TOPTECH

MICROWAVE

INTRODUCTION OF ANTENNAS 2022

With our strong R&D team and service team, we are dedicated to bring the best antenna technology to you.

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About Us

Since its inception in 2015, Toptech has been served as a leading antennas & waveguide products supplier in China. With its experienced engineering team, Toptech is committed to provide high quality and competitive COTS and customized products to global market.

The company engaged in developing, producing and marketing a wide range of antennas, antenna feeds and waveguide products for commercial, defense and medical applications. The antennas and waveguide products can cover a extremely wide frequency range from 0.03GHz to 500GHz, 0.32GHz to 325GHz respectively.

Toptech excel in rapid prototyping and customization. Its high quality services guaranteed by the complete production line, advanced test equipment and logistics system. With its rich proven experience and impressive growth, the company has launched many cutting-edge product, and established a business partnership with worldwide market leading OEMs and government agencies.

Core Competitiveness

For test and measurement, Toptech offers Standard Gain Horn Antennas, Broadband Horn Antennas, High-Performance Corrugated Feed Horn Antennas, and an assortment of other antennas and waveguide equipment. All of our products can assist in finishing tests and measurements with high accuracy.

For Electronic Warfare, Monitoring and Direction Finding, Toptech offers a range of Broadband Antennas, such as Spiral Antenna, Log Periodic Antenna, Omnidirectional Monitoring Antenna, Handheld Directional Antenna etc. Hundreds of COTS items or custom antenna subsystems are ideally suited to meet the challenging demands in relative applications.

The professional electrical and physical designs, the high quality materials, the precision machining, and the strict testing are all factors of producing delicate products with high performance.

HUAWEI
KEYSIGHT TECHNOLOGIES
清華大學 Tsinghua University
CASC 中国航天科技集团公司 China Aerospace Science and Technology Corporation
CASIC 中国航天科工集团有限公司 CHINA AEROSPACE SCIENCE AND INDUSTRY CORPORATION
CETC 中国电子科技集团有限公司 CHINA ELECTRONICS TECHNOLOGY GROUP CORPORATION
西安电子科技大学 XIDIAN UNIVERSITY

Antenna List

- **Horn Antenna**
  - Broadband Horn Antenna
  - Octave Horn Antenna
  - Dual Polarization Horn Antenna
  - Standard Gain Horn Antenna
  - Diagonal Horn Antenna
  - Conical Horn Antenna
  - Lens Horn Antenna
- **Reflector Antenna**
  - Cassegrain
  - Primary Focus Parabolic Antenna
- **Cavity Backed Spiral Antenna**
- **Spiral Antennas**
  - Conical Log Spiral Antenna
  - Helical Antenna
- **Log Periodic Antenna**
- **Discone-type Antenna**
  - Discone-type Antenna
  - Bi-conical Antenna
- **Loop Antenna**
- **Antenna Array/Assembly**
  - Microstrip Antenna Array with High Gain
  - Microwave monitoring direction finding antenna array

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▼ Broadband Horn Antennas

▶ Double-ridged

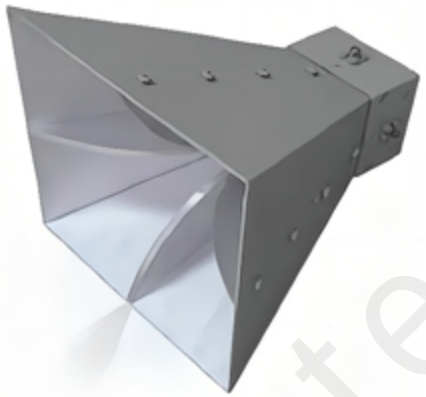
▶ Quad-ridged

Feature:

- ***Linear/Dual Linear*** polarization
- Cover a wide frequency range form

0.1GHz to 110GHz

- High gain & low VSWR
- Compact
- Competitive
- Customizable



Application:

- EMI testing
- Direction finding
- Surveillance
- Antenna gain and pattern measurements
- Other application

