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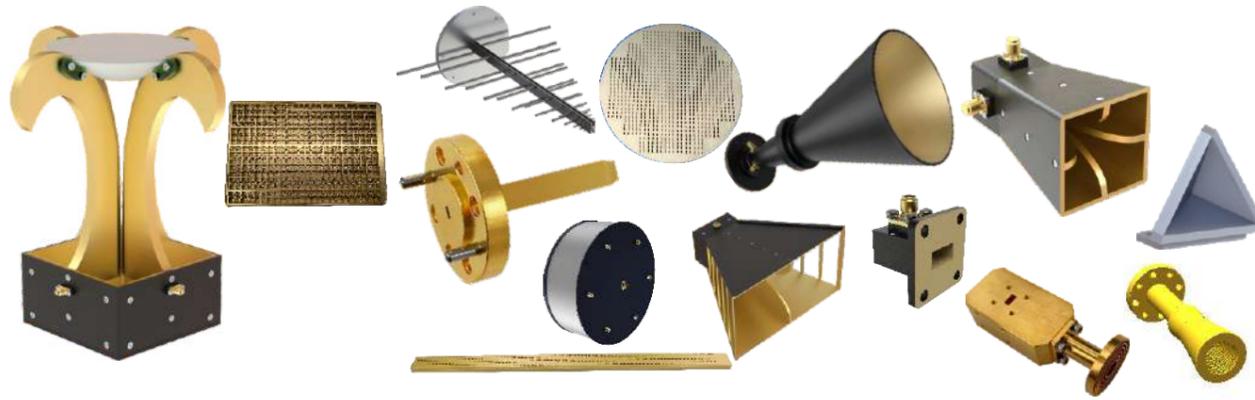
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ANTENNAS AND
PASSIVE COMPONENTS MANUFACTURER



ABOUT US

RF MISO is a high-tech enterprise specializing in the R&D and production of antennas and communication devices. Since our establishment, we have been committed to the R&D, innovation, design, production and sales of antennas and communication devices. Our team is composed of doctors, masters, senior engineers and skilled front-line workers, with solid professional theoretical foundation and rich practical experience. "Be focus, Be professor" is our slogan. In our team, the close cooperation of innovative research and development and precision production enables us to achieve the three goals of the enterprise: to achieve the best performance and excellent quality of various types of standard antennas, to serve well the needs of customers for various customized antennas, such as waveguide slot antennas, etc, in the case of the customer's design, meet the customer's demand for production and manufacturing. Our products are widely used in various commercial applications, experiments, test systems and many other applications.

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Naming Rules

RM: RF Miso
SGHA: Standard Gain Horn Antenna
RM-SGHA430-10
10: Gain 10dBi
430: Waveguide 430

RM: RF Miso
DPHA: Dual Polarization Horn Antenna
RM-DPHA918-15
15: Gain 15dBi
918: 9GHz-18GHz

Examples:

RM-SGHA430-10 is Standard Gain Horn Antenna, Waveguide 430, Gain 10dBi.

RM-BDHA18-15 is Broadband Horn Antenna, 1GHz-8GHz, Gain 15dBi.

RM-DPHA618-15 is Dual Polarized Horn Antenna, 6GHz-18GHz, Gain 15dBi.

RM-CHA3040-10 is Corrugated Horn Antenna, 30GHz-40GHz, Gain 10dBi.

Customized Service	Process	Requirment collection, desgin, sample, test
	Cost	According to antenna design production process and materials
	Shipment	Estimated by antenna
Payment	payment	TT 100%(Telegraphic Transfer)
Product Shipment	Stock and Leadtime	In stock products shipped within 5 days
	Shipment	UPS, FedEx, DHL
	Package	Wooden box, Carton
Available Accessories (Not Free)	1	Installation fixture
	2	Tripod
	3	Antenna radome
	4	Packing box

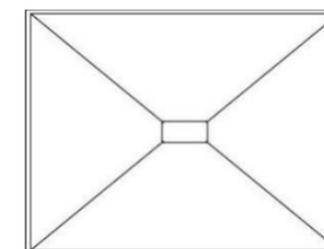
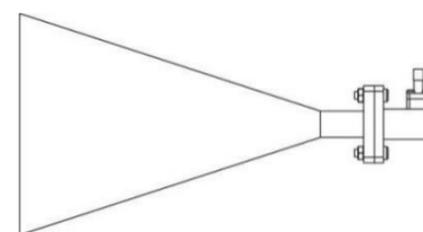
1 Standard Gain Horn Antenna

Standard gain horn antennas provided by RF Miso adopt linear polarization and offer an efficient and economical method for measurement. The standard gain horn antenna series covers the frequency from 1.7GHz to 500GHz overlappingly. These horn antennas can be widely used in EMI detection, orientation, reconnaissance, antenna gain, pattern measurement, and other applications. This series of horn antennas has the characteristics of high gain, low VSWR, and light appearance.



Frequency: 1.7GHz-500GHz
VSWR: <1.5 1.25(Type.)
Gain: 10dBi, 15dBi, 20dBi
Interface: Waveguide, Coaxial

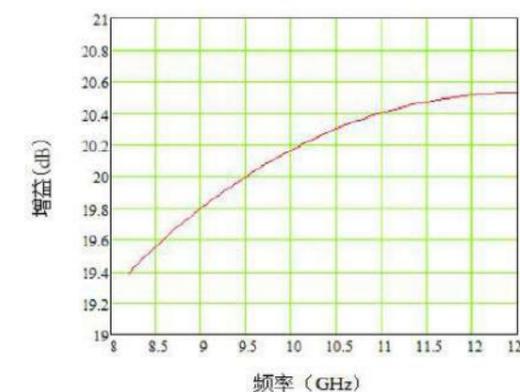
For Example



Volt Standing Wave Ratio



Gain



Model	Frequency (GHz)	Gain (dBi)	Wave guide	Type	Interface	Dimension(mm)			Material	Datash eet
						W	H	L		
RM-SGHA770-15	0.95-1.45	15	WR770		Waveguide	660	501	602	Al	Detail
RM-SGHA650-15	1-1.8	15	WR650	C	N-F	468.35	327	1071	Al	Detail
RM-SGHA430-10	1.7-2.6	10	WR430	F	FDP22	170.1	137	200	Al	Detail
RM-SGHA430-10		10		C	N-F	170.1	137	351	Al	Detail
RM-SGHA430-15		15		F	FDP22	300.1	217	372	Al	Detail
RM-SGHA430-15		15		C	N-F	300.1	217	523	Al	Detail
RM-SGHA430-20		20		F	FDP22	538.2	400	1105	Al	Detail
RM-SGHA430-20		20		C	N-F	538.2	400	1256	Al	Detail
RM-SGHA340-15		2.2-3.3		15	WR340	F	Waveguide	870	48	411
RM-SGHA284-10	2.6-3.95	10	WR284	F	FDP32	114.3	92	129.9	Al	Detail
RM-SGHA284-10		10		C	N-F	114.3	92	232.9	Al	Detail
RM-SGHA284-15		15		F	FDP32	199.7	145	245.3	Al	Detail
RM-SGHA284-15		15		C	N-F	199.7	145	348.3	Al	Detail
RM-SGHA284-20		20		F	FDP32	356.8	266	730	Al	Detail
RM-SGHA284-20		20		C	N-F	356.8	266	833	Al	Detail
RM-SGHA229-10	3.3-4.9	10	WR229	F	FDP40	98.4	77	105	Al	Detail
RM-SGHA229-10		10		C	N-F	98.4	84	189.5	Al	Detail
RM-SGHA229-15		15		F	FDP40	161.8	118	197.8	Al	Detail
RM-SGHA229-15		15		C	N-F	161.8	118	282.3	Al	Detail
RM-SGHA229-20		20		F	FDP40	290.6	217	589	Al	Detail
RM-SGHA229-20		20		C	N-F	290.6	217	673.5	Al	Detail
RM-SGHA187-10		3.95-5.85		10	WR187	F	FDP48	88.9	64	86
RM-SGHA187-10	10		C	N-F		88.9	74	158.1	Al	Detail
RM-SGHA187-15	15		F	FDP48		133	97	161.7	Al	Detail
RM-SGHA187-15	15		C	N-F		133	97	233.7	Al	Detail
RM-SGHA187-20	20		F	FDP48		236.6	177	480.2	Al	Detail
RM-SGHA187-20	20		C	N-F		236.6	177	552.3	Al	Detail
RM-SGHA159-10	4.9-7.05	10	WR159	F	FDP58	81	62	80	Al	Detail
RM-SGHA159-10		10		C	N-F	81	73	137.3	Al	Detail
RM-SGHA159-15		15		F	FDP58	113.6	83	137.3	Al	Detail
RM-SGHA159-15		15		C	N-F	113.6	84	194.6	Al	Detail
RM-SGHA159-20		20		F	FDP58	201.6	151	407.9	Al	Detail
RM-SGHA159-20		20		C	N-F	201.6	151	465.2	Al	Detail
RM-SGHA137-10	5.85-8.2	10	WR137	F	FDP70	68.3	49	80	Al	Detail
RM-SGHA137-10		10		C	SMA-F	68.3	49	133.7	Al	Detail
RM-SGHA137-15		15		F	FDP70	98.3	72	118.1	Al	Detail
RM-SGHA137-15		15		C	SMA-F	98.3	72	171.8	Al	Detail
RM-SGHA137-20		20		F	FDP70	174	130	351	Al	Detail
RM-SGHA137-20	20	C	SMA-F	174	130	404.6	Al	Detail		
RM-SGHA112-10	6.57-9.99	10	WR112	F	FBP84	48.4	48	60	Al	Detail
RM-SGHA112-10		10		C	SMA-F	48.4	48	103.1	Al	Detail
RM-SGHA112-15		15		F	FBP84	83.5	62	96.9	Al	Detail
RM-SGHA112-15		15		C	SMA-F	83.5	62	140	Al	Detail
RM-SGHA112-20		20		F	FBP84	143.4	107	290	Al	Detail
RM-SGHA112-20		20		C	SMA-F	143.4	108	333.1	Al	Detail

