary quad-ridged horn antennas.



3.Tripod

Rigid, Compact Structure, w/ 3 extension up to 2100Cm, Suitable for All AINFO antenna

WOODEN Type available



4.Carrying case

Applicable for All AINFO antenna. Safe, Easy to carry, convenient for storage & Specially designed JUST for you!



Spiral Antenna

1. Cavity Backed Spiral Antenna: 0.5-40GHz.

AINFO LX series cavity backed spirals is broadband designed for EMC, Surveillance, Direction Finding, Telemetry, and Airborne application.

AINFO Spiral Antenna can be used as separate component or as broadband feed for antenna array.

AINFO LX series Spiral Antenna presents Excellent Impedance Match and Radiation Pattern over the broad operating band in a compact and lightweight package.

Ideally suited for AMPLITUDE MATCHING, PHASE MATCHING. The unit-to-unit uniformity and frequency independent performance is perfect for airborne monitoring receiving systems.

Available in **RHCP** or **LHCP**. Designed to operate in harsh environment and meet the extreme of the Surroundings Specification.

5 pcs as a group, amplitude consistency: $\pm 1\text{dB}$

5 pcs as a group, phase equalization: $\pm 10^\circ$

2. Log spiral Antenna: 0.2-10GHz

>> Thanks to the characteristic of circular polarization, it can discover the radiation source of electromagnetic frequency fast

>> Band is wide up to 10 octaves

>> Outer spiral lines are able to better lose heat



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Specialty

Cavity Backed Spiral



LX-520 (0.5-2.0GHz)



LX-20180 (2-18GHz)

Phase Matching
1-18G, Group 6
2-18G, Group 5



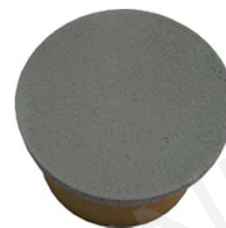
LX-180400 (18-40GHz)

Radome and Bracket

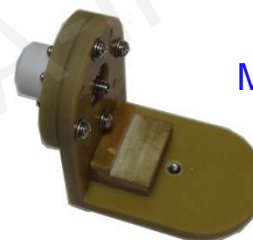
Radome (For Different Application)



Aviation Application



Outdoor Application



Mounting Bracket (L)

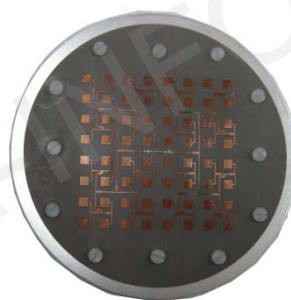
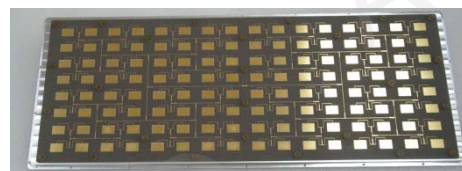


Microstrip Antenna

Frequency: 0.4-40GHz

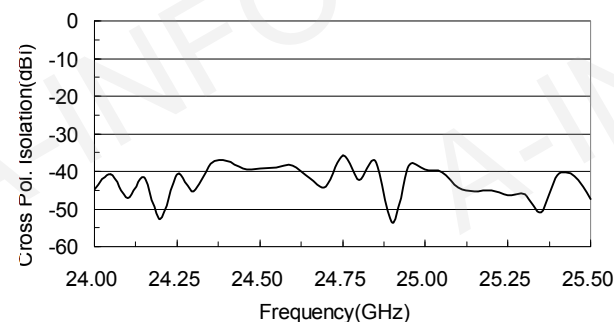
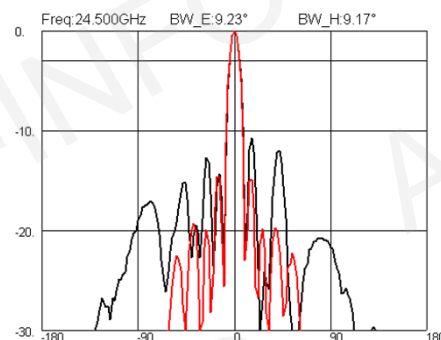
Feature

- (1) Small size, light weight, High Gain, Low VSWR
- (2) Narrow Bandwise
- (3) Electrical diversity. The biggest radiation direction of microstrip elements with deferent designs can be adjusted from broadside to end side, easily accessible for all kinds of polarizations.
- (4) Easy Integration. It can be integrated with active devices and circuit board.

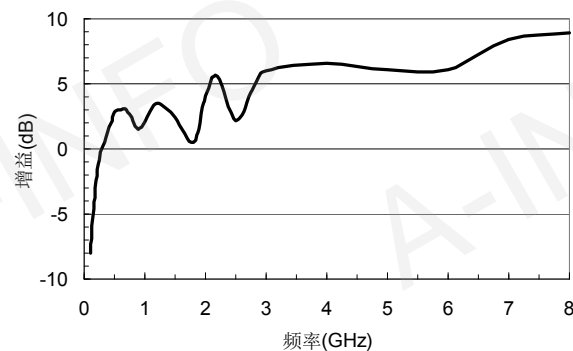


MMA-240255

Frequency(GHz)	24.0-25.5
VSWR	1.5 Typ. 2.5 Max.
Gain(dB)	22.5 Typ.
3dB Beam Width(°)	9 Typ.
Connector	SMA-50K
Size(mm)	Φ120 x 8.8 (w/o connector)
Weight (Kg)	0.2



Microstrip Omni Antenna



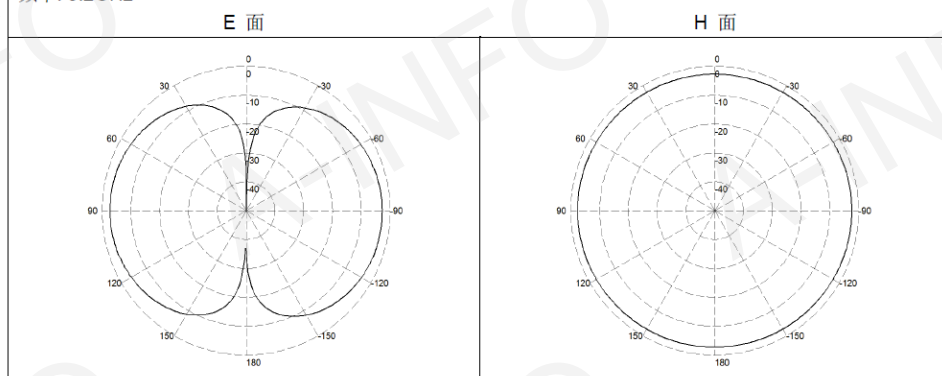
Micro-strip Omni Antenna
Frequency: 0.2-18GHz (Split into several)



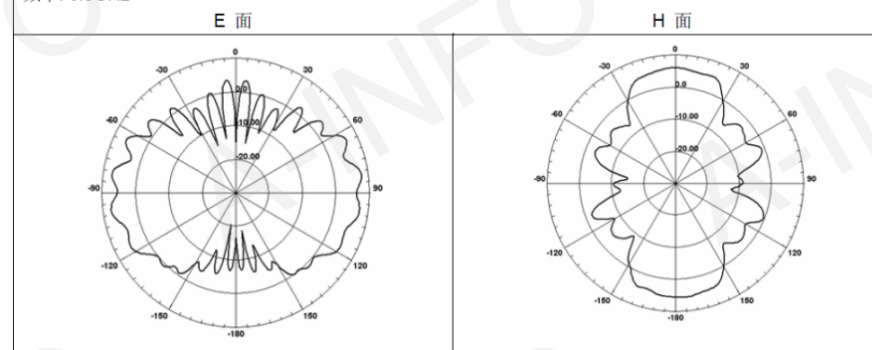
Ultra wideband, Omnidirectional & Miniaturize

★AINFO made the best of its technology advantage to miniaturize (d:334mm) for ultra wideband starting low frequency from 200MHz to 6GHz. Meanwhile, maintaining relatively high gain and low VSWR. (Typical:2, Max: 5 for low frequency range)

频率: 0.2GHz



频率: 6.0GHz



Log Periodic Antenna

Frequency: 30MHz-18GHz, Linear & Dual Linear Polarization

AINFO DS series antenna is light-weighted, good gain log periodic designed to transmit and receive signal over broadband. Characterized by high front-to-back ratio, High quality aluminum material & professional construction design will provide years of trouble-free operation.