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBi)	VSWR Typ	Connector	Power Handing (W) CW	Size (mm)
SL-BDHA 0.1/1-N-F	0.1-1	Linear	8	2.5	N-F	800	2250*2154*1423
SL-BDHA 0.2/2.5-N-F	0.2-2.5	Linear	12	2.0	N-F; 7/16 DIN-F	800	967*731*902
SL-BDHA 0.4/6.0-N-F	0.4-6.0	Linear	10	1.5	N-F	500	532*340*443
SL-BDHA 0.5/50-2.4-F	0.5-50.0	Linear	12	1.8	2.4mm-F	10	368.5*264*5*328
SL-BDHA 1/20-SMA-F	1.0-20.0	Linear	11	1.5	SMA-F	50	244*160*204
SL-BDHA 6/18-N-F	6.0-18.0	Linear	10	1.5	N-F	150	55*56*109
SL-BDHA 6/67-1.85mm-F	6.0-67.0	Linear	13	1.5	1.85mm-F	5	42*42*65
SL-BDHA 18/50-2.4mm-F	18.0-50.0	Linear	20	1.5	2.4mm-F	10	55*55*113
SL-BDHA 10/110-1.0mm-F	10.0-110.0	Linear	13	1.5	1.0mm-F	4	42*42*65
SL-BDHA 18/110-1.0mm-F	18.0-110.0	Linear	14	1.5	1.0mm-F	4	42*42*65
SL-BQHA 6/18-2.4-F	6.0-18.0	Dual Linear	12	1.5	2.4mm-F	10	44.5*44.5*78
SL-BQHA 18/37-1.85-F	18.0-67.0	Dual Linear	15	1.8	1.85mm-F	5	34*34*61.5

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▼ Octave Horn Antenna

▶ Octave Horn Antenna

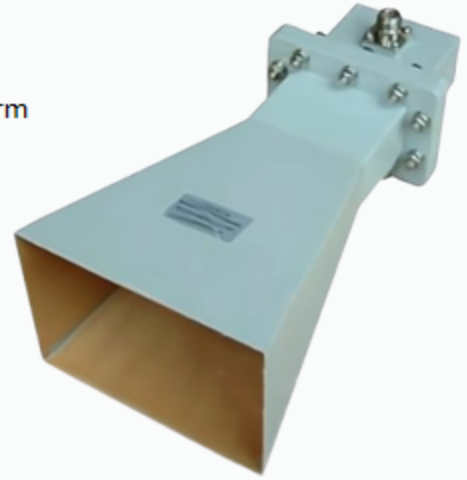
▶ Multi-Octave Horn Antenna

Feature:

- ***Linear*** polarization
- Cover a frequency range form

0.84GHz to 26.5GHz

- High gain & low VSWR
- Compact
- Competitive
- Customizable



Application:

- EMI testing
- Direction finding
- Surveillance
- Antenna gain and pattern measurements
- Other application

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBi)	VSWR Typ	Connector	Power Handing (W) CW	Size (mm)
SL-OHA 1/2-N-F	1.0-2.0	Linear	10	1.5	N-F	300	315*235*428
SL-OHA 1/2-SMA-F	1.0-2.0	Linear	15	1.5	SMA-F	50	564*424*650
SL-OHA 2/4-SMA-F	2.0-4.0	Linear	10	1.5	SMA-F	50	165*125*257
SL-OHA 2/4-N-F	2.0-4.0	Linear	15	1.5	N-F	300	264*204*377
SL-OHA 4/8-3.5-F	4.0-8.0	Linear	15	1.5	3.5mm-F	50	139*103*230
SL-OHA 4/8-7-F	4.0-8.0	Linear	20	1.5	7mm-F	150	225-173*315
SL-OHA 6/12-N-F	6.0-12.0	Linear	15	1.5	N-F	150	172*128*270
SL-OHA 6/12-SMA-F	6.0-12.0	Linear	20	1.5	SMA-F	50	172*128*270
SL-MOHA 0.84/2-N-F	0.84-2.0	Linear	15	1.5	N-F	500	586*436*769
SL-MOHA 6/16-SMA-F10	6.0-16.0	Linear	10	1.5	SMA-F	50	46*30*120
SL-MOHA 11/26.5-SMA-F	11.0-26.5	Linear	15	1.5	SMA-F	50	52*42*112