Model	Frequency (GHz)	Gain (dBi)	Wave guide	Type	Interface	Dimension(mm)			Material	Datash eet		
						W	H	L				
RM-SGHA90-10	8.2-12.5	10	WR90	F	FBP100	41.4	41	47	Al	Detail		
RM-SGHA90-10		10		C	SMA-F	41.4	41	84.3	Al	Detail		
RM-SGHA90-15		15		F	FBP100	66.2	49	85	Al	Detail		
RM-SGHA90-15		15		C	SMA-F	66.2	49	122.3	Al	Detail		
RM-SGHA90-20		20		F	FBP100	115.9	87	238	Al	Detail		
RM-SGHA90-20		20		C	SMA-F	115.9	87	275.3	Al	Detail		
RM-SGHA90-25		25		C	SMA-F	184.3	231	582	Al	Detail		
RM-SGHA75-10		9.84-15		10	WR75	F	FBP120	38	38	44	Al	Detail
RM-SGHA75-10				10		C	SMA-F	38	39	75.8	Al	Detail
RM-SGHA75-15				15		F	FBP120	55.9	42	64.8	Al	Detail
RM-SGHA75-15	15		C	SMA-F		55.9	42	96.5	Al	Detail		
RM-SGHA75-20	20		F	FBP120		99.3	75	195	Al	Detail		
RM-SGHA75-20	20		C	SMA-F		99.3	75	226.8	Al	Detail		
RM-SGHA75-25	25		C	N-F		159	204	628.3	Al	Detail		
RM-SGHA62-10	11.9-18	10	WR62	F	FBP140	33	33	57	Al	Detail		
RM-SGHA62-10		10		C	SMA-F	33	33	57	Al	Detail		
RM-SGHA62-15		15		F	FBP140	45	33	79	Al	Detail		
RM-SGHA62-15		15		C	SMA-F	45	33	79	Al	Detail		
RM-SGHA62-20		20		F	FBP140	81.3	61	163.2	Al	Detail		
RM-SGHA62-20		20		C	SMA-F	81.3	61	192.1	Al	Detail		
RM-SGHA62-25		25		C	SMA-F	128	158	403	Al	Detail		
RM-SGHA51-10	14.5-22	10	WR51	F	FBP180	30.2	30	35	Al	Detail		
RM-SGHA51-10		10		C	SMA-F	30.2	34	62.5	Al	Detail		
RM-SGHA51-15		15		F	FBP180	38.3	30	51.8	Al	Detail		
RM-SGHA51-15		15		C	SMA-F	38.3	34	79.3	Al	Detail		
RM-SGHA51-20		20		F	FBP180	67.4	51	138.6	Al	Detail		
RM-SGHA51-20		20		C	SMA-F	67.4	51	166	Al	Detail		
RM-SGHA51-25		25		C	SMA-F	138	108	451.6	Al	Detail		
RM-SGHA42-10	17.6-26.7	10	WR42	F	FBP220	22.4	22	26	Al	Detail		
RM-SGHA42-10		10		C	SMA-F	22.4	30	46.5	Al	Detail		
RM-SGHA42-15		15		F	FBP220	32	24	45	Al	Detail		
RM-SGHA42-15		15		C	SMA-F	32	30	65.5	Al	Detail		
RM-SGHA42-20		20		F	FBP220	56.2	43	110	Al	Detail		
RM-SGHA42-20		20		C	SMA-F	56.2	43	130.5	Al	Detail		
RM-SGHA42-25	25	C	2.92-F	104	69	282	Al	Detail				
RM-SGHA34-10	21.7-33	10	WR34	F	FBP260	21.1	21	26	Al	Detail		
RM-SGHA34-10		10		C	SMA-F	21.1	28	48.3	Al	Detail		
RM-SGHA34-15		15		F	FBP260	26.5	21	40	Al	Detail		
RM-SGHA34-15		15		C	SMA-F	26.5	28	62.3	Al	Detail		
RM-SGHA34-20		20		F	FBP260	46.3	35	93	Al	Detail		
RM-SGHA34-20		20		C	SMA-F	46.3	35	115.3	Al	Detail		
RM-SGHA34-25					2.4-F	92	72	262	Al	Detail		
RM-SGHA28-25	26.5-40	25	WR28	F	2.92-F	74.6	59	196.8	Al	Detail		
RM-SGHA28-10		10		F	FBP320	19.1	19	21.4	Al	Detail		
RM-SGHA28-10		10		C	2.92-F	19.1	27	41.5	Al	Detail		

Model	Frequency (GHz)	Gain (dBi)	Wave guide	Type	Interface	Dimension(mm)			Material	Datash eet
						W	H	L		
RM-SGHA28-15	26.5-40	15	WR28	F	FBP320	21.4	19	34	Al	Detail
RM-SGHA28-15		15		C	2.92-F	21.4	27	54	Al	Detail
RM-SGHA28-20		20		F	FBP320	19.1	19	21.4	Al	Detail
RM-SGHA28-20		20		C	2.92-F	19.1	27	41.5	Al	Detail
RM-SGHA22-25	33-50	25	WR22	C	2.4-Female	69	57.8	198.6	Al	Detail
RM-SGHA19-10	40-60	10	WR19	F	FUGP500	8	6	15	Cu	Detail
RM-SGHA19-10		10		C	2.4mm-F	8	6	20	Cu	Detail
RM-SGHA19-15		15		F	FUGP500	17	12	22	Cu	Detail
RM-SGHA19-15		15		C	2.4mm-F	17	12	27	Cu	Detail
RM-SGHA19-20		20		F	FUGP500	29	22	50	Cu	Detail
RM-SGHA19-20		20		C	2.4mm-F	29	22	55	Cu	Detail
RM-SGHA19-25		25		C	2.4mm-F	58.6	49.2	171.3	Al	Detail
RM-SGHA15-10	50-75	10	WR15	F	FUGP620	6	5	14	Cu	Detail
RM-SGHA15-10		10		C	1.85MM-F	6	5	18	Cu	Detail
RM-SGHA15-15		15		F	FUGP620	13	9	19	Cu	Detail
RM-SGHA15-15		15		C	1.85MM-F	13	9	23	Cu	Detail
RM-SGHA15-20		20		F	FUGP620	23	18	42	Cu	Detail
RM-SGHA15-20		20		C	1.85MM-F	23	18	46	Cu	Detail
RM-SGHA15-25	25	C		44.9	34.7	97.3	Cu	Detail		
RM-SGHA12-10	60-90	10	WR12	F	FUGP740	5	4	13	Cu	Detail
RM-SGHA12-10		10		C	1.0mm-F	5	4	17	Cu	Detail
RM-SGHA12-15		15		F	FUGP740	11	8	18	Cu	Detail
RM-SGHA12-15		15		C	1.0mm-F	11	8	21	Cu	Detail
RM-SGHA12-17		17		F	FUGP740	19.1	19.1	35.8	Cu	Detail
RM-SGHA12-17		17		C	1.0mm-F	19.1	19.1	35.8	Cu	Detail
RM-SGHA12-20		20		F	FUGP740	19	15	37	Cu	Detail
RM-SGHA12-20	20	C	1.0mm-F	19	15	40	Cu	Detail		
RM-SGHA10-10	75-110	10	WR10	F	FUGP900	4	3	12	Cu	Detail
RM-SGHA10-10		10		C	1.0mm-F	4	3	15	Cu	Detail
RM-SGHA10-15		15		F	FUGP900	9	6	16	Cu	Detail
RM-SGHA10-15		15		C	1.0mm-F	9	6	19	Cu	Detail
RM-SGHA10-20		20		F	FUGP900	15	12	31	Cu	Detail
RM-SGHA10-20		20		C	1.0mm-F	15	12	34	Cu	Detail
RM-SGHA10-25	25	C		26	33.6	82.5	Cu	Detail		
RM-SGHA8-10	90-140	10	WR8	F	UG387	3	2	12	Cu	Detail
RM-SGHA8-15		15		F	UG387	7	5	15	Cu	Detail
RM-SGHA8-20		20		F	UG387	12	10	28	Cu	Detail
RM-SGHA6-10	110-170	10	WR 6	F	UG-387/U-M	3	2	12	Cu	Detail
RM-SGHA6-15		15		F	UG-387/U-M	6	4	14	Cu	Detail
RM-SGHA6-20		20		F	UG-387/U-M	10	8	24	Cu	Detail
RM-SGHA5-10	140-220	10	WR5	F	UG387	2	1	11	Cu	Detail
RM-SGHA5-15		15		F	UG387	4	3	13	Cu	Detail
RM-SGHA5-20		20		F	UG387	8	6	21	Cu	Detail
RM-SGHA5-23		23		F	Waveguide	19.1	19.1	25.76	Cu	Detail

Model	Frequency (GHz)	Gain (dBi)	Wave guide	Type	Interface	Dimension(mm)			Material	Datash eet
						W	H	L		
RM-SGHA4-10	170-260	10	WR4	F	APF4	1	1	11	Cu	Detail
RM-SGHA4-15		15		F	APF4	4	2	12	Cu	Detail
RM-SGHA4-20		20		F	APF4	6	5	19	Cu	Detail
RM-SGHA3-10	220-325	10	WR3	F	APF3	1	1	11	Cu	Detail
RM-SGHA3-15		15		F	APF3	3	2	12	Cu	Detail
RM-SGHA3-20		20		F	APF3	5	4	17	Cu	Detail
RM-SGHA2.8-25	260-400	25	WR2.8			19	22	19	Cu	Detail
RM-SGHA2.2-10	325-500	10	WR2.2	F	APF2.2	1	0.7	10	Cu	Detail
RM-SGH2.2-15		15		F	APF2.2	2	1	11	Cu	Detail
RM-SGHA2.2-20		20		F	APF2.2	3	2	15	Cu	Detail
RM-SGHA2.2-25		25		F	APF2.2	19	19	17	Cu	Detail

2 Broadband Horn Antenna

The wideband horn antennas provided by RF Miso adopt linear polarization, provide an efficient and economical method for wideband measurement. The broadband horn series can cover the frequency from 100MHz to 110GHz, these horn antennas can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields. This series of horn antennas has the characteristics of high gain, high frequency doubling, low VSWR, and light appearance. We can customize various special specifications according to the needs of customers, especially broadband horn antennas with special requirements for gain. The test report is for reference only.