ALL DS antennas are SINGLE Linearly & DUAL Linearly polarized. Supplied in compact kit , easy for packaging & transportation w/ minimum tool required.

Standard tripod will be provided according to customers' requirement, w/ universal joint.

Wooden tripod is also available for superior performance.

Linear Polarization



DUAL Linear Polarization
0.1-4GHz



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DS-3300

Log Periodic Antenna DS3300's frequency range is 30MHz-3GHz, commonly used for EMC. Moreover, all specs of DS-3300 achieve the same level as Schwarzbeck: VULB9163, STLP9128D & STLP9128E.



30MHz - 3.0GHz Log Periodic antenna Cross Reference (Ainfo & Schwarzbeck)

P/N	DS-3300 (A-INFO)	VULB 9163 (Schwarzbeck)	STLP 9128 D (Schwarzbeck)	STLP 9128 E (Schwarzbeck)	Comments
Freq. Range(GHz)	0.03 -3.0	0.03 -3.0	0.08-3.0(nominal) 0.07 -4.0(usable)	0.08-1.7 (nominal) 0.08 -2.7 (usable)	AINFO's broader
Polarization	Linear Pol.	Linear Pol.	Linear Pol.	Linear Pol.	Same
Gain(dBi)	-10.0 - 6.0 Typ.	6.4dB +/-1.2dB	9.0+/-3.0 Typ.	-14.0 - 7.0 Typ.	Almost Same
VSWR	10.0 Typ. @ 30 -50MHz 2.0 Typ. @ 50 -100MHz 1.5 Typ./2.0Max @ 100 - 3000MHz	15.0 Typ. @30- 50MHz 1.5 Typ. @50 -100MHz 1.5:1 Typ./ 2.0:1 Max. @ 100- 3000MHz.	1.6 Typ. @F<3.0GHz	1.5 Typ.	Almost Same
3dB Beamwidth(°)	See pattern	E-Plane: 45 - 65deg. Typ.@ f>150MHz ≈78deg. Typ.@ f<150MHz H-Plane: 90 - 120deg. Typ.@ f>150MHz.	E-Plane: 60 -75 H-Plane: 50-65	E-Plane: 47 -87 H-Plane: 41 - 107	
Connector	N-Female	N-Type, Female	N-Female 7/16-Female	N-Female 7/16-Female	Same
Power (W)	300 CW	200W (intermitt.) 100W (cont.) (AINFO's could bear much more power)	1kW (const.)@ N-Female 1.5kW (intermitt.)@ N-Female 2kW (const.) @ 7/16-Female 3kW (intermitt.) @7/16-Female	1kW (const.)@ N-Female 1.5kW (intermitt.)@ N-Female 2kW (const.) @ 7/16-Female 3kW (intermitt.) @7/16-Female	Schwarzbeck could bear much more power
Weight(Kg)	3.5 Around	3.1Kg	8.1	9.8	Schwarzbeck's much heavier
Size(mm)	1720 x 1450	1500X 910(1240)X 620 mm	1480x 1480 x 1340	1500 x 1740 x 1400	Almost Same



Discone -Type Antenna

Frequency:40MHz-40GHz

Discone-type antenna is broadband omni-directional linearly polarized antenna. It has a mounting plate to be used on both vehicle and on the ground, which can also be installed at the end of the metal tube. Our discone-type antenna is designed to transmit and receive signal. The typical gain is 1dBi on the greatest radiation direction. By adding a LNA, it can be used as an active antenna, and the gain can be increased to larger than 10dBi, but it is changed to a received only antenna.



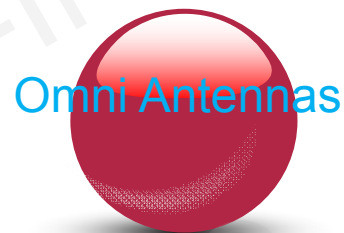
40-500MHz,300W



250-1000MHz,300W



1-18GHz,80W



Omni Antennas

Bi-conical Antenna



0.1-3GHz,100W



3-40GHz,30W

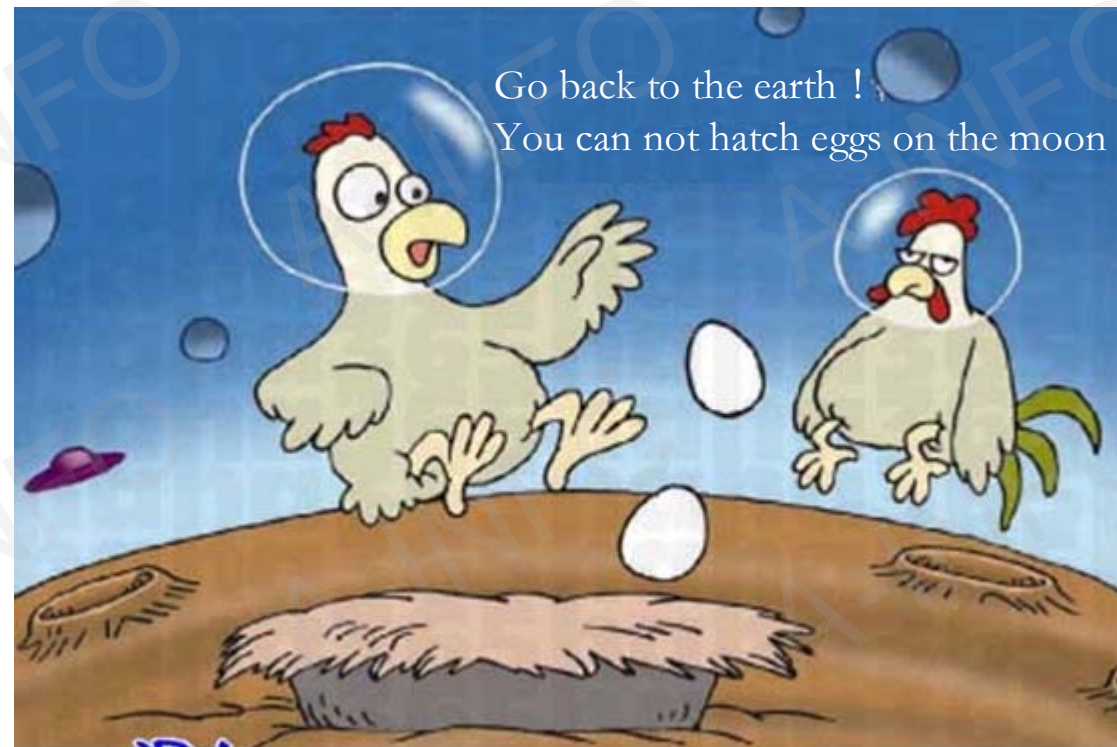


2-30GHz,80W



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Questions



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① Antenna

② Waveguide Components

③ MWRF components

1.VNA Calibration Kits

2.Direction Coupler

3.Waveguide Load

4.Waveguide Switch

5.Waveguide Filter

6.Waveguide Coaxial Adapter



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VNA WG Calibration Kits

The CLKA1 Series Calibration Kits by AINFO are designed to provide accurate TRL (Thru-Reflect-Line) calibration for VNA for measurement and it can support waveguide from BJ9(WR975)to BJ900(WR10) covering frequency range from 0.75 to 110GHz. CLKA1 Series Calibration Kits provide all the necessary components for an accurate TRL calibration. In addition to TRL calibration, CLKA1 Series can also be applied to SSLT(Short-Short-Load Thru) and offset load calibration containing all mainstream algorithm. All kit components have both standard flange and precision flange for selection (APF series, designed specially to ensure the precise alignment and improve test accuracy and repeatability). All our products are not only designed by ourselves but also manufactured with high precision machining processes. Plus, it can be shipped to you ASAP your order and payment are received as we keep big stocking.