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Dual Polarization Horn Antenna

- **Broadband Dual Polarization Horn Antenna**
- **Conical Dual Polarization Horn Antenna**
- **Open Boundary Quad-ridged Dual Polarization Horn Antenna**

Feature:

- ***Dual polarization***
- Cover a frequency range form ***0.4GHz to 50.0GHz***
- High gain & low VSWR
- Durable for both indoor and outdoor environment
- Customizable

Application:

- EMI testing
- Direction finding
- Surveillance
- Antenna gain and pattern measurements
- Other application

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBi)	VSWR Typ	Connector	Power Handing (W) CW	Size (mm)
SL-OBQR 0.4/6-SMA-F	0.4-6.0	Dual Linear	12	1.5	SMA-F	50	510*510*550
SL-OBQR 0.7/6-N-F	0.7-6.0	Dual Linear	11	2	N-F	50	510*510*550
SL-OBQR 0.7/10-SMA-F	0.7-10.0	Dual Linear	11	2	SMA-F	50	310*310*412
SL-OBQR 0.7/12-N-F	0.7-12.0	Dual Linear	12	2	N-F	50	265.5*265.5*258.5
SL-OBQR 0.7/12-SMA-F	0.7-12.0	Dual Linear	12	2	SMA-F	50	265.5*265.5*258.5
SL-OBQR 1/18-N-F	1.0-18.0	Dual Linear	10	2	N-F	50	190.5*190.5*186.5
SL-OBQR 1/18-SMA-F	1.0-18.0	Dual Linear	10	2	SMA-F	50	190.5*190.5*186.5
SL-OBQR 1/20-N-F	1.0-20.0	Dual Linear	10	2	N-F	50	190.5*190.5*186.5
SL-OBQR 1/20-SMA-F	1.0-20.0	Dual Linear	10	2	SMA-F	50	190.5*190.5*186.5
SL-OBQR 2/50-2.4-F	2.0-50.0	Dual Linear	13	2	2.4mm-F	10	90*53*53
SL-OBQR 2/50-1.85-F	2.0-50.0	Dual Linear	10	2	1.85mm-F	5	90*53*53
SL-MOHA 0.84/2-N-F	0.84-2.0	Linear	15	1.5	N-F	500	586*436*769
SL-MOHA 11/26.5-SMA-F	11.0-26.5	Linear	15	1.5	SMA-F	50	52*42*112

Options for Dual Polarization Horn Antenna	
Option1	Convert to LHCP
Option2	Convert to RHCP
Option3	Convert to Dual Circular
Option4	Convert to Vertical, Horizontal, LHCP, RHCP, Switchable

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Standard Gain Horn Antenna

10dB Standard Gain Horn Antenna

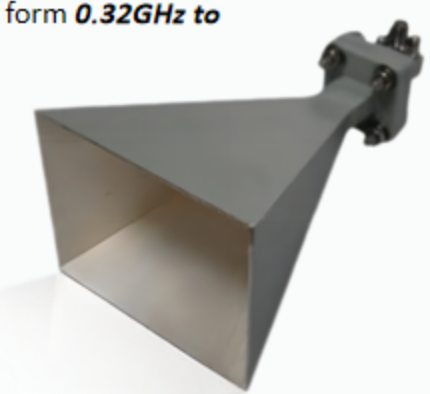
15dB Standard Gain Horn Antenna

20dB Standard Gain Horn Antenna

25dB Standard Gain Horn Antenna

Feature:

- ***Linear*** polarization
- Cover a frequency range form ***0.32GHz to 500.0GHz***
- High gain & low VSWR
- Compact design
- Competitive
- Customizable



Application:

- EMI testing
- Direction finding
- Surveillance
- Antenna gain and pattern measurements
- Other application