Frequency: 0.1-110GHz

VSWR: ≤2.5

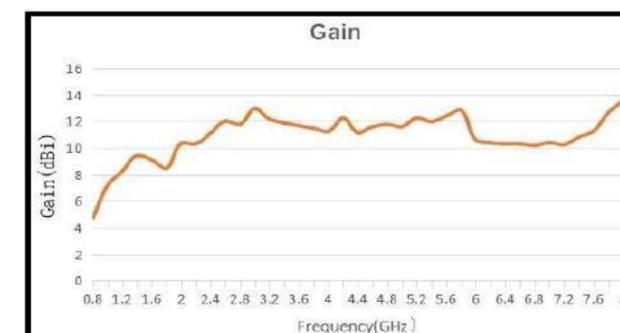
Gain: 6-15dBi

Interface: Connector

Volt Standing Wave Ratio



Gain



Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-BDHA011-6	0.1-1	Linear	6	N-F	2250	2164	1400	Al	Detail
RM-BDHA0225-10	0.2-2.5	Linear	10	N-F	950	700	900	Al	Detail
RM-BDHA0352-14	0.35-2	Linear	14	N-F	541	473	915	Al	Detail
RM-BDHA0406-9	0.4-0.6	Linear	9	N-F	699	413	1040	Al	Detail
RM-BDHA0507-9	0.5-0.7	Linear	9	N-F	583	345	882	Al	Detail
RM-BDHA046-10	0.4-6	Linear	10	SMA-F	320	430	490	Al	Detail
RM-BDHA0308-8	0.3-0.8	Linear	8	N-F	604.54	400	540	Al	Detail
RM-BDHA18-15	1-8	Linear	15	SMA-F	349.8	375	514	Al	Detail
RM-BDHA618-18	6-18	Linear	18	SMA-F	346.3	256.2	453	Al	Detail
RM-BDHA07518-10	0.75-18	Linear	10	SMA-KFD	245.4	141.1	218	Al	Detail
RM-BDHA01125-10	1-12.5	Linear	10	SMA-F	244	158	216	Al	Detail
RM-BDHA011-10	0.1-1	Linear	10	N-F	2128	1357	2037	Al	Detail
RM-BDHA2530-15	2.5-30	Linear	15	2.92-F	124	81	111	Al	Detail
RM-BDHA056-11	0.5-6	Linear	11	SMA-F	383.6	291.7	339	Al	Detail
RM-BDHA066-11	0.6-6	Linear	11	N-50KFD	442	290	344	Al	Detail
RM-BDHA071-9	0.7-1	Linear	9	N-F	381	226	559	Al	Detail
RM-BDHA088-10N	0.8-8	Linear	10	N-F	288	162	230	Al	Detail
RM-BDHA12-12	1-2	Linear	12	N-F	256	214	550	Al	Detail
RM-BDHA14-10	1-4	Linear	10	N-F	251	172	256	Al	Detail
RM-BDHA112-10	1-12	Linear	10	SMA-F	244	160	204	Al	Detail
RM-BDHA118-10	1-18	Linear	10	SMA-F	185.1	116.6	182.4	Al	Detail
RM-BDHA26-13	2-6	Linear	13	SMA-F	123	108	199	Al	Detail
RM-BDHA26-15	2-6	Linear	15	N-F	245	195	407	Al	Detail
RM-BDHA28-12	2-8	Linear	12	SMA-F	104	78	127	Al	Detail
RM-BDHA218-10	2-18	Linear	10	SMA-F	106	89.9	142	Al	Detail
RM-BDHA220-12	2-20	Linear	12	SMA-F	104	78	127	Al	Detail
RM-BDHA48-22	4-8	Linear	22	SMA-F	338	268	603	Al	Detail
RM-BDHA48-20	4-8	Linear	20	SMA-F	290	240	585	Al	Detail
RM-BDHA440-13	4-40	Linear	13	2.4-F 2.92-F	60.4	47.7	58.3	Al	Detail
RM-BDHA618-10A	6-18	Linear	10	SMA-F	54	38	52.2	Al	Detail
RM-BDHA618-10B	6-18	Linear	10	N-F	58.1	52.8	116	Al	Detail
RM-BDHA618-12	6-18	Linear	12	SMA-F	43.7	43	69	Al	Detail
RM-BDHA618-15A	6-18	Linear	15	2.92-KFD	64.9	56.9	112	Al	Detail
RM-BDHA618-15B	6-18	Linear	15	SMA-F	76.07	64.07	161	Al	Detail
RM-BDHA667-13	6-67	Linear	13	1.85-F	43.6	40.1	35.8	Al	Detail
RM-BDHA818-10	8-18	Linear	10	SMA-F	55	43.1	99	Al	Detail
RM-BDHA818-20A	8-18	Linear	20	2.92-F	101	228	119	Al	Detail
RM-BDHA818-22	8-18	Linear	22	SMA-F	196	158	399	Al	Detail

Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-BDHA1840-13	18-40	Linear	13	2.92-F	30.6	27.9	38.2	Al	Detail
RM-BDHA1840-14	18-40	Linear	14	2.92-F	40	40	44	Al	Detail
RM-BDHA1840-15A	18-40	Linear	15	2.92-F	63.7	47.8	80	Al	Detail
RM-BDHA1840-15B	18-40	Linear	15	2.92-F	36.1	31.1	66.1	Al	Detail
RM-BDHA1840-20	18-40	Linear	20	2.92-F	89	42	158	Al	Detail
RM-BDHA1850-15	18-50	Linear	15	2.4-F	36	31	71.2	Al	Detail
RM-BDHA1850-20	18-50	Linear	20	2.4-F	49.1	42.1	98.2	Al	Detail
RM-BDHA3337-25	33-37	Linear	25	2.92-F	77.8	62.7	221	Al	Detail
RM-BDHA10110-13	10-110	Linear	13	1.0mm-F	41	41	65	Al	Detail
RM-BDHA18110-14	18-110	Linear	14	1.0mm-F	41	41	65	Al	Detail
RM-BDHA818-20B	8-18	Linear	20	SMA-F	133.86	16.9	231	Al	Detail
RM-BDHA18-10	1-8	Linear	10	N-F	2445	169.4	318	Al	Detail
RM-BDHA2242-10	2.2-4.2	Linear	10	N-F	128	112	136	Al	Detail
RM-BDHA130-12	1-30	Linear	12	2.92-F	77	164	141	Al	Detail
RM-BDHA16-10	1-6	Linear	10	SMA-F	160	120	160	Al	Detail
RM-BDHA16-15	1-6	Linear	15	SMA-F	430	301	452	Al	Detail
RM-BDHA2936-15	2.9-3.6	Linear	15	N-F	254	194	353	Al	Detail
RM-BDHA2936-20	2.9-3.6	Linear	20	N-F	424	324	593	Al	Detail
RM-BDHA440-14	4-40	Linear	14	SMA-F	150	90	129	Al	Detail
RM-BDHA28-18	2-8	Linear	18	SMA-F	439.92	439.92	765.99	Al	Detail
RM-BDHA088-10	0.8-8	Linear	10	SMA-F	163	230	289	Al	Detail
RM-BDHA140-12	1-40	Linear	12	2.92-F	185	144	168	Al	Detail

3 Broadband Dual Polarized Horn Antenna

The broadband dual polarized horn antennas are a pair of ridge structures added to the waveguide part of the pyramidal horn and the horn opening part to expand the working frequency bandwidth of the pyramidal horn. These antennas have a wide frequency bandwidth, small size and other characteristics, are widely used in EMC testing, direction finding, reconnaissance, antenna measurement and other applications. Broadband double-ridged horn antennas with various gains and wavebeam width requirements can be customized according to customer needs.



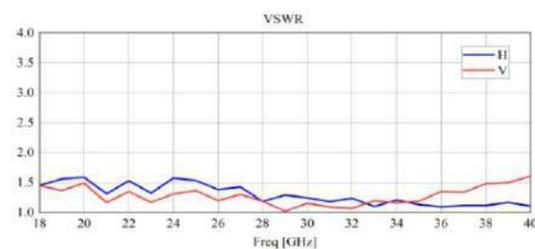
Frequency: 0.8-110GHz

VSWR: ≤2.5

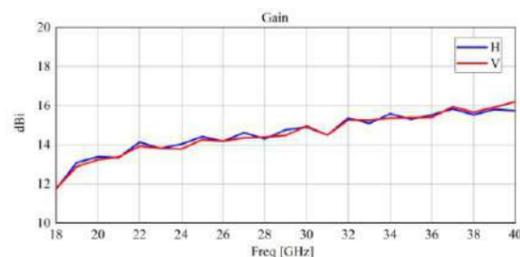
Gain: 6-25dBi

Interface: Connector

Volt Standing Wave Ratio



Gain



Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-BDPHA082-6	0.8-2	Dual Linear	6	SMA-F	194	194	214	Al	Detail
RM-BDPHA083-7	0.8-3	Dual Linear	7	SMA-F	210	210	272	Al	Detail
RM-BDPHA0812-11	0.8-12	Dual Linear	11	SMA-F	329	329	444	Al	Detail
RM-BDPHA0818-12	0.8-18	Dual Linear	12	SMA-F	202	216	202	Al	Detail
RM-BDPHA218-15	2-18	Dual Linear	15	SMA-F	303	211	211	Al	Detail
RM-BDPHA618-12	6-18	Dual Linear	12	SMA-F	43	43	74	Al	Detail
RM-BDPHA1840-15A	18-40	Dual Linear	15	2.92-F	37	38	62.9	Al	Detail
RM-BDPHA1854-15	18-54	Dual Linear	15	2.4mm-F	61.3	61	67.2	Al	Detail
RM-BDPHA3238-14	32-38	Dual Linear	14	2.92-F	67.2	60	60	Al	Detail
RM-BDPHA4244-21	42-44	Dual Linear	21	SMA-F	30.9	33	95.8	Al	Detail
RM-BDPHA9395-22	93-95	Dual Linear	22	WR10	19.1	21	69.3	Cu	Detail
RM-BDPHA2042-14	20-42	Dual Linear	14	2.92-F	33.8	33.8	57	Al	Yes
RM-BDPHA1015-20	10-15	Dual Linear	20	2.92-F	198.3	118	121.3	Al	Yes
RM-BDPHA1840-15B	18-40	Dual Linear	15	2.4mm-F	35.2	63.5	35.2	Al	Yes
RM-BDPHA112-12	1-12	Dual Linear	12	SMA-F	161.8	167.6	228.2	Al	Yes
RM-BDPHA6245-12	6-24.5	Dual Linear	12	SMA-F	42	42	81.5	Al	Yes
RM-BDPHA412-10	4-12	Dual Linear	10	SMA-F	62.6	78.4	152	Al	Yes
RM-BDPHA212-7	2-12	Dual Linear	7	SMA-F	74.96	74.96	98.61	Al	Yes
RM-BDPHA046-10	0.4-6	Dual Linear	10	SMA-F	527	554	527	Al	Yes
RM-BDPHA046-11	0.4-6	Dual Linear	11	SMA-F	550	510	504	Al	Yes
RM-BDPHA218-15	2-18	Dual Linear	15	SMA-F	141	206	141	Al	Yes
RM-BDPHA1840-18	18-40	Dual Linear	18	2.92-F	61	61	106	Al	Yes
RM-BDPHA023-10	0.2-3	Dual Linear	10	N-F	270	440	270	Al	Yes

4 Conical Horn Antenna

Conical horn antennas are available in linear, circular (RHCP/LHCP), dual linear and dual circular. The horns of RF MISO's conical horn antennas are precisely manufactured to minimize aperture size and tolerance to flare angles. These horns are ideal for antenna far field testing, RF radiation measurements and other applications.



Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-CNHA3-15	220-325	Linear	15	WR3	12	19.1	19.1	Cu	Detail

5 Conical Dual Polarized Horn Antenna

The conical dual polarized horn antennas adopt quad-ridged waveguide and dual-port feed to achieve broadband and dual-polarization respectively. A antenna not only has ultra-wideband characteristics, high isolation, but also has the advantages of small size, high gain and aperture efficiency.



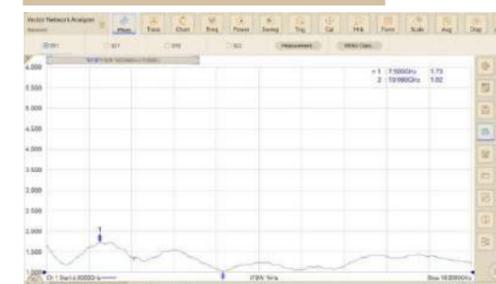
Frequency: 0.8-110GHz

VSWR: ≤2.5

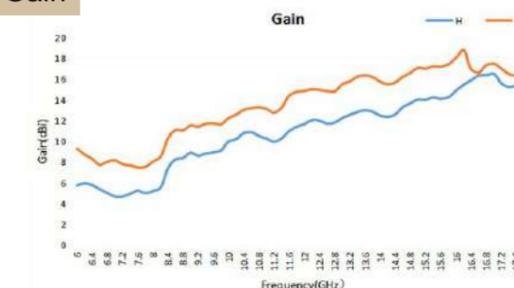
Gain: 6-25dBi

Interface: Connector

Volt Standing Wave Ratio



Gain

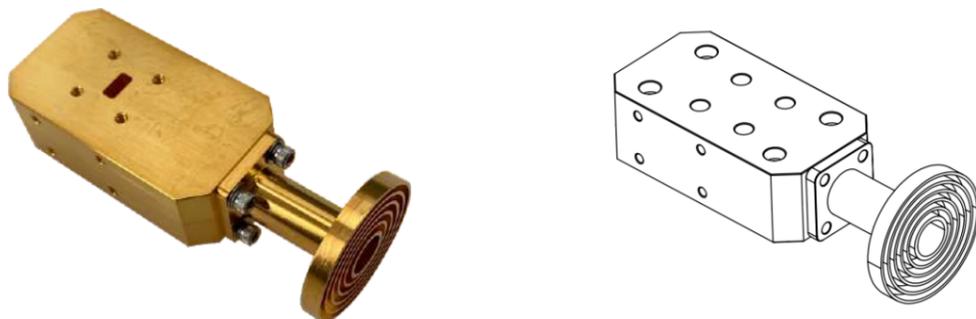


Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-CDPHA082-8	0.8-2	Dual Linear	8	SMA-F	268	268	386	Al	Detail
RM-CDPHA0818-12	0.8-18	Dual Linear	12	SMA-F	198	198	295	Al	Detail
RM-CDPHA26-12	2-6	Dual Linear	12	SMA-F	309	196	196	Al	Detail
RM-CDPHA218-15	2-18	Dual Linear	15	SMA-F	147	147	276	Al	Detail
RM-CDPHA618-17	6-18	Dual Linear	17	SMA-F	132	132	237	Al	Detail
RM-CDPHA618-20	6-18	Dual Linear	20	2.92-F	125	125	236	Al	Detail
RM-CDPHA2343-20	23-43	Dual Linear	20	2.92-F	61.7	62	169	Al	Detail
RM-CDPHA3238-21	32-38	Dual Linear	21	2.92-F	43.1	43	110	Al	Detail
RM-CDPHA26540-20	26.5-40	Dual Linear	20	2.92-F	170	59.5	68	Al	Detail
RM-CDPHA3337-20	33-37	Dual Linear	20	2.92-F	55	55	146	Al	Detail
RM-CDPHA4244-18	42-44	Dual Linear	18	2.4mm-F	34.8	35	66.5	Cu	Detail
RM-CDPHA9395-19A	93-95	Dual Linear	19	WR-10	19.1	19	65	Cu	Detail
RM-CDPHA28-13	2-8	Dual Linear	13	N-F	275	274	228	Al	Yes
RM-CDPHA440-10	4-40	Dual Linear	10	2.92-F	66	66	125	Al	Yes
RM-CDPHA218-12	2-18	Dual Linear	12	SMA-F	140	140	291.2	Al	Yes
RM-CDPHA93100-20	93-100	Dual Linear	20	WR10	19.1	33.2	45.3	Cu	Yes

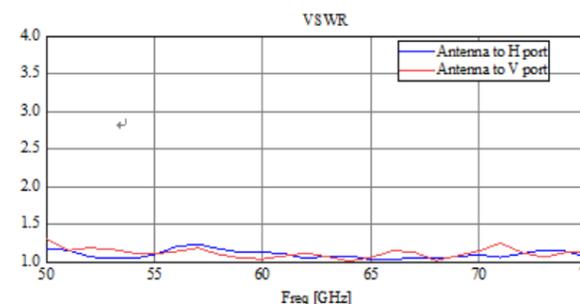
6 OMT Dual Polarized Antenna

The OMT dual-polarized horn antennas break through the limitations of the quad-ridged horn antenna and achieve high isolation. So his application is more and more extensive. By matching with various antennas, such as conical antennas, rectangular antennas, lens antennas, etc., various antennas can be obtained to suit any system application. The frequency range of RF MISO's OMT antenna is 10-110GHz, the material is copper, the surface is gold-plated, and the connection structure is strong.

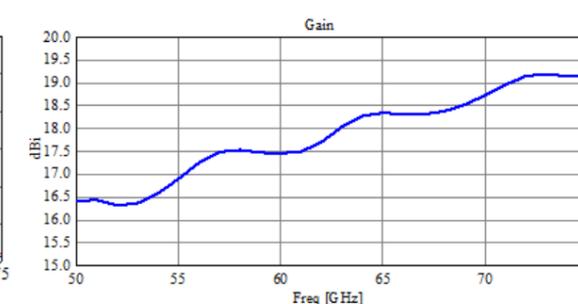
For Example



Volt Standing Wave Ratio



Gain



Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-DPHA2442-10	24-42	Dual Linear	10	Wr28	31.9	33	85.5	Brass	Detail
RM-DPHA3350-17	33-50	Dual Linear	17	WR22	40.9	41	73.5	Brass	Detail
RM-DPHA5075-18	50-75	Dual Linear	18	WR15	27.9	28	56	Brass	Detail
RM-DPHA6090-16	60-90	Dual Linear	16	WR12	27.9	28	51.7	Brass	Detail
RM-DPHA75110-18	75-110	Dual Linear	18	WR10	27.9	28	52.2	Brass	Detail
RM-DPHA75110-20	75-110	Dual Linear	20	WR10	27.9	28	61.2	Brass	Detail
RM-DPHA2030-15	20-30	Dual Linear	15	SMA-F	39.6	69.4	83.9	Al	Detail
RM-DPHA6-25	110-170	Dual Linear	25	WR6	19.1	19.1	40.32	Cu	Detail
RM-DPHA3-25	220-325	Dual Linear	25	WR3	19.1	19.1	21.76	Cu	Detail
RM-DPHA3-20	220-325	Linear	20	WR3	19.1	19.1	9.74	Cu	Detail
RM-DPHA4244-21	42-44	Dual Linear	21	SMA-F	30	32	95	Al	Detail

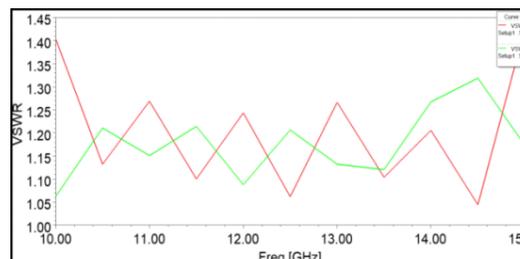
7 Circular Polarized Horn Antenna

The circular polarized horn antennas are composed of a circular polarizer and a square horn antenna or a conical horn antenna. It is equalized in the azimuth plane and the elevation plane. The circular polarized horn antenna provided by our company can cover any frequency band from 1GHz to 110GHz, and the polarization mode can be left-handed circular polarization, right-handed circular polarization or dual circular polarization.