With our own advantages in technology and processes, the CLKA1 series of waveguide Calibration Kits reached the top level of the industry. Compared with similar series of Keysight, there is only a little difference on the third digit after the decimal point so it is replaceable directly.

AINFO's software of the calibration kits is completely compatible with R&S, Keysight, Anritsu and other 41 VNAs.



The Waveguide components made up of CLKA1 waveguide calibration kits

Quantity	Description	Notes
2	Waveguide Coaxial Adapter	Right angle, end launch and other adapters.
1	Waveguide Precision Fixed Load	-
1	Waveguide Precision Sliding Load	Options excluded in the standard types
1	Waveguide Spacer	-
1	Waveguide Short Plates	-
1	Waveguide Calibration Section*	Options excluded in the standard types
1~3	Screw Package	Different quantity for each P/N
1	Positional Screw Package	Only used for AINFO's APF precision flanges
1	Allen Driver	-
1	Calibration Software	Options excluded in the standard types
1	Aluminum Alloy carrying Case	-

Notes:

* The calibration kits are suggested to be used for the following frequency range: BJ320(WR28), BJ400(WR22), BJ500(WR19), BJ620(WR15), BJ740(WR12), BJ900(WR10).

Keysight P/N	A-INFO P/N	Maury P/N	A-INFO P/N
X11644A	90CLKA1-7RFRF_PB	7005E	AINFO can provide equivalent components for all main parts of the CLKA1 calibration kits with same performance.
P11644A	62CLKA1-7RFRF_P0	7005G	
K11644A	42CLKA1-3.5RFRF_P0	7005M	
R11644A	28CLKA1-1_P0	7005H	
Q11644A	22CLKA1-1_P0		
U11644A	19CLKA1-1_P0		
V11644A	15CLKA1-1_P0		
W11644A	10CLKA1-1_P0		



Waveguide Coaxial Adapter

Waveguide coaxial adapter is a indispensable component in the microwave testing, microwave devices and microwave systems as well as microwave projects.

AINFO's waveguide coaxial adapters include rectangular waveguide /double ridge waveguide and there are right angle and end launch to feed power. **We also offer products with high frequency and high precision testing class products.**

The types of the coaxial adapters cover N, TNC, 7/16、7mm、SMA、3.5mm、2.92mm、2.4mm and 1.85mm and so on.

Frequency: 0.32~65GHz P/N: BJ3 (WR2300)to BJ620(WR15).

It is characteristic of wide bandwidth, complete specifications and low VSWR and insertion loss, etc.



WR2300 Waveguide Coaxial Adapter

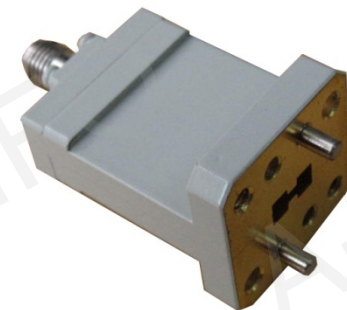


WR15 Waveguide Coaxial Adapter



WRD250
1000W

High Power Double Ridge
Waveguide Coaxial Adapter



WRD180 Double Ridge Waveguide
Coaxial Adapter



Waveguide Directional Coupler

AINFO's waveguide coupler is typical of high directionality and small coupling degree with many different couplings for choice. Meanwhile, its coupling response is even and the VSWR of main and secondary linear is low. There is N type, TNC, 7/16, 7mm, SMA, 3.5mm, 2.92mm, 2.4mm and 1.85mm available to choose.

Frequency: 0.75~110GHz P/N: BJ9 (WR975) to BJ900(WR10).

It is widely used to testing, sampling and testing of high frequency and microwave power feeding system, radar, microwave feeding system and telecommunication, navigation and satellite telecommunication devices.

Product types:

Waveguide Cross Coupler

Waveguide High Directional Coupler

Waveguide Loop Coupler

Double Ridge Waveguide High Directional Coupler.

Waveguide Cross Coupler



With frequency scope from 0.75 - 40GHz, P/N of standard rectangular waveguide from BJ9 to BJ320, the VSWR of the typical main line is 1.05 and the secondary line is 1.1. Other specifications is as follows: the coupling degree: 30~60dB for options, directivity: 18dB and coupling degree: 0.7dB, frequency response: 1dB in the full waveguide bandwidth. The basic material of the waveguide high directional coupler is copper and aluminum while the surface treatment methods: silver, gold and nickel plating and passivation and conductive oxidation among other processing ways. The following specifications can all be customized as the customer asked: size, flange, types of the adapters and materials and surface treatment as well as electrical specifications.



W+C-XX 型



WL+C-XX 型



WL+C_x-XX 型

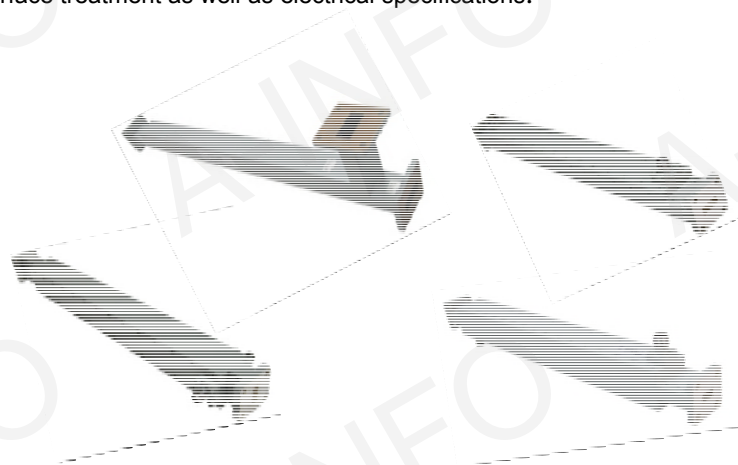



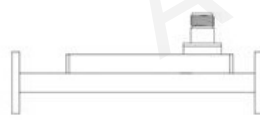
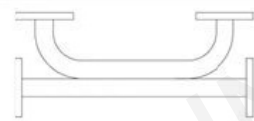
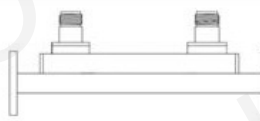
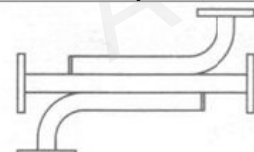

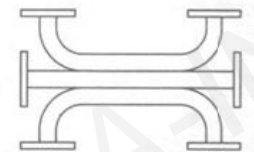
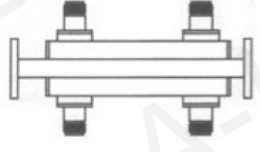
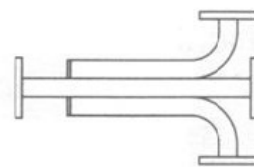
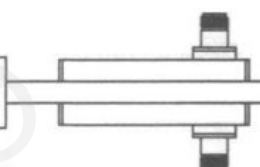
Waveguide High Directional Coupler



With frequency from 0.75 - 110GHz, P/N of standard rectangular waveguide from BJ9 to BJ900, the typical VSWR of the main line is 1.15 and that of the secondary line 1.5 max. in the full waveguide bandwidth. Other features are as follows: the coupling degree: 3~60dB for options, minimal directionality: 30dB, coupling degree: 0.9dB and frequency response: 0.7dB.