Model	Freq. (GHz)	Pol.	Gain. Typ. (dB)	VSWR Typ	Waveguide	Output	Mat.
SL-SGHA10 0.32/0.49-F3	0.32-0.49	Linear	10	1.15	WR2300	FDP3	Al
SL-SGHA10 15/22-F180	15.0-22.0	Linear	10	1.15	WR51	FBP180	Cu
SL-SGHA10 22/33-F260	22.0-33.0	Linear	10	1.15	WR34	FBP260	Cu
SL-SGHA10 75/110-F900	75.0-110.0	Linear	10	1.15	WR10	FUGP900	Cu
SL-SGHA10 110/170-UM	110.0-170.0	Linear	10	1.2	WR6	UG387/U-M	Cu
SL-SGHA15 0.75/1.12-F9	0.75-1.12	Linear	15	1.15	WR975	FDP9	Al
SL-SGHA15 1.12/1.7-F14	1.12-1.7	Linear	15	1.15	WR650	FDP14	Al
SL-SGHA15 24/50-2.4F	24.0-50.0	Linear	15	1.25	WR28	2.4F; 1.85F	Cu
SL-SGHA15 40/60-F500	40.0-60.0	Linear	15	1.15	WR19	FUGP500	Cu
SL-SGHA15 60/90-F740	60.0-90.0	Linear	15	1.2	WR12	FUGP740	Cu
SL-SGHA15 90/140-UM	90.0-140.0	Linear	15	1.1	WR8	UG387/U-M	Cu
SL-SGHA20 1.12/1.7-F14	1.12-1.7	Linear	20	1.15	WR650	FDP14	Al
SL-SGHA20 1.7/2.6-F22	1.7-2.6	Linear	20	1.15	WR430	FDP22	Al
SL-SGHA25 140/220-UM	140.0-220.0	Linear	25	1.2	WR5	UG387/U-M	Cu
SL-SGHA25 220/325-A3	220.0-325.0	Linear	25	1.15	WR3	APF3	Cu
SL-SGHA25 325/500-A2.2	325.0-500.0	Linear	25	1.15	WR2.2	APF2.2	Cu

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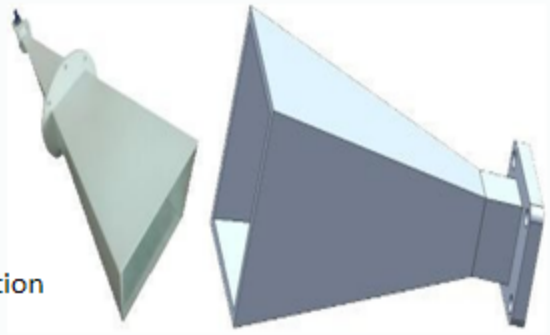
▼ Diagonal Horn Antenna

Feature:

- ***Linear*** polarization
- Cover a frequency range form ***0.75GHz to 220.0GHz***
- extremely low side-lobes
- Compact design
- Competitive
- Customizable



Application:

- Anechoic chamber illumination
- Antenna far field test
- Radar cross section(RCS) measurement
- Other application