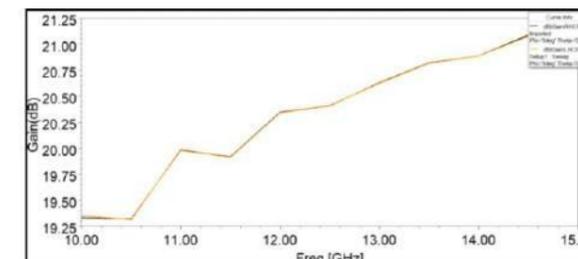
For Example



Volt Standing Wave Ratio



Gain



Model	Frequency (GHz)	Polarization	Gain (dBi)	VSWR	Interface	Dimension(mm)			Data sheet
						W	H	L	
RM-CPHA12-10	1-2	L-CP/R-CP	10	≤2	waveguide	/	/	/	Detail
RM-CPHA12-10	1-2	L-CP/R-CP	10	≤2	N-F	/	/	/	Detail
RM-CPHA24-10	2-4	L-CP/R-CP	10	≤2	waveguide	/	/	/	Detail
RM-CPHA24-10	2-4	L-CP/R-CP	10	≤2	N-F	/	/	/	Detail
RM-CPHA48-15	4-8	L-CP/R-CP	15	≤2	waveguide	417	81	67	Detail
RM-CPHA48-15	4-8	L-CP/R-CP	15	≤2	N-F/SMA-F	/	/	/	Detail
RM-CPHA82124-15	8.2-12.4	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA82124-15	8.2-12.4	L-CP/R-CP	15	≤2	SMA-F	/	/	/	Detail
RM-CPHA818-15	8-18	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA818-15	8-18	L-CP/R-CP	15	≤2	SMA-F	/	/	/	Detail
RM-CPHA1114-15	11-14	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA1114-15	11-14	L-CP/R-CP	15	≤2	N-F/SMA-F	/	/	/	Detail
RM-CPHA1840-15	18-40	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA1840-15	18-40	L-CP/R-CP	15	≤2	2.92mm-F	/	/	/	Detail
RM-CPHA235435-15	23.5-43.5	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA235435-15	23.5-43.5	L-CP/R-CP	15	≤2	2.4mm-F/2.92mm-F	/	/	/	Detail
RM-CPHA3643-15	36-43	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA3643-15	36-43	L-CP/R-CP	15	≤2	2.4mm-F	/	/	/	Detail
RM-CPHA6486-15	64-86	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA6486-15	64-86	L-CP/R-CP	15	≤2	1.0mm-F	/	/	/	Detail
RM-CPHA7599-15	75-99	L-CP/R-CP	15	≤2	waveguide	/	/	/	Detail
RM-CPHA7599-15	75-99	L-CP/R-CP	15	≤2	1.0mm-F	/	/	/	Detail
RM-CPHA95105-16	9.5-10.5	L-CP/R-CP	16	1.2:1MAX	N-F	68.4	68.4	173	Detail
RM-CPHA1826-15	18-26.5	R-CP	15	1.1	SMA-F	40	58	211	Detail
RM-CPHA2232-18	22-32	L-CP/R-CP	18	1.5	2.92-F	39	39	204	Detail
RM-CPHA2427-20	24.5-27.5	LHCP	20	1.1	2.92-F	53	53	200	Detail
RM-CPHA1015-20	10-15	LHCP	20	1.2	SMA-F	112	118	645	Detail

8 Dual Circular Polarized Horn Antenna

RF Miso's dual circular polarized horn antennas are implemented in two ways. One is Ortho-mode Transducers (OMT) with a waveguide polarizer, which is combined with a standard horn antenna to form an antenna. The other is a 3dB coupler plus Ortho-mode Transducers (OMT), with a standard horn antenna to form the antenna. Precision machining strictly guarantees the mouth size and opening angle of these horn antennas. These horn antennas are very suitable for antenna far-field testing, RF radiation testing and some other applications. It can be customized according to the needs of users.

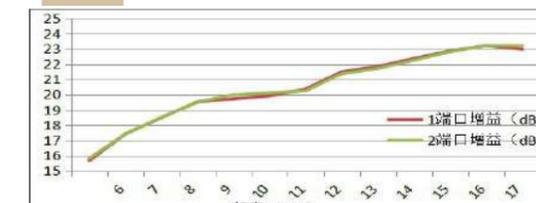
For Example



Volt Standing Wave Ratio



Gain



Model	Frequency (GHz)	Polarization	Gain (dBi)	VSWR	Interface	Dimension(mm)			Data sheet
						W	H	L	
RM-DCPHA82124-15	8.2-12.4	Dual Circular	15	≤2	SMA-F	/	/	/	Detail
RM-DCPHA1114-15	11-14	Dual Circular	15	≤2	SMA-F	/	/	/	Detail
RM-DCPHA238312-15	23.8-31.2	Dual Circular	15	≤2	2.92mm-F	/	/	/	Detail
RM-DCPHA105145-20	10.5-14.5	Dual Circular	20	1.5	2.92mm-F	115	109	210	Detail
RM-DCPHA212-10	2-12	Dual Circular	10	≤2	SMA-F	75	108.66	75	Detail
RM-DCPHA1840-12	18-40	Dual Circular	12	≤2	2.92mm-F	40	50	46	Detail
RM-DCPHA1826-15	18-26.5	RHCP	15	<1.5	SMA-F	77	93	184	Detail
RM-DCPHA26-10	2-6	Dual Circular	10	<2	SMA-F	140	175	140	Detail
RM-DCPHA15-10	1-5	Dual Circular	10	1.5	SMA-F	208	208	265	Detail
RM-DCPHA4516-10	4.5-16	Dual Circular	10	<1.5	SMA-F	81	81	100	Detail
RM-DCPHA1218-10	12-18	Dual Circular	10	1.4	SMA-F	43	43	82	Detail
RM-CPHA218-16	2-18	Dual Circular	16	1.5	SMA-F	143	143	282	Detail
RM-CPHA618-19	6-18	Dual Circular	19	1.5	SMA-F	240	132	146	Detail
RM-CPHA818-13	8-18	Dual Circular	13	1.5	SMA-F	215.9	32.4	62.5	Detail
RM-CPHA1840-12	18-40	Dual Circular	12	1.5	2.92-F	105.7	17.9	38	Detail
RM-CPHA09225-13	0.9-2.25	Dual Circular	13	2	N-F	1896.7	280.0	440.0	Detail
RM-CPHA26540-20	26.5-40	Dual Circular	20	1.5	2.92-F	170	59.5	68	Detail
RM-CPHA82124-20	8.2-12.4	Dual Circular	20	1.5	SMA-F	505.2	164.9	182.8	Detail
RM-CPHA48-12	4-8	L-CP/R-CP	12	1.3	SMA-F	100	128	466	Detail

9 Corrugated Horn Antenna

1. The radiation pattern is symmetric (axisymmetric).
 2. Low sidelobe, can reach -25dB typical value in the whole waveguide frequency range, and can reach -40dB typical value in narrow band. Low cross polarization, low return loss.
 3. Linear, dual linear, circular polarized square or waveguide output can be customized.
- Can be customized according to requirements.
4. Different installation methods can be selected, the corresponding



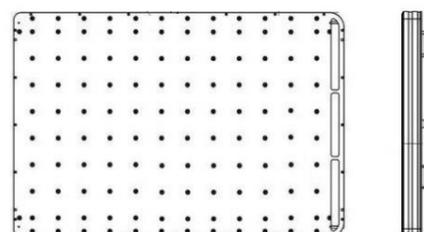
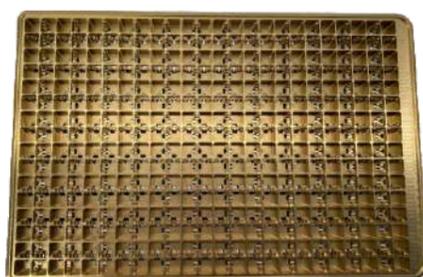
Model	Frequency (GHz)	Polarization	Waveguide	Gain(dBi)	VSWR	Interface
RM-CHA90-10	8.2-12.4	Linear	WR90	10	1.5	FBP100
RM-CHA90-10		Linear		10	1.5	SF/NF
RM-CHA90-15		Linear		15	1.5	FBP100
RM-CHA90-15		Linear		15	1.5	SF/NF
RM-CHA90-20		Linear		20	1.5	FBP100
RM-CHA90-20		Linear		20	1.5	SF/NF
RM-CHA75-10	10.0-15.0	Linear	WR75	10	1.5	FBP120
RM-CHA75-10		Linear		10	1.5	SF/NF
RM-CHA75-15		Linear		15	1.5	FBP120
RM-CHA75-15		Linear		15	1.5	SF/NF
RM-CHA75-20		Linear		20	1.5	FBP120
RM-CHA75-20		Linear		20	1.5	SF/NF
RM-CHA62-10	12.4-18.0	Linear	WR62	10	1.5	FBP140
RM-CHA62-10		Linear		10	1.5	SF/NF
RM-CHA62-15		Linear		15	1.5	FBP140
RM-CHA62-15		Linear		15	1.5	SF/NF
RM-CHA62-20		Linear		20	1.5	FBP140
RM-CHA62-20		Linear		20	1.5	SF/NF
RM-CHA51-10	15.0-22.0	Linear	WR51	10	1.5	FBP180
RM-CHA51-10		Linear		10	1.5	SF
RM-CHA51-15		Linear		15	1.5	FBP180
RM-CHA51-15		Linear		15	1.5	SF
RM-CHA51-20		Linear		20	1.5	FBP180
RM-CHA51-20		Linear		20	1.5	SF
RM-CHA42-10	18.0-26.5	Linear	WR42	10	1.5	FBP220
RM-CHA42-10		Linear		10	1.5	SF/KF/3.5F
RM-CHA42-15		Linear		15	1.5	FBP220
RM-CHA42-15		Linear		15	1.5	SF/KF/3.5F
RM-CHA42-20		Linear		20	1.5	FBP220
RM-CHA42-20		Linear		20	1.5	SF/KF/3.5F
RM-CHA34-10	22.0-33.0	Linear	WR34	10	1.5	FBP260
RM-CHA34-10		Linear		10	1.5	KF
RM-CHA34-15		Linear		15	1.5	FBP260
RM-CHA34-15		Linear		15	1.5	KF
RM-CHA34-20		Linear		20	1.5	FBP260
RM-CHA34-20		Linear		20	1.5	KF
RM-CHA28-10	26.5-40.0	Linear	WR28	10	1.5	FBP320
RM-CHA28-10		Linear		10	1.5	KF/2.4F
RM-CHA28-15		Linear		15	1.5	FBP320
RM-CHA28-15		Linear		15	1.5	KF/2.4F
RM-CHA28-20		Linear		20	1.5	FBP320
RM-CHA28-20		Linear		20	1.5	KF/2.4F