The basic materials of the waveguide high directional copper and aluminum. The surface treatment methods : silver, gold and nickel plating and passivation and conductive oxidation among other processing methods. The following can all be done as the customer required: size, flanges, types of the adapters and materials and surface treatment as well as electrical specifications.

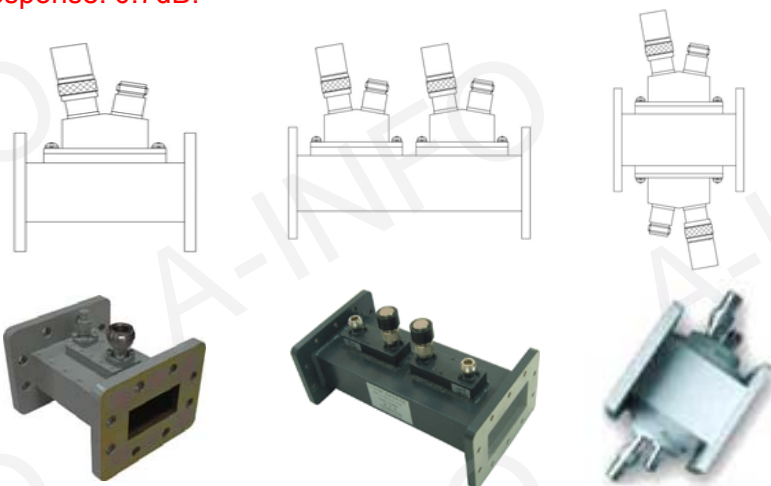


	
WC Series	WCx Series
Three Ports Directional Coupler	
	
WUC Series	WUCx Series
Four Ports Dual Coupler	
	
WDXC Series	WDXCx Series
Six Ports Dual Coupler	
	
WDUC Series	WDUCx Series
Same Directional Coupled Power Divider	
	
WDC Series	WDCx Series



Waveguide Loop Coupler

Frequency range 1.7 - 40GHz, its standard waveguide covers BJ22 to BJ320 in full bandwidth, the specifications include the following items: main standing VSWR:1.15, secondary VSWR:1.5, coupling degree :30~60dB optional, minimal directivity:15dB, coupling accuracy:0.9dB, frequency response: 0.7dB.



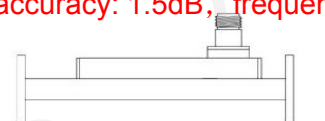
WHCx-XX type

WHHCx-XX type

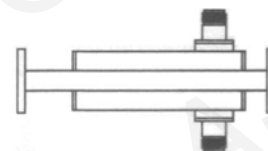
WDHCx-XX type

Double Ridge Waveguide High Directional Coupler

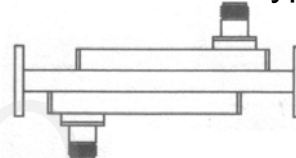
From 2 - 40GHz, double ridge waveguide from WRD200 to WRD180, in full bandwidth of waveguide, specifications are as follows: main standing VSWR:1.25, secondary VSWR:1.5, coupling degree 10~50dB optional, directivity:25dB, coupling accuracy: 1.5dB, frequency response:1.5dB.



DRWCx-XX type



DRWDCx-XX type



DRWDXCx-XX type

180DRWCK the first product of this kind in China!



Waveguide Load

The WPL is requisite for the end devices of waveguide testing and waveguide feed system. AINFO provides series of WPL products with complete specs and outstanding performance. There is high precision calibration glass waveguide load with **VSWR as low as 1.015**. AINFO has waveguide load of small, medium and high frequency with rectangular and double ridge types.

The absorber of the waveguide employs somatic absorbing materials, greatly improving the matching and absorption properties with **VSWR 1.2 max**. AINFO's waveguide load has frequency range from 0.75 to 110GHz(~330GHz) and the power can be up to 8KW(~200KW).

The basic materials of the waveguide high directional coupler are copper, aluminum and stainless steel while the surface treatment methods include silver, gold and nickel plating and passivation and conductive oxidation among other processing ways. We can do custom waveguide load power according to customer's requirements: size, flange, types of the adapters and materials and surface treatment as well as electrical specifications

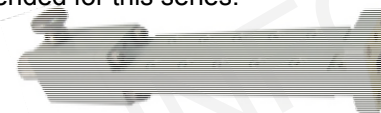
Precision Power Load Low Power Load

The WPL series low power waveguide are precision with VSWR terminations suited to a wide variety of precision laboratory applications. They can be used for full bandwidth, one-port calibration and full band two-port, isolation calibration. A-INFO Precision Flange(APF) is available for this series.



Precision Sliding Power Load

The WSL series waveguide sliding terminations are precision, Low power within 30W and low VSWR 1.015 suited to a wide variety of precision laboratory applications. They can be used for full band one-port calibration and full two-port, isolation calibration. The effect of sliding the termination can get a greater accuracy than that achieved by a fixed load. A-INFO Precision Flange(APF) is recommended for this series.



Low-medium power Load

With power from 10-100W, WMPL series Medium Power Terminations are convection-cooled, designed to handle medium power levels. Typical applications include system or test bench set-ups and as moderate power dummy loads.



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Medium Power Load

WMPL, Power scope:100W-2KW, low VSWR and stable electrical property by using absorbing materials of high power.



High Power Load

WHPL up to 10KW, suitable for testing, optimizing and maintenance of high power device and system.



Double Ridge Waveguide Power Load

Covering 2-40GHz, including low, medium and high power load, the highest power load :5.5KW, Max. VAWR:1.2.



Waveguide Filter

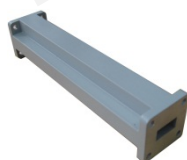
AINFO has series of standard rectangular waveguide filter of high performance. Waveguide band pass filter, waveguide low pass filter and waveguide high pass has frequency range from 2.6~110GHz and standard waveguide from BJ32 to BJ900.

In full bandwidth, the specifications are as per: typical VSWR:1.2, pass-band Insertion Loss :0.3dB, the stop- band rejection ratio up to over 60dB.

The basic materials of the waveguide filter are copper, aluminum and stainless steel. The surface treatment methods: silver, gold and nickel plating and passivation and conductive oxidation among other processing ways. We can do custom waveguide load power according to customer's requirements: size, flange, types of the adapters and materials and surface treatment as well as electrical specifications



Low Pass Filter



High Pass Filter



Band Pass Filter

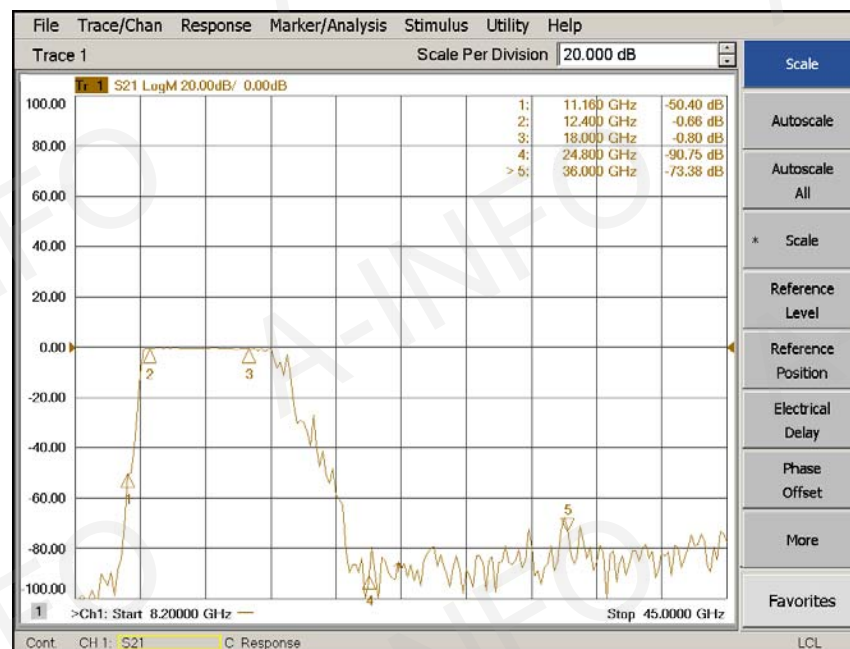
Specialties : Full Band Filter

★AINFO specially produced full band filter with second harmonic high rejection ratio as high as over 60dB

Typical pass-band VSWR:1.3 and pass-band Insertion Loss:0.3dB.