Model	Freq. (GHz)	Pol.	Gain. Typ. (dB)	EIA WG	Output	Mat.
SL-DHA 0.75/1.12-F9	0.75-1.12	Linear	15	WR975	FDP9(UDR9); NF; SF; 7/16F	Al
SL-DHA 1.12/1.7-F14	1.12-1.7	Linear	15	WR650	FDP14(UDR14); NF; SF; 7/16F	Al
SL-DHA 1.7/2.6-F22	1.7-2.6	Linear	15	WR430	FDP22(UDR22); NF; SF; 7/16F	Al
SL-DHA 2.6/3.95-F32	2.6-3.95	Linear	20	WR284	FDP32(UDR32); NF; SF; 7/16F	Al
SL-DHA 3.95/5.85-F48	3.95-5.85	Linear	25	WR187	FDP48(UDR48); NF; SF; TF; 7mm; 3.5F	Al
SL-DHA 8.2/12.4-100F	8.2-12.4	Linear	25	WR90	FBP100(UBR100); SF; NF; TF; 7mm; 3.5F	Al
SL-DHA 12.4/18.0-F140	12.4-18.0	Linear	25	WR62	FBP140(UBR140); SF; NF; TF; 7mm; 3.5F	Al
SL-DHA 18/26.5-F220	18.0-26.5	Linear	25	WR42	FBP220(UBR220); SF; KF; 3.5F	Al
SL-DHA 26.5/40-F320	26.5-40.0	Linear	25	WR28	FBP320(UBR320); KF; 2.4F	Cu
SL-DHA 40/60-F500	40.0-60.0	Linear	25	WR19	FUGP500(UG-383/U-M); 1.85F	Cu
SL-DHA 50/75-F620	50.0-75.0	Linear	25	WR15	FUGP620(UG-385/U)	Cu
SL-DHA 60/90-F740	60.0-90.0	Linear	25	WR12	FUCP740(UG-387/U)	Cu
SL-DHA 90/140-UM	90.0-140.0	Linear	25	WR	UG-387/U-M	Cu
SL-DHA 110/170-UM	110.0-170.0	Linear	25	WR	UG-387/U-M	Cu
SL-DHA 140/220-UM	140.0-220.0	Linear	25	WR	UG-387/U-M	Cu

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Conical Horn Antenna

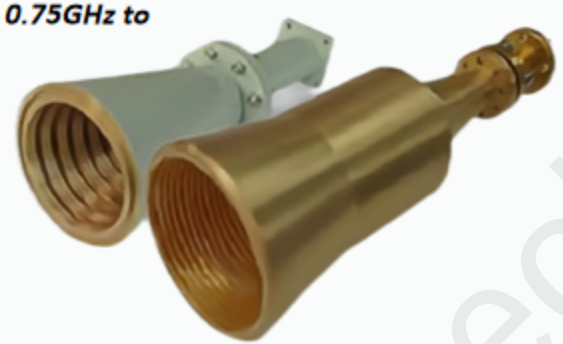
Conical Horn Antenna

Corrugated Conical Horn Antenna

Corrugated Feed Horn Horn Antenna

Feature:

- ***Linear/Circular/Dual Linear*** polarization
- Cover a frequency range form ***0.75GHz to 260.0GHz***
- Compact design
- Competitive
- Customizable



Application:

- Antenna far field test
- RF radiation measurements
- Other application

Conical Horn Antenna with Other Circular WG Interface

Model	Freq. (GHz)	Pol.	Gain. Typ. (dB)	Flange	Mat.
-	8.2-12.4	Linear& Circular	10; 15; 20	FBP100-M	Al
-	10.0-15.0	Linear& Circular	15; 20; 25	FBP120-M	Al
-	12.4-14.6	Linear& Circular	15; 20; 25	FBP140-M	Al
-	14.6-17.5	Linear& Circular	15; 20; 25	FBP180-M	Al
-	125.0-140.0	Linear& Circular	15; 20; 25	UG-387/U-M	Cu
-	140.0-160.0	Linear& Circular	15; 20; 25	UG-387/U-M	Cu
-	183.0-240.0	Linear& Circular	15; 20; 25	UG-387/U-M	Cu

Conical Horn Antenna with Integrated Rectangular WG Transition-Linear

Model	Freq. (GHz)	Pol.	Gain. Typ. (dB)	Flange	Figure	Mat.	Size (mm)
SL-CHIRW 26.5/40-F320	26.5-40.0	Linear	20	FBP320	A Type	Cu	46*46*52
SL-CHIRW 26.5/40-2.92F	26.5-40.0	Linear	20	2.92mm-F	C Type	Cu	46*46*52
SL-CHIRW 26.5/40-2.4F	26.5-40.0	Linear	20	2.4mm-F	C Type	Cu	46*46*52
SL-CHIRW 50/75-F620	50.0-75.0	Linear	20	FUGP620	A Type	Cu	25*25*28
SL-CHIRW 50/65-1.85F	50.0-65.0	Linear	20	1.85mm-F	C Type	Cu	25*30*56
SL-CHIRW 50/75-1.0F	50.0-75.0	Linear	20	1.0mm-F	C Type	Cu	25*28*53.5