Model	Frequency (GHz)	Polarization	Waveguide	Gain(dBi)	VSWR	Interface	
RM-CHA28-15	23.5-43.5	Dual Linear	WR28	15	1.5	FBP320	
RM-CHA28-15	23.5-40.0	Dual Linear		15	1.5	KF	
RM-CHA28-15	23.5-43.5	Dual Linear		15	1.5	2.4F	
RM-CHA28-20	23.5-43.5	Dual Linear		20	1.5	FBP320	
RM-CHA28-20	23.5-40.0	Dual Linear		20	1.5	KF	
RM-CHA28-20	23.5-43.5	Dual Linear		20	1.5	2.4F	
RM-CHA28-20	24.5-50.0	Dual Linear		20	1.5	FBP320	
RM-CHA28-20		Dual Linear		20	1.5	2.4F	
RM-CHA22-10	33.0-50.0	Linear		WR22	10	1.5	FUGP400
RM-CHA22-10		Linear			10	1.5	2.4F
RM-CHA22-15		Linear			15	1.5	FUGP400
RM-CHA22-15		Linear			15	1.5	2.4F
RM-CHA22-20		Linear	20		1.5	FUGP400	
RM-CHA22-20		Linear	20		1.5	2.4F	
RM-CHA19-10	40.0-60.0	Linear	WR19	10	1.5	FUGP500	
RM-CHA19-10		Linear		10	1.5	1.85F	
RM-CHA19-15		Linear		15	1.5	FUGP500	
RM-CHA19-15		Linear		15	1.5	1.85F	
RM-CHA19-20		Linear		20	1.5	FUGP500	
RM-CHA19-20		Linear		20	1.5	1.85F	
RM-CHA15-10	50.0-75.0	Linear	WR15	10	1.5	FUGP620	
RM-CHA15-10		Linear		10	1.5	1.85F	
RM-CHA15-15		Linear		15	1.5	FUGP620	
RM-CHA15-15		Linear		15	1.5	1.85F	
RM-CHA15-20		Linear		20	1.5	FUGP620	
RM-CHA15-20		Linear		20	1.5	1.85F	
RM-CHA12-10	60.0-90.0	Linear	WR12	10	1.5	FUGP740	
RM-CHA12-15		Linear		15	1.5	FUGP740	
RM-CHA12-20		Linear		20	1.5	FUGP740	
RM-CHA10-10	75.0-110.0	Linear	WR10	10	1.5	FUGP900	
RM-CHA10-15		Linear		15	1.5	FUGP900	
RM-CHA10-20		Linear		20	1.5	FUGP900	
RM-CGHA5-22	140-220	Linear	WR5	22	1.6		
RM-CGHA610-15	6.5-10.6	Linear		15	<1.5		
RM-CGHA75-20	10-15	LHCP	WR75	20	<1.3		

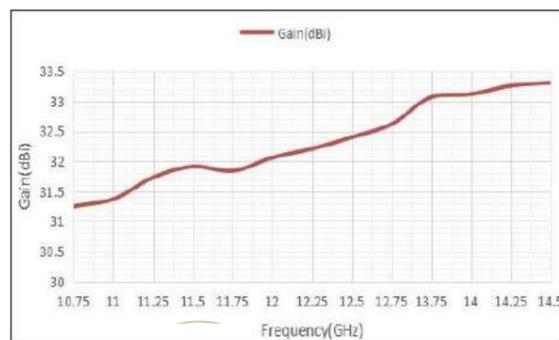
10 Planar Antenna

Antennas system composed of many identical single antennas (such as symmetrical antennas) arranged in a certain order is also called an antenna array. The independent units that make up the antenna array are called array elements or antenna elements. If the array elements are arranged in a straight line or on a plane, it is called a linear array or a planar array.

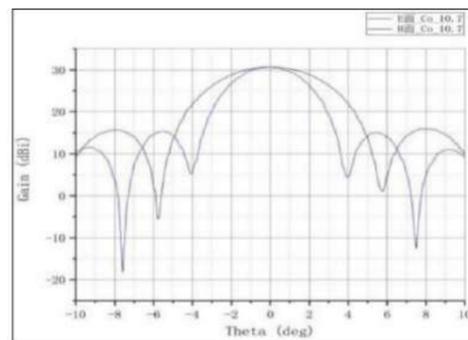
For Example



Gain



Patterns



Model	Frequency (GHz)	Gain(dBi)	Interface	Dimension(mm)			Material	Datasheet
				W	H	L		
RM-PA1075145-32	10.75-14.5	32	WR75/WR62	460	304	32.2	Al	Detail
RM-PA10145-30	10-14.5	30	WR75	288	223	46.5	Al	Detail
RM-SWA910-22	9-10	22	SAM-F	260	89	20	Al	Detail
RM-PA7087-43	71-76	>43	WR12	450	16	370	Al	Detail
	81-86							
RM-PA17731B	27.5-31.0	≥ 40.0dBi+20log	/	430	290	25	Al	Detail
	17.7-21.2	≥ 36.5dBi+20log						
RM-PA107145A	13.75-14.5	≥32dBi+20log	/	290	290	25	Al	Detail
	10.7-12.75	≥31dBi+20log						
RM-PA107145B	13.75-14.5	> 37.5dBi+20log	/	1150	290	25	Al	Detail
	10.7-12.75	≥ 36.5dBi+20log		580	150	25		

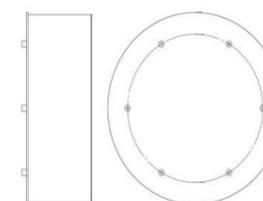
11 Planar Spiral Antenna

Planar Spiral Antennas are antennas with a helical shape. Each consists of a metal helix with good electrical conductivity, usually fed by a coaxial line, the core wire of the coaxial line is connected to one end of the helix,

The outer conductor of the coaxial line is connected to the grounded metal mesh (or plate). The radiation direction of the helical antenna is related to the circumference of the helix when the circumference of the helix is much smaller than one wavelength,

The direction of the strongest radiation is perpendicular to the helical axis, when the circumference of the helix is on the order of one wavelength and the strongest radiation appears in the direction of the helical axis.

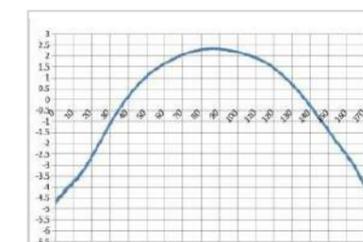
For Example



Volt Standing Wave Ratio



Gain



Model	Frequency (GHz)	Polarization	Gain (dBi)	VSWR	Connector	Dimension(mm)			Datasheet
						W	H	L	
RM-PSA0756-3	0.75-6	LHCP	3	2.0:1	SMA-50F	194	194	77.5	Detail
RM-PSA052-6	0.5-2	LHCP	-6	1.5:1	SMA-50F	/	/	/	Detail
RM-PSA084-0	0.8-4	LHCP	0	1.5:1	SMA-50F	/	/	/	Detail
RM-PSA086-0	0.8-8	LHCP	0	1.5:1	SMA-50F	/	/	/	Detail
RM-PSA18-2	1-8	LHCP	2	1.5:1	SMA-50F	/	/	/	Detail
RM-PSA118-4	1-18	LHCP	4	2.0:1	SMA-50F	/	/	/	Detail
RM-PSA218-2V	2-18	RHCP	2	1.5	SMA-F	83	48	83	Detail
RM-PSA218-2R	2-18	RHCP	2	1.5:1	SMA-F	82.55	82.55	48.26	Detail
RM-PSA1840-5	18-40	RHCP	5	<2.5	2.92-F	33.2	36.9	33.2	Detail

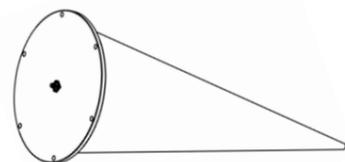
Model	Frequency (GHz)	Polarization	Gain (dBi)	VSWR	Connector	Dimension(mm)			Data sheet
						W	H	L	
RM-PSA48-2	4-8	LHCP	2	1.5:1	SMA-50F	/	/	/	Detail
RM-PSA418-3	4-18	LHCP	3	2.0:1	SMA-50F	/	/	/	Detail
RM-PSA618-0	6-18	LHCP	0	2.0:1	SMA-50F	/	/	/	Detail
RM-PSA818-0	8-18	LHCP	0	2.0:1	SMA-50F	/	/	/	Detail
RM-PSA18265-0	18-26.5	LHCP	0	1.5:1	2.92mm-50F	/	/	/	Detail
RM-PSA1840-2	18-40	LHCP	2	2.0:1	2.92mm-50F	/	/	/	Detail

12 Log Spiral Antenna

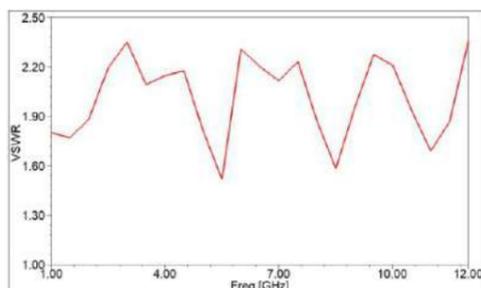
Circular polarization enables the logarithmic helical antenna to quickly discover electromagnetic frequency radiation sources;

1. Wide bandwidth.
2. Up to ten octaves.
3. The outer helix can dissipate heat better.

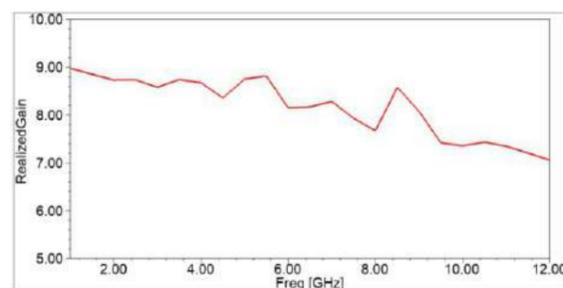
For Example



Volt Standing Wave Ratio



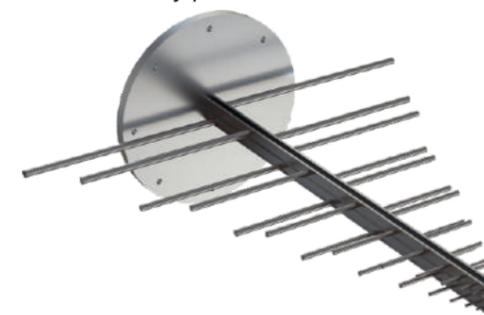
Gain



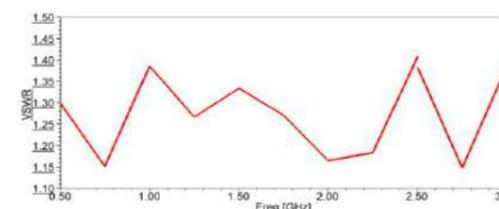
Model	Frequency (GHz)	Polarization	Gain (dBi)	VSWR	Connector	Dimension(mm)			Data sheet
						W	H	L	
RM-LSA021-4	0.2-1.0	RHCP/LHCP	-4	3.0	N-50F	/	/	/	Detail
RM-LSA110-3	1.0-10.0	RHCP/LHCP	-3	3.0	N-50F	/	/	/	Detail
RM-LSA112-3R	1-12	RHCP	3	2.0:1	N-50F	167	167	237	Detail
RM-LSA112-3.6	1-12	RHCP	3.6	1.8	SMA-F	167	167	237	Detail
RM-LSA112-8	1-12	RHCP	8	<2.5	SMA-F	155	155	420	Detail
RM-LSA011-4	0.1-1	RHCP/LHCP	4	2.5	SMA-F	1275	1275	1000	Detail