Three types: waveguide low pass filter, waveguide high pass filter, waveguide band pass filter.

BJ120(WR75), BJ140(WR62), BJ180(WR51), BJ220(WR42 with all frequency about to release.



Specialty : High Performance Filter

【94GHz Band Pass Filter】AINFO succeeded in customizing the high performance filter of W band for Tsinghua
VSWR: 1.5 max(in full band) (13.8dB@89GHz)
Insertion loss: 2.48dB@89GHz (in full band)
Rejection ratio: 62dB@89GHz, 42dB@102GHz

Examples of W waveband:

W(75-110GHz) has the features of little attenuation, high resolution and ultra wide bandwidth. 94GHz as atmospheric window band has attracted wide attention. There have been much study and a great number of applications about it.

It has been used widely for millimeter wave radar, fire control radar and quasi-optical system, Quasi-optical mode converter. Other applications are as follows: electro optic conversion system, security imaging on the airport and station and foreign substance detection as well as traffic collision avoidance system, W band radiation plan and astrosurveillance, cloud testing antenna carried by satellite.

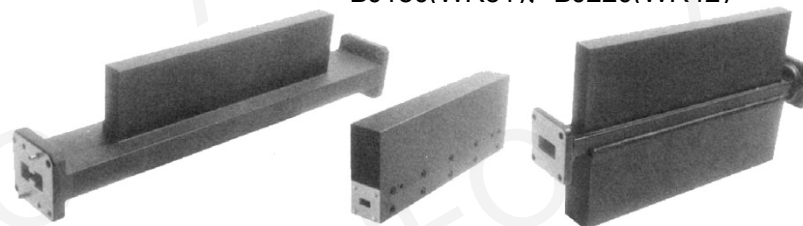


Specialty : High Power Filter

Frequency: 2.6-40GHz
Ultra high average power: starting from 200W
Low VSWR: 1.5 max.(in full band)
low insertion loss: 0.8dB max.(in full band)
Second harmonic high rejection: 40dB
Operating mode: nonreflective

AINFO is about to release:

Double ridge waveguide: WRD650 (6-18GHz)
Rectangular waveguide: BJ120(WR75), BJ140(WR62)
BJ180(WR51), BJ220(WR42)



Electric Waveguide Switch

Electrical waveguide switch can change the Signal path in waveguide transmission system.

There are E and H plane waveguide switch according to its structure and rectangular and double ridge in terms of waveguide types from BJ32-BJ900 with frequency range from 2.60-110 GHz.

VSWR :1.15 max., Insertion loss: 0.5dB max., switching speed: 100ms Max. in full bandwidth.

Features:

- 1, Imported and internationally universal aviation six core socket MS3112E10-6P
- 2, Position Indicator function
- 3, Switching speed: 100ms Max.
- 4, Driving voltage: $27V \pm 3V$
- 5, Waveguide Switch switching on H plane
- 6, E plane DPDT available with rectangular and double ridge waveguide.

The basic materials of the waveguide switch are copper, aluminum and stainless steel while the surface treatment methods include silver, gold and nickel plating, passivation and conductive oxidation among other processing ways. Besides, We can do custom waveguide load power according to customer's requirements in terms of size, flange, types of the adapters and materials and surface treatment as well as electrical specifications

750DRWESMD



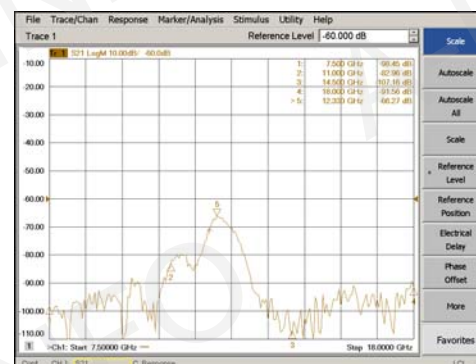
750DRWHSMD



62WESMD



750DRWHSMD, Isolation>60dB
(Port3-Port2) @Position1(Pos. 1)

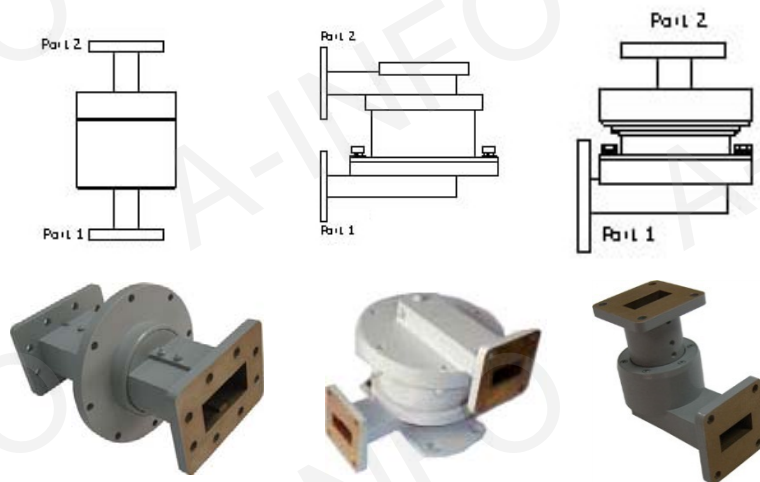


750DRWHSMD, Isolation>90dB
(Port3-Port2) @Position2(Pos. 2)



Waveguide Rotary Joint

Waveguide rotary joint is mainly used for connecting the fixed and the rotary parts of radar feed system. There are I type, U type and L type in terms of structure and single and double rotary joints according to the passage composition. The frequency ranges from 2.6GHz to 40GHz and waveguide cover BJ32 to BJ320. In less than 10% waveguide bandwidth, the typical VSWR is 1.2 and the low insertion loss is 0.3dB



Waveguide OMT

Waveguide OMT can separate two different polarization wave to be used for separating or combining dual polarization antennas.

There are three ports for the OMT: straight output port, side wall coupling port and public port. Round waveguide OMT's public port is round waveguide port and so is the port to connect it. It can connect the standard rectangular waveguide with the help of the rectangular and circular waveguide transition. The output on the right angle direction of the side wall is standard rectangular port, which can output in parallel with main waveguide by adding bend waveguide. Polarization direction is orthotropic for straight through input port and coupling port of side wall.

Frequency range: 0.75-40GHz, operating band: 20%, VSWR: 1.5 max.
port isolation: 30dB.



Waveguide TEE

AINFO has rolled out series of ET, HT and Magic TEE of high performance with frequency range from 0.32-110GHz and standard rectangular waveguide from BJ3 to BJ900.

ET can have reverse output of the signals input in E port at the both ends of the balancing arms at the same amplitude. Vice versa.

HT can output the same extent signals input at the balancing arms on H port with same direction. It can be converged to output the signals on H port with same amplitude towards the same direction as which is input at the arms of balancing.