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▼ Lens Horn Antenna

▶ Lens Horn Antenna

▶ Spot-focusing Lens Horn Antenna

Feature:

- ***Linear/Circular/Dual Linear*** polarization
- Cover a frequency range form ***7.5GHz to 112.0GHz***
- Compact design
- Competitive
- Customizable

Application:

- Multipoint Video Distribution Systems
- Local Multipoint distribution services
- Traffic Control Systems
- Secure Communications Systems
- Electro-Magnetic Compatibility(EMC) Measurements
- Point to Point Radio Links
- Other application

Lens Horn Antenna

Model	Freq. (GHz)	Pol.	EIA WR	Gain. Typ. (dB)	VSWR Typ.	Output
SL-LHA 7.9/8.5-F84	7.9-8.5	Linear	WR112	25	1.5	FBP84
SL-LHA 8.2/12.4-F100	8.2-12.4	Linear	WR90	25	1.6	FBP100
SL-LHA 21.2/26.5-F220	21.2-26.5	Linear	WR42	34.5	1.5	FBP220
SL-LHA 26.5/40-F320	26.5-40.0	Linear	WR28	33	1.3	FBP320
SL-LHA 50/75-F620	50.0-75.0	Linear	WR15	34.5	1.5	FUGP620

Spot-focusing Lens Horn Antenna

Model	Freq. (GHz)	Pol.	Focal Length	Spot Size	EIA WR	VSWR Typ.	Output
SL-SLHA 7.5/18-F24	7.5-18.0	Linear	320; 440	50; 75	WRD750	2.2; 1.8	FPWRD750D24
SL-SLHA 26.5/40-F320	26.5-40.0	Linear	150; 220; 270	20; 10; 25	WR28	1.25; 1.5; 1.5	FBP320
SL-SLHA 60/90-F740	60.0-90.0	Linear	170; 210	20; 22	WR12	1.5; 1.5	FUGP740

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▼ Reflector Antenna

▶ Cassegrain antenna

▶ Primary Focus Parabolic Antenna

Feature:

- ***Linear/Dual Linear*** polarization
- Cover a frequency range form ***12.0GHz to 110.0GHz***
- Compact design
- Competitive
- Customizable

Application:

- Multipoint Video Distribution Systems
- Local Multipoint distribution services
- Traffic Control Systems
- Secure Communications Systems
- Electro-Magnetic Compatibility(EMC) Measurements
- Point to Point Radio Links
- Other application

Cassegrain

Model	Freq. (GHz)	Pol.	EIA WR	Gain. Typ. (dB)	VSWR Typ.	Output
SL-RAC 60/90-F740	60.0-90.0	Linear	WR12	45	1.15	FUGP740
SL-RAC 75/110-F900	75.0-110.0	Linear	WR10	48	1.15	FUGP900

Primary Focus Parabolic Antenna

Model	Freq. (GHz)	Pol.	Cross Pol. Isolation Typ(dB)	VSWR Typ.	Output
SL-PFPA 12/16-DL	12.0-16.0	Dual Linear	12	3.0	Coaxial

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▼ Cavity Backed Spiral Antenna

Feature:

- ***Circular*** polarization
- Cover a frequency range form ***0.5GHz to 40.0GHz***
- Compact design
- Competitive
- Customizable

Application:

- EMC testing
- surveillance
- Direction finding
- Telemetry
- flush mounted airborne application
- Other application

Model	Freq. (GHz)	Pol.	Gain. Typ. (dB)	Axial Ratio Max (dB)	VSWR Typ.	Connector	Mat.
SL-CBSA 0.5/2-SF	0.5-2.0	Circular	-6	3	1.5	SMA-F	Al
SL-CBSA 0.8/8-SF	0.8-8.0	Circular	0	3.5	1.5	SMA-F	Al
SL-CBSA 1/18-SF	1.0-18.0	Circular	4	3	2.0	SMA-F	Al
SL-CBSA 18/40-2.92F	18.0-40.0	Circular	2	5.5	2.0	2.92mm-F	Al