13 Log Periodic Antenna

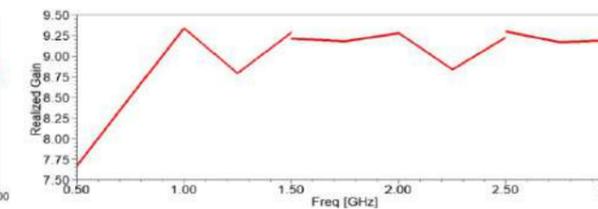
The electrical characteristics of the log-periodic antenna, such as impedance, pattern, gain, and standing wave ratio, change periodically with the logarithm of the frequency, and remain basically unchanged in a wide frequency band. The antenna series can cover 100:1 ultra-wideband bandwidth. The gain can reach as high as 9dB. The hybrid design scheme is adopted at extremely low frequencies, so that the size of the antenna has a high integration with respect to the wavelength. The log-periodic antenna is a light-weight, medium-gain log-periodic dipole antenna that is designed for transmitting and receiving signals in a wide frequency range, and all adopt linear polarization, which is easy to adjust the polarization on any plane.



Volt Standing Wave Ratio



Gain

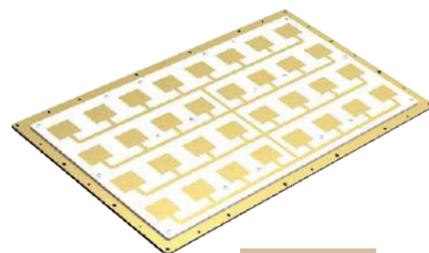


Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-LPA0253-8	0.25-3	Linear	8	N-F	840	25	2040	Al	Detail
RM-LPA042-6	0.4-2	Linear	6	N-F	459	19.4	833	Al	Detail
RM-LPA056-8	0.5-6	Linear	8	N-F	398	25	1030	Al	Detail
RM-LPA0033-6	0.03-3	Linear	6	N-F	1397	1767	1449	Al	Detail
RM-LPA032-8	0.3-2	Linear	8	N-F	873.6	855.66	62	Al	Detail
RM-LPA012-6	0.1-2	Linear	6	N-F	1464.5	82	1503.5	Al	Detail
RM-LPA043-6	0.4-3	Linear	6	N-F	713.1	62	713.1	Al	Detail
RM-LPA052-7	0.5-2	Linear	7	N-F	495.6	62	500	Al	Detail
RM-LPA053-6	0.5-3	Linear	6	N-F	319.2	76.8	329.2	Al	Detail
RM-LPA054-7	0.5-4	Linear	7	N-F	390.1	60	443.8	Al	Detail
RM-LPA058-6	0.5-8	Linear	6	N-F	536.3	51.8	574.4	Al	Detail
RM-LPA0254-7	0.25-4	Linear	7	N-F	713.1	62	751.1	Al	Detail
RM-LPA16-7	1-6	Linear	7	N-F	414.6	51.2	443.9	Al	Detail
RM-LPA022-6	0.2-2	Linear	6	N-50K	750	80	755	Al	Detail
RM-DLPA022-7	0.2-2	Dual Linear	7	N-F	879	879	1067	Al	Detail

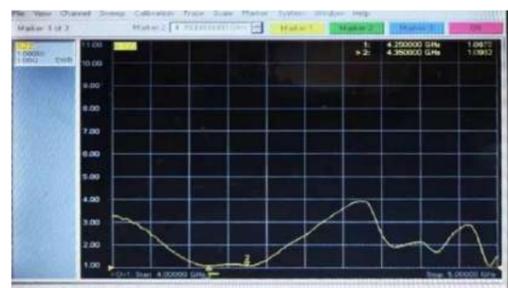
14 Microstrip Array Antenna

The microstrip array antennas are on a thin dielectric substrate, one side is attached with a thin metal layer as a ground plane, and the other side is made of a metal patch of a certain shape by photolithography and etching.

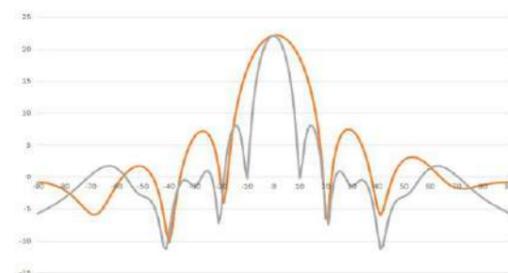
An antenna formed by feeding a patch with a microstrip line or a coaxial probe.



Volt Standing Wave Ratio



Patterns



Model	Frequency (GHz)	Gain (dBi)	VSWR	Connector	Impedance(Ω)	Datasheet
RM-MAA041-15	0.4-1	15	2:1	N-F	50	Detail
RM-MAA12-15	1-2	15	2:1	N-F	50	Detail
RM-MAA2224-15	2.2-2.4	15	2:1	SMA	50	Detail
RM-MAA24-15	2-4	15	2:1	N/SMA	50	Detail
RM-MAA48-15	4-8	15	2:1	SMA	50	Detail
RM-MAA425535-20	4.25-4.35	20	2:1	N-F	50	Detail
RM-MAA7479-15	7.4-7.9	15	2:1	SMA	50	Detail
RM-MAA81251-15	8-12.5	15	2:1	SMA	50	Detail
RM-MAA935985-15	9.35-9.85	15	2:1	SMA	50	Detail
RM-MAA945975-15	9.45-9.75	15	2:1	N/SMA	50	Detail
RM-MAA95105-15	9.5-10.5	15	2:1	N/SMA	50	Detail
RM-MAA125181-15	12.5-18	15	2:1	SMA	50	Detail
RM-MAA164516951-15	16.45-16.95	15	2:1	SMA	50	Detail
RM-MAA24255-15	24-25.5	15	2.5:1	SMA-50F	50	Detail
RM-MAA25527-22	25.5-27	22	/	2.92-F	50	Detail
RM-MPA2225-9	2.2-2.5	9	1.2	SAM-F	50	Detail
RM-MPA1725-9	1.7-2.5	9	1.4	SAM-F	50	Detail
RM-DAA-4471	4.4-7.5	17	2:1	N-F	50	Detail
RM-MA1315-33	13-15	33	1.5			Detail

15 Lens Horn Antenna

Lensed Horn Antennas (LHA) are tapered horn antennas with a plano-convex polytetrafluoroethylene (PTFE) lens added to the aperture to apply phase correction and achieve superior performance with minimal size.

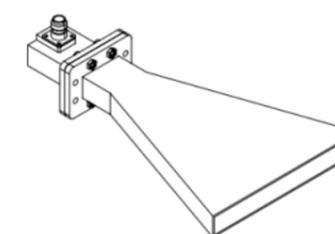
RF Miso optimizes all designs to exhibit not only high gain, but also low VSWR and low side lobes. Additionally, custom frequency bands and gain values can be requested.

LHAs are particularly useful when high gain is required with minimal size. Therefore, these antennas are widely used in radar applications, communication links, weather systems, etc.



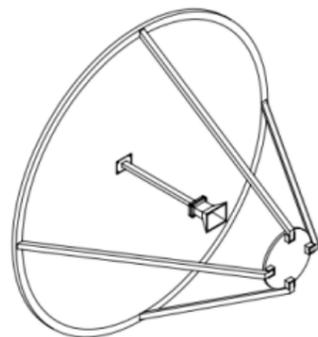
Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Datasheet
					W	H	L		
RM-LHA85115-30	8.5-11.5	Linear	30	N-Female	340	460	/	Al	Detail

16 Sector Antenna



Model	Frequency (GHz)	Polarization	Gain (dBi)	Interface	Dimension(mm)			Material	Datasheet
					W	H	L		
RM-SWHA187-10	3.95-5.85	Linear	10	SMA-Female	344.1	207.8	73.5	Al	Detail
RM-SWHA28-10	26.5-40	Linear	10	2.92-Female	63.9	40.2	24.4	Al	Detail
RM-SWHA284-13	2.6-3.9	Linear	13	N-Female	396.1	76.2	681.4	Al	Detail

17 Cassegrain Antenna



Model	Frequency (GHz)	Polarization	Gain (dBi)	Interface	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-CGA28-40	26.5-40	Linear	40	2.92-F	625	435	625	Al	Detail

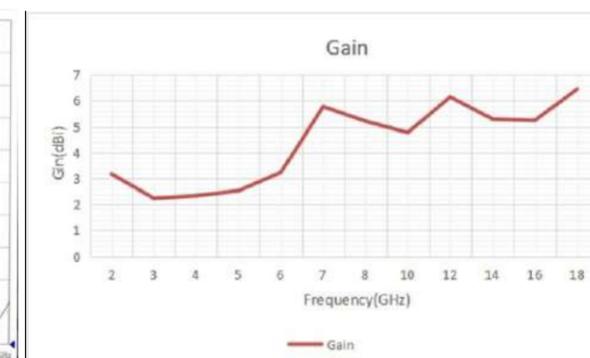
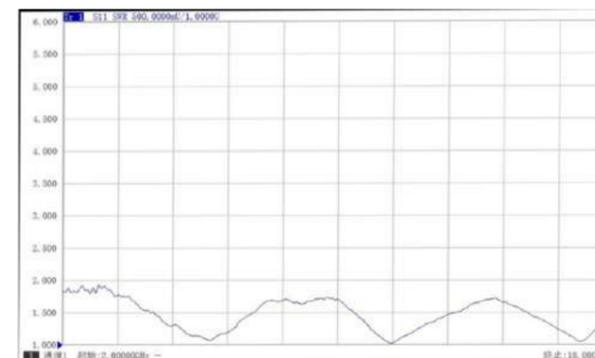
18 Biconical Antenna

The biconical antenna is a linearly polarized broadband omnidirectional antenna with a mounting base plate that can be used on the vehicle and on the ground; it can also be installed at the end of a metal pipe. This series of biconical antennas can be used for both transmitting and receiving. The typical gain in the maximum radiation direction is 1dBi. After adding an LNA, it can become an active antenna and the gain can be increased to more than 10dBi, but it can only be used for reception.