Connected H or E arms of magic TEE with power load, it can work as power divider or combiner that has the following features: 1) asymmetry of the balancing arms. 2) signals input on the E arm will output on the balancing arms while isolating the H arm; On the contrary, the signals input on H arms can be output in the same extent from the balancing arms while E arms is isolated 3) signal input from either end of the balancing arms can be output equally from E arms and H port while the counterpart end is isolated.

Therefore, Magic TEE is characteristic of isolation the other end, neighboring 3dB coupling and complete match. It is applied for the in the many fields, such as microwave fields, mono pulse radar and differential comparator and radar sending and receiving switch in particular, power distribution and combination, mixer and phase shifter and so on.

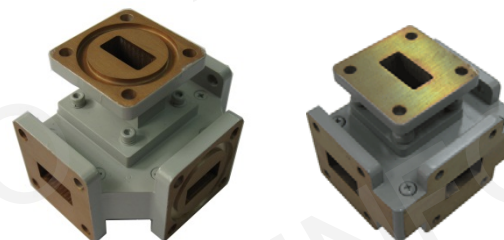
ET : VSWR:1.5, asymmetry: 0.25dB, in full band.



HT: VSWR:1.5, asymmetry:0.25dB, in full band.



Magic TEE: VSWR:1.5(E plane), VSWR:1.3(H plane), Asymmetry: 0.4dB, Isolation 30dB in full bandwidth.

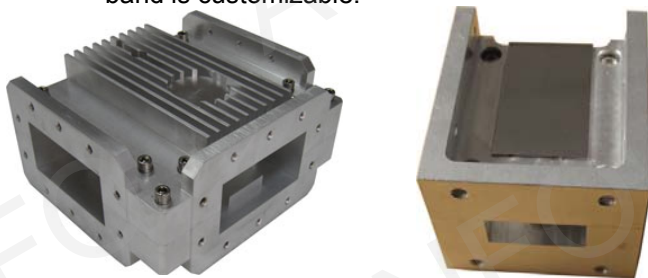


Waveguide Circulator

We can offer customized Full-band waveguide circulator with high power.

Its function is to control the transmission of electromagnetic wave **along one ring direction**, a kind of unidirectional energy transmission. Besides it can also connect different parts of the waveguide devices and link parts and system to make them operate independently while isolating from each other.

AINFO's series of standard rectangular waveguide circulator cover the frequency range from 1.13-110GHz and waveguide from BJ14 to BJ900 with other features as per: typical VSWR: 1.20 in full band typical insertion loss: 0.3dB and typical isolation: 20dB. Circulator of high power in full band is customizable.



Waveguide Isolator

Customizable for full-band waveguide isolator with high power.

Waveguide isolator ensures the transfer of electromagnetic wave **along only one specific direction** while isolating the opposite direction, a kind of unidirectional transfer of energy transmission. Besides, it can connect different parts of the waveguide devices and also link parts and system to make them operate independently while isolating from each other. Plus, **it mainly work as a role to reduce the reflective signal's effect on the system.**

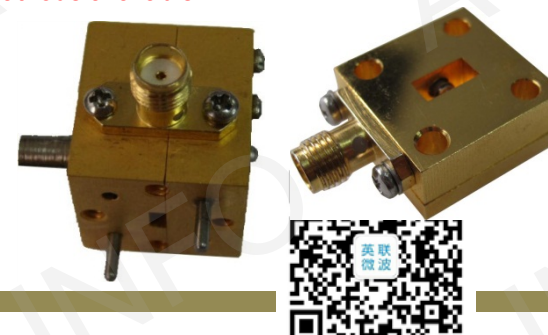
We have series of standard waveguide isolator of high performance with frequency from 1.13-110GHz, typical waveguide from BJ14 to BJ900. Other specifications are as follows: typical VSWR: 1.20 in full band, typical insertion loss: 0.3dB, typical isolation: 20dB, Isolator of high power in full band customizable.



Waveguide Filter

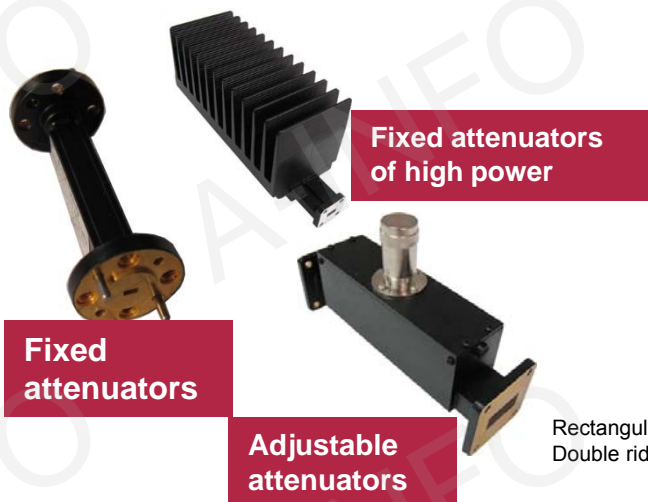
Waveguide filter is able to detect some useful information by identifying wave, wave oscillation and signals. **Output end is standard rectangular waveguide while video output is SMA/BNC usually.** With frequency range from 2.6 to 110GHz, it is widely used for aerospace, national defense and commercial wireless application including equipment and meters, power monitoring and direct testing receiver. We can also see the applications in the fields of communication of high frequency, radar, communication of satellite and point to point radio communication and telecommunication as well as data link and research.

It is highly sensible up to 50-600mV/m. Plus, high power circulator in full band is customizable. The features are as per: anti-burn power: 5-100W, respond speed: 2uS, the voltage output: anode and cathode available.



Waveguide Attenuators

The various attenuators offered by AINFO, include **fixed attenuator and adjustable ones**. Its **frequency ranges from 1.12-110GHz** and standard waveguide consists of BJ14 to BJ900 while typical VSWR is 1.10 in full band. The attenuation is typical of 3/6/10/20/30dB. The attenuator with high power from 10W to 20KW can be customized and it is also customizable for attenuation during 3-80dB specifically.



Waveguide transition

A-INFO's waveguide transitions cover the frequency range up to 170 GHz. It allows RF transit fast from one waveguide to another. Transitions are available in standard lengths as well as specific lengths according to the requirements of customers.

Availabilities: 1. Rectangular to rectangular; 2. Rectangular to rectangular-special frequency; 3. Double ridge to rectangular; 4. Double ridge to double ridge; 5. Rectangular to circular.

A series of products are all designed and manufactured by ourselves. It is characteristic of low VSWR and insertion loss and various flanges for choices and materials include aluminum and copper. We are also able to provide the design of waveguide transition cross frequency of high power.

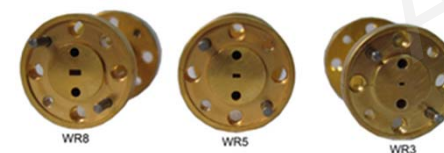
Precision double ridge to rectangular waveguide transition can connect double ridge waveguide and rectangular waveguide and other types featured with low insertion loss and high match, which is fit for the use in laboratories to mount and test double ridge and rectangular components and equipment. We only list the waveguide transition with overlap frequency on website and welcome to send us the RFQ if any requirement for the for the second time and the third time harmonic wave of double ridge with basic frequency



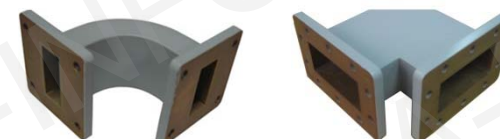
Straight/Bend/Twist

They are the basic element of the waveguide feed system including **rectangular and double ridge waveguide**. Other specifications are as follows: frequency range: 0.75-325GHz, standard waveguide: BJ9(WR975) to BJ2600(WR3).