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▼ Conical Log Spiral Antennas

Feature:

- ***Circular*** polarization
- Cover a frequency range form ***0.2GHz to 10.0GHz***
- Compact design
- Durable
- Customizable

Application:

- Antenna measurement
- Far-field measurement
- Reflector feed
- System integration
- Other application

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBic)	VSWR Typ.	Connector	Mat.
SL-CLSA 0.2/1-NF	0.2-1.0	LHCP	2	3.0	N-F	Al
SL-CLSA 0.2/1-NF	0.2-1.0	RHCP	2	3.0	N-F	Al
SL-CLSA 1/10-NF	1.0-10.0	LHCP	3	3.0	N-F	Al
SL-CLSA 1/10-NF	1.0-10.0	RHCP	3	3.0	N-F	Al

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▼ Helical Antennas

Feature:

- ***Circular*** polarization
- Cover a frequency range form ***6.6GHz to 7.0GHz***
- Low VSWR
- Durable
- Customizable

Application:

- Antenna measurement
- Far-field measurement
- System integration
- Other application

Model	Freq. (GHz)	Pol.	Gain. Min. (dBic)	VSWR Max	Power Handling (W) CW	Connector
SL-HA 6.6/7-SF	6.6-7.0	LHCP	10	2.0	10	SMA-F
SL-HA 6.6/7-SF	6.6-7.0	RHCP	10	2.0	10	SMA-F
SL-HA 8/8.4-SF	8.0-8.4	LHCP	12	2.0	10	SMA-F
SL-HA 8/8.4-SF	8.0-8.4	RHCP	12	2.0	10	SMA-F
SL-HA 9/10-SF	9.0-10.0	LHCP	12	2.0	10	SMA-F
SL-HA 9/10-SF	9.0-10.0	RHCP	12	2.0	10	SMA-F

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▼ Log Periodic Antenna

Feature:

- ***Linear/Dual Linear*** polarization
- Cover a frequency range form ***0.03GHz to 6.0GHz***
- high front-to-back ratio
- lightweight
- Customizable

Application:

- Gain reference
- Antenna measurement
- Reflector feed
- Chamber evaluation
- Far-field measurement
- System intergration
- Other application

Log Periodic Antenna-Linear

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBic)	VSWR Typ.	Connector	Mat.
SL-LPAL 0.03/1-NF	0.03-1.0	Linear	6	2.0	N-F	Al
SL-LPAL 0.04/2-NF	0.04-2.0	Linear	6	2.0	N-F	Al
SL-LPAL 0.5/8-NF	0.5-8.0	Linear	7	2.0	N-F	Al
SL-LPAL 0.1/6-NF	0.1-6.0	Linear	7	2.0	N-F	Al

Log Periodic Antenna-Dual Linear

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBic)	VSWR Typ.	Connector	Mat.
SL-LPADL 0.1/1-NF	0.1-1.0	Dual Linear	7	2.0	N-F	Al
SL-LPADL 0.1/1-NF	0.1-1.0	Dual Linear	7	2.0	N-F	Al
SL-LPADL 0.2/1-NF	0.2-1.0	Dual Linear	7	2.0	N-F	Al
SL-LPADL 0.2/4-NF	0.2-4.0	Dual Linear	7	2.0	N-F	Al

TOPTECH MICROWAVE

▼ Discone-type Antenna

▶ Discone-type Antenna

▶ Bi-conical Antenna

Feature:

- ***Linear*** polarization
- Cover a frequency range form ***0.03GHz to 110.0GHz***
- Easy to install
- Customizable

Application:

- Surveillance
- Antenna measurement
- System integration
- Other application

Discone-type Antenna

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBic)	VSWR Typ.	Connector	Mat.
SL-DA 0.03/0.5-NF	0.03-0.5	Linear	1	2.5	N-F	Al
SL-DA 0.07/1-NF	0.07-1.0	Linear	3	2.0	N-F	Al
SL-DA 0.1/4-NF	0.1-0.4	Linear	0	2.0	N-F	Al
SL-DA 0.25/1-NF	0.25-1.0	Linear	1.5	2.0	N-F	Al
SL-DA 0.8/2-NF	0.8-2.0	Linear	1	2.5	N-F	Al
SL-DA 1/8-NF	1.0-8.0	Linear	4	2.0	SMA-F	Al
SL-DA 1/18-NF	1.0-18.0	Linear	5	2.0	SMA-F	Al

Bi-Conical Antenna

Model	Freq. (GHz)	Pol.	Gain. Typ. (dBic)	VSWR Typ.	Connector	Mat.
SL-BCA 0.1/3-NF	0.1-3.0	Linear	4	2.0	N-F	Al
SL-BCA 0.8/4-SF	0.8-4.0	Linear	0	1.5	SMA-F	Al
SL-BCA 2/30-SF	2.0-30.0	Linear	4	2.5	SMA-F	Al
SL-BCA 3/50-2.4F	3.0-50.0	Linear	4	2.0	2.4mm-F	Al
SL-BCA 4/40-2.92F	4.0-40.0	Linear	3	2.0	2.92mm-F	Al
SL-BCA 10/110-1.0F	10.0-110.0	Linear	4	2.0	1.0mm-F	Al

TOPTECH MICROWAVE

▼ Loop Antennas

Model	Freq. (GHz)	Gain. Max. (dB)	Gain. Min. (dB)	Pol.	Connector	Size (mm)
SL-LA 0.2/0.5-F100	0.2-0.5	-6	-38	Linear	N	44*292-140

Feature:

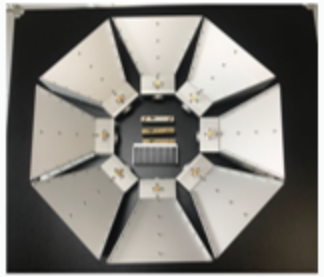
- ***Linear*** polarization
- Cover a frequency range form ***0.2GHz to 0.5GHz***
- compact design
- Competitive
- Customizable

Application:

- Gain Reference
- Antenna measurement
- System integration
- Far-field Measurement
- Other application

TOPTECH MICROWAVE

Antenna Array & Assembly



Microstrip Antenna Array with High Gain

Model	Freq. (GHz)	Gain. Typ. (dB)	Flamge	Bandwidth (%)	Size (mm)
SL-MAA 9.4-F100	9.4	22	FBP100	1-3	550*100*10
SL-MAA 1.5-NF	1.5	20	N-F	3-10	1000*800*40
SL-MAA 2.4-SF	2.4	22	SMA-F	3-10	680*220*30
SL-MAA 10.5-SF	10.5	22	SMA-F	3-10	360*120*25
SL-MAA 13.8-SF	13.8	22	SMA-F	3-10	290*95*25

Microwave monitoring direction finding antenna array

Model	Freq. (GHz)	Gain. Typ. (dB)	VSWR	Coverage	Mat.	Size (mm)
SL-MMDFAA 0.8/18	0.8-18.0	7	2.5	360° ,Pitch -5° ~+30°	Al/Cu	Φ390*300(with radome)

Direction Finding Antenna

20–3600MHz 5-elementDirection Finding Antenna	
Electrical	
Frequency range	Band 1: 20–300 MHz; Band 2: 300–1000 MHz; Band 3: 1000–3600 MHz
Nominal input impedance	50 Ω
Antenna type	5-element DF interferometer
Polarisation	Vertical
Output cables	RG 400 cables (qty 15)
Connectors	TNC male
Mechanical	
Cross-sectional wind load area	0.75 m^2
Maximum wind speed	150 km/h (without ice)
Weight	44.5 kg
Height	2.582 m ± 10 mm
Diameter (Max)	2.584 m ± 10 mm
Packaging length	1.550 m
Shipping container dimensions	1550 mm x 600 mm x 500 mm

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