It is typical of low VSWR:1.05 and insertion loss: 0.1dB



E plane & H plane, the bending: 90°, The types of bending: radius bend waveguide and miter bend waveguide.



Twist waveguide, twisting: 30/45/60/90(°), typical VSWR: 1.10 (in full band), typical insertion loss: 0.2dB (in full band)



Waveguide Short Plates and Spacer

Waveguide short plate are designed to terminate round or rectangular waveguide connectors at the mating plane. They are used to establish a reference plane in systems and in making loss measurements. They are flat face/flat plane shorts that cover frequencies from 0.75GHz to 110.0GHz. There are waveguide 1/4、1/8 and 3/8 wavelength offset short plates with 180° phase difference. It can reduce the number of the flanges and keep same current flow and the current stability in the calibration processes.

Those in rectangular guide are nominally 1/8 and 3/8 wavelength offset at a frequency near the waveguide band center. These will not be the exact band center as the frequency is chosen to equalize the phase differences at the band edges.

There are rectangular and double ridge waveguide short plats available. We also can make custom shorting distance as a special order. Please send us your inquiry and discuss your needs.



Short Plates



Offset Short Plates



Double Ridge Offset Plates

Waveguide spacer of different thickness includes rectangular and double ridge waveguide that is used for connecting the waveguide flanges. 1/4 wavelength spacer is commonly applied for correcting the waveguide equipment commonly called as one offset (one bias) or 1/4 wavelength spacer used for connecting of the power load, fixed power load or the port of the analyzer.



Waveguide spacer



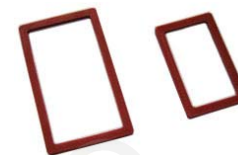
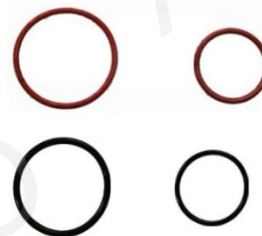
Double ridge waveguide spacer

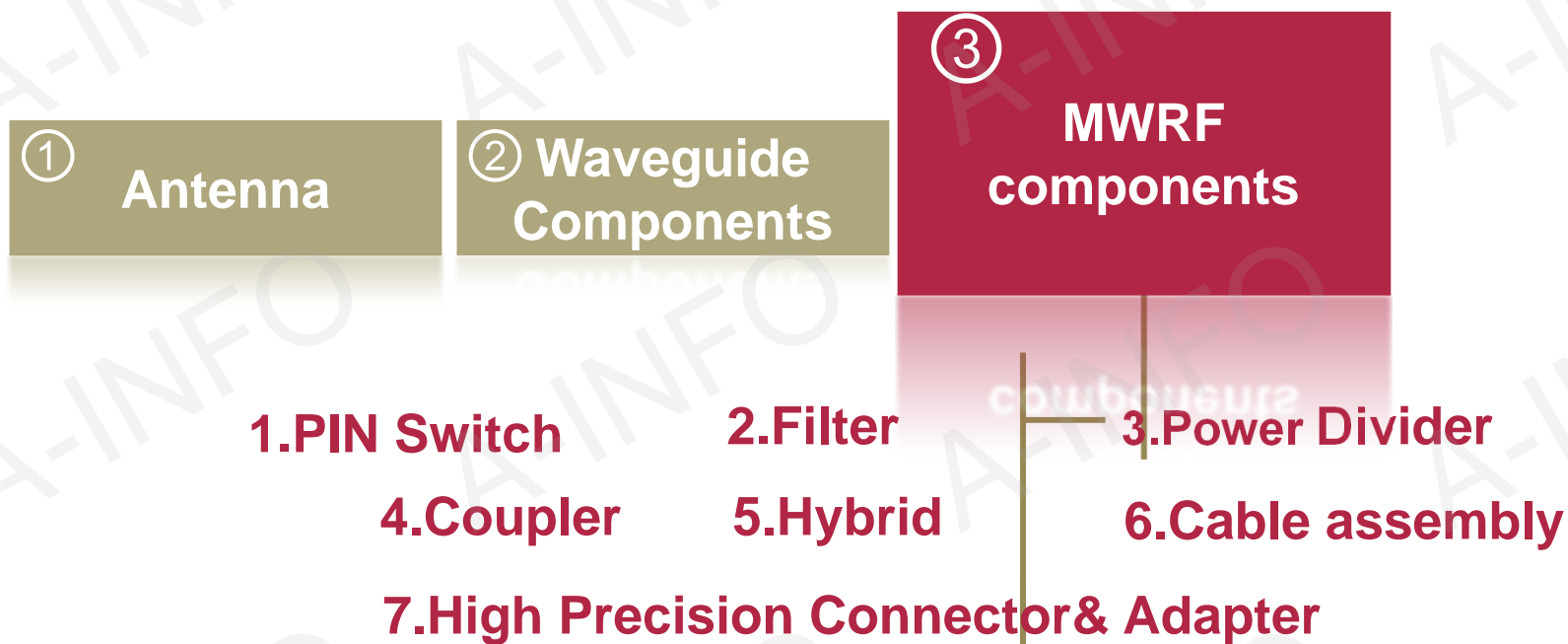
Waveguide Flange and Gasket

AINFO's waveguide flanges and gasket can cover the frequency range from 0.32 to 220 GHz range and waveguide from WR2300 to WR5. There are precision flange, flat flange and sealing flanges for choices. Flanges with choke and O-ring groove are also available. All flanges are can be made in the materials: brass, aluminum, or copper. Special flanges can be designed and manufactured according to customer's demands..



Series of standard gaskets available are widely applied for the all kinds of the standard waveguide flanges and sealing flanges. There are round and rectangular types with materials of silicon rubber R and conductive silicon rubber CR. Size is also customizable.



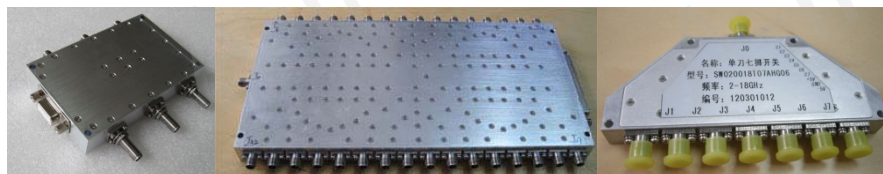


Coaxial Switch

Frequency up to 65GHz.

Coaxial switch is used for microwave circuit switch, which is controlled by computer programming or voltage. It is applicable for communication, 3G, digital transmission, radar, military communication, TV broadcasting, RF MW research and so on.

- 1) Reflective and absorptive switch
- 2) SPST, SP3T, SP4T (according to the points of output and input).
- 3) Common and high power switch ($\geq 1W$)(according to power handling).



Reflective Switch

- 1.SPST
- 2.SP2T
- 3.SP3T
- 4.SP4T
- 5.SP5T
- 6.SP6T
- 7.SP7T
- 8.SP8T

Absorptive Switch

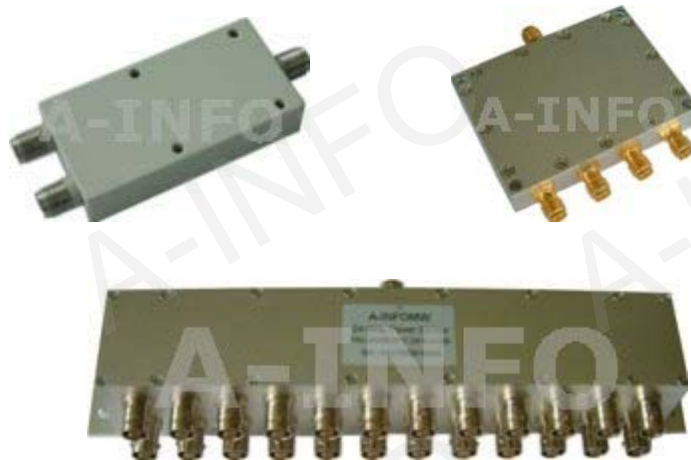
- 1.SPST
- 2.SP2T
- 3.SP3T
- 4.SP4T
- 5.SP5T
- 6.SP6T
- 7.SP7T
- 8.SP8T
- 9.SP12T
- 10.SP16T



Power Divider

Coaxial power divider is used for dividing one way signal into multi-channel signals, acting as average distribution of power. The common types are 2way, 3way and 4 way and may ways.

AINFO has both common and ultra wide band power divider.



Common Power Divider

1. 2 way 0°
2. 2 way 90°
3. 2 way 180°
4. 2 way 0°
5. 3 way 0°
6. 4 way 0°
7. 5 way 0°
8. 6 way 0°
9. 7 way 0°
10. 8 way 0°
11. 10 way 0°
12. 12 way 0°
13. 13 way 0°
14. 16 way 0°
15. 24 way 0°

Ultra Wideband power divider

1. 2 way 0°
2. 4 way 0°
3. 8 way 0°
4. 16 way 0°



Coaxial Coupler

Applicable for monitoring the incidence and reflection signals value in the microwave system

Couplers types:

1. Universal Coupler
2. Ultra Wideband Coupler
3. Dual Directional Coupler



Filter

Applied for selecting signals in microwave system, general types: band pass, low pass and high pass as well as band rejection filter, etc.

All specifications customizable according to the requirements of the customer with frequency range: DC-40GHz.

1. Band Pass Filter
 - A. Cavity band pass filter
 - B. LC band pass filter
 - C. Suspension line band pass filter
 - D. Coaxial waveguide filter

2. Low Pass Filter(LC, suspension line, tubular filter)

- A. LC low pass filter
- B. Suspension line low pass filter
- C. Tubular low pass filter

3. Suspension line high pass filter

4. Cavity band rejection filter



Bridge

Bridge, a kind of component for testing resistance, capacitance and inductance
Narrow bridge and broad bridge

1. Narrowband bridge

- (1) 90 ° lumped parameter Bridge
- (2) 180 ° lumped parameter Bridge

2. Broadband bridge

- (1) 90 ° bridge
- (2) 180 ° bridge



Cable Assembly

AINFO's cable assembly has frequency range: DC-3G / 6G / 12G / 18G / 26.5G / 40G / 50G / 67G. Other specifications are as follows: low insertion loss, low VSWR, high reliability, impedance: 50ohm, working temperature: -40°C ~ +85 °C, armor solution available, length customizable, various connectors available.

The Application for armor solution

- ◆ Testing Laboratory
- ◆ Long Distance Field Testing
- ◆ Wet Environment Testing
- ◆ Military Equipment



High Precision Connector and Adapters

RF Coaxial Adapters

N type In-Series adapters in stock
 SMA In-Series adapters in stock
 3.5mm In-Series adapters in stock
 2.92mm In-series adapters in stock
 2.4mm In-series adapters in stock
 1.85mm In-series adapters in stock
 TNC In-series adapters in stock
 TNCA In-series adapters in stock
 N-3.5mm In-series adapters in stock
 N-2.92mm In-series adapters in stock
 N-2.4mm In-series adapters in stock
 N-TNC In-series adapters in stock
 N-TNCA In-series adapters in stock
 N-SMA In-series adapters in stock
 3.5mm-2.92mm In-series adapters in stock
 3.5mm-2.4mm In-series adapters in stock
 3.5mm-SMA In-series adapters in stock
 3.5mm-1.85mm In-series adapters in stock
 2.92mm-2.4mm In-series adapters in stock
 2.92mm-1.85mm In-series adapters in stock
 2.92mm-SMA In-series adapters in stock
 2.4mm-1.85mm In-series adapters in stock
 2.4mm-SMA In-series adapters in stock
 TNC-SMA In-series adapters in stock
 TNCA-SMA In-series adapters in stock
 7 mm In-series adapters in stock
 Quick plug adapter

RF coaxial connectors

SMA connectors
 2.92mm connectors
 2.4mm connectors
 1.85mm connectors
 N type connectors
 SSMA connectors
 TNCA connectors

Adapters for testing:

1. 3.5mm In-series adapter (F-M)
- 3.5mm-2.92mm between series adapters (N-3.5 Between-Series adapter)
2. 2.92mm in-series adapters (F-M)
- 3.5mm-2.92mm Between Series Adapters.
- 2.92mm-2.4mm Between Series Adapters.
- 2.92mm-SMA Between Series adapters.
- N-2.92mm Between Series Adapters.
3. 2.4mm In-Series adapters (F-M)
- 2.92mm-2.4mm Between Series adapters.
- 3.5 mm-2.4 mm Between Series adapters.
- 2.4 mm-SMA mm Between Series adapters.
- N-2.4 mm Between Series Adapters.



Time for questions



“Hey, there must be problems with your robot program.”



A-INFO

英联微波



Win-win
Cooperation

Thanks

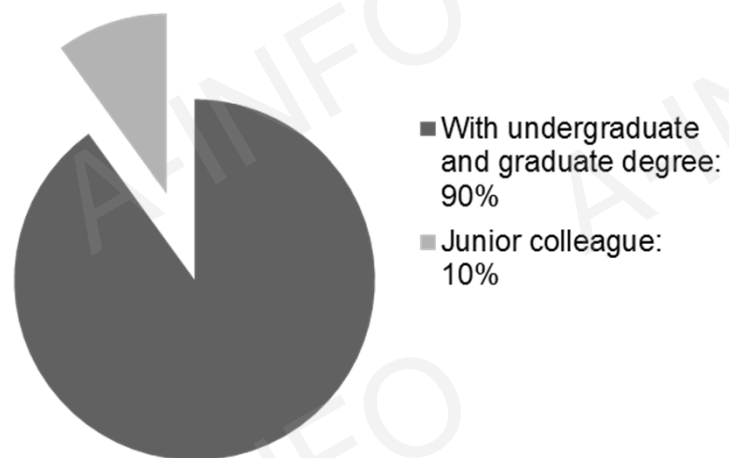


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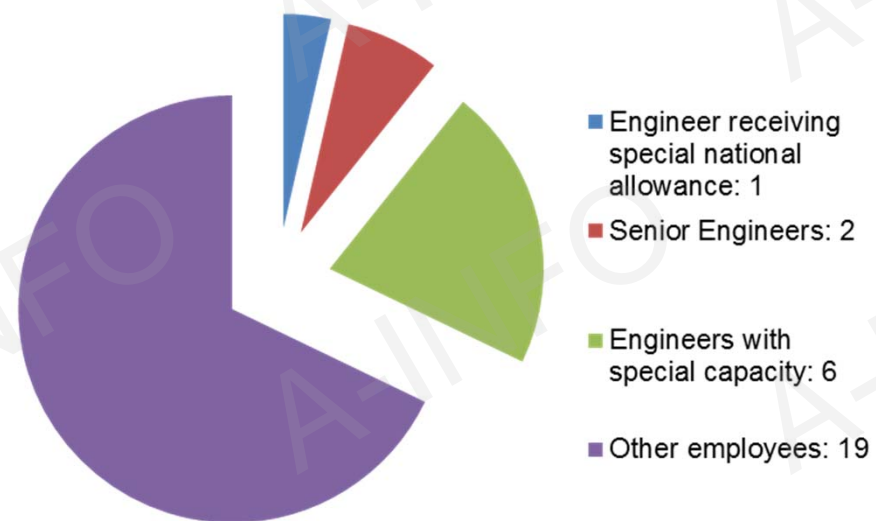
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Employees' educational degree



Employees with undergraduate and graduate degree



[Return](#)