Volt Standing Wave Ratio

Gain



Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-BA812-2	8-12	Linear	2	N-F	38	38	32	Al	Yes
RM-BA218-4	2-18	Linear	4	SMA-F	86	86	83	Al	Yes
RM-BCA2428-4	24-28	Linear	4	2.92-KFD	26	26	27.1	Al	Yes
RM-BCA082-4	0.8-2	Linear	4	SMA-F	216	216	123.5	Al	Yes
RM-BCA1730-4	17-30	Vertical	4	N-F	52	62	52	Al	Yes
RM-BCA107145-4	10.7-14.5	Vertical	4	N-F	76	71	76	Al	Yes
RM-BCA3537-3	35-37	Dual Circular	3	2.92-F	50	69.92	50	Al	Yes
RM-BCA245-3	2-45	Linear	3	2.4-F	58	84	58	Al	Yes
RM-BCA812-70	8-12	Linear	70	N-F	106	64	106	Al	Yes
RM-BCA120-2	1-20	45° slant	2	SMA-F	76	49	76	Al	Yes
RM-BCA18-2	1-8	Linear	2	SMA-F	120	118	120	Al	Yes

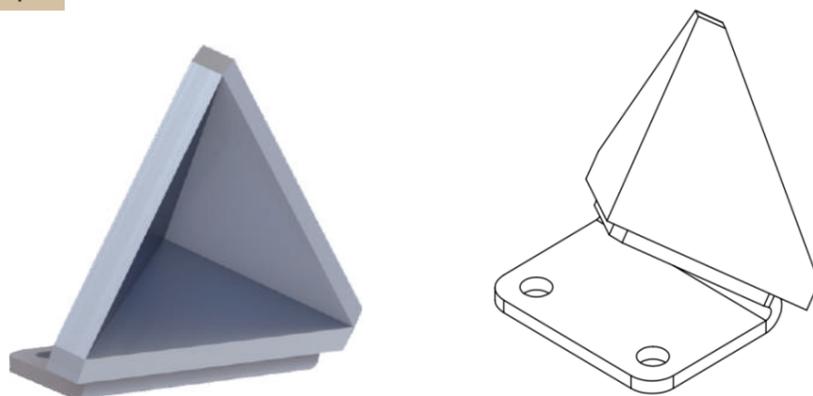
19 Triangular Reflector

RF Miso triangular reflectors are used for accurate simulation of radar targets and radar system calibration. The standard side length range of TCR is 18-1016 mm, the material is aluminum, and the surface has a golden chemical film (color conductive oxidation). The TCR has threaded mounting holes for easy mounting on a tripod for quick system setup. We can customize sizes and specifications as required.

Features: side length 18mm-1016mm

High directivity and gain, low cost, easy installation, customizable

For Example



Model	Edge Lenth(mm)	Weight	Datasheet
RM-TCR18	18	0.00249	Detail
RM-TCR35.6	35.6	0.011	Detail
RM-TCR45.7	45.7	0.015	Detail
RM-TCR50	50	0.018	Detail
RM-TCR61	61	0.028	Detail
RM-TCR81.3	81.3	0.056	Detail
RM-TCR109.2	109.2	0.099	Detail
RM-TCR152.4	152.4	0.22 1	Detail
RM-TCR203.2	203.2	0.479	Detail
RM-TCR215.9	215.9	0.605	Detail
RM-TCR226.1	226.1	0.721	Detail
RM-TCR254	254	0.783	Detail
RM-TCR330	330	1.681	Detail
RM-TCR342.9	342.9	1.952	Detail
RM-TCR406.4	406.4	2.505	Detail
RM-TCR609.6	609.6	7.048	Detail
RM-TCR762	762	10.033	Detail
RM-TCR1016	1016	23.9 13	Detail
RM-TCR203	203	0.304	Detail

20 Waveguide Probe

RF Miso's waveguide probe antennas are often used to measure the gain of other antennas by comparing the signal levels of the probe antenna and the antenna under test, providing a solution for the test and calibration of the approach antenna. The probe antenna of RF MISO is mainly a standard waveguide input, the gain range is 22GHz-110GHz, the polarization method is linear polarization, the material is brass, and the surface is gold-plated. We can provide customers with absorbing materials that match the probe.



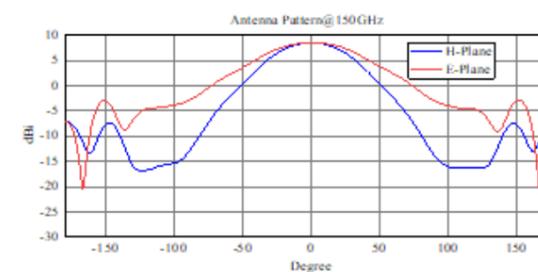
Frequency: 22-170GHz

VSWR: ≤1.5

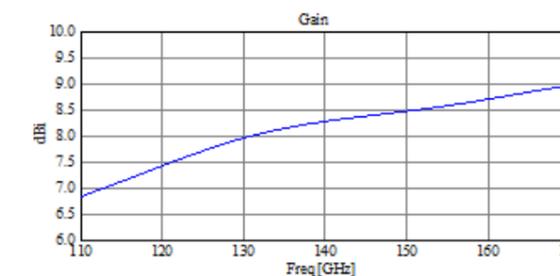
Gain: 8dBi

Interface: Waveguide

Patterns



Gain



Model	Frequency (GHz)	Polarizaiton	Gain (dBi)	Connector	Dimension(mm)			Material	Datasheet
					W	H	L		
RM-WPA6-8	110-170	Linear	8	WR6	19.1	19.1	25.4	Brass	Detail
RM-WPA8-8	90-140	Linear	8	WR8	19.1	19.1	25.4	Brass	Detail
RM-WPA10-8	75-110	Linear	8	WR10	19.1	19.1	25.4	Brass	Detail
RM-WPA12-8	60-90	Linear	8	WR12	19.1	19.1	30.5	Brass	Detail
RM-WPA15-8	50-70	Linear	8	WR15	19.1	19.1	38.1	Brass	Detail
RM-WPA19-8	40-60	Linear	8	WR19	28.6	28.6	50.8	Brass	Detail
RM-WPA22-8	33-50	Linear	8	WR22	28.6	28.6	50.8	Brass	Detail
RM-WPA28-8	26.5-40	Linear	8	WR28	19.1	19.1	71.1	Brass	Detail
RM-WPA34-8	22-33	Linear	8	WR30	22.2	22.2	86.4	Brass	Detail
RM-DCWPA1700-10	17-22	Dual Circular	10	SMA-F	93	30	121	Al	Detail
RM-DCWPA2731-10	27-31	Dual Circular	10	SMA-F	85	27	103	Al	Detail

Model	Frequency (GHz)	Polarization	Gain (dBi)	Connector	Dimension(mm)			Material	Data sheet
					W	H	L		
RM-WPA28-10	26.5-40	Linear	10		44	44	105	Cu	Detail
RM-WPA42-7	18-26.5	Linear	7		46	46	130	Cu	Detail
RM-WPA62-7	12.4-18	Linear	7		60	60	150	Cu	Detail
RM-WPA90-6	8.2-12.4	Linear	6		75	75	159	Cu	Detail
RM-WPA159-7	5.85-7.5	Linear	7		145	145	267	Cu	Detail
RM-WPA187-7	3.95-5.85	Linear	7		160	160	354	Cu	Detail
RM-WPA284-6	2.6-3.95	Linear	6		76	114	312	Cu	Detail
RM-WPA430-7	1.75-2.6	Linear	7		210	210	474	Cu	Detail
RM-WPA650-7	1.12-1.75	Linear	7		300	300	536	Cu	Detail
RM-WPA51-7	15-22	Linear	7		60	221	60	Al	Detail
RM-DBWPA26-5	2-6	Linear	5	N-F	120	120	398	Al	Detail
RM-DBWPA618-5	6-18	Linear	5	SMA-F	90	90	329	Al	Detail

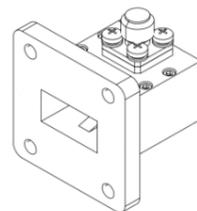
21 Right Angle Waveguide to Coaxial Adapter

Right Angle Waveguide to Coaxial Adapters are converter product that transmits microwaves in waveguides to coaxial lines in radar and communication trunk lines.

Waveguide types include standard types such as rectangle, flat rectangle, medium flat rectangle, circle, single ridge and double ridge, and connector types include N, TNC, SMA, 2.92mm (K), 2.4mm, etc.

Performance characteristics: low standing wave, low loss, high power, covering the working bandwidth of the waveguide main mode, the structure size and electrical performance can be customized according to user needs.

For Example



Volt Standing Wave Ratio



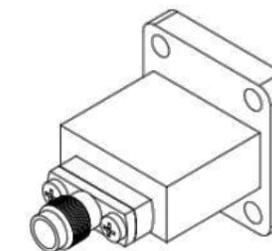
Insertion loss



Model	Frequency	VSWR	Insertion loss	Connector	Waveguide	Flange	Data sheet
RM-WCA10	75-110	≤1.6	≤1.2	1.0mm-50F	Wr10	FUGP900	Detail
RM-WCA12	60-90	≤1.6	≤1.2	1.0mm-50F	WR12	FUGP740	Detail
RM-WCA15-1.85	50-65	≤1.5	≤1.2	1.85mm-50F	WR15	FUGP620	Detail
RM-WCA15-1.0	50-75	≤1.5	≤1.0	1.0mm-50F	WR15	FUGP620	Detail
RM-WCA19-2.4	40-50	≤1.5	≤0.8	2.4mm-50F	WR19	FUGP500	Detail
RM-WCA19-1.85	40-60	≤1.5	≤0.8	1.85mm-50F	WR19	FUGP500	Detail
RM-WCA28	26.5-40	≤1.3	≤0.45	2.92-F/2.4mm(F)	WR28	FBP320	Detail
RM-WCA34	22-33	≤1.3	≤0.45	2.92-F	WR34	FBP260	Detail
RM-WCA42	18-26.5	≤1.3	≤0.4	SMA-F	WR42	FBP220	Detail
RM-WCA51	15-22	≤1.3	≤0.4	SMA-F	WR51	FBP180	Detail
RM-WCA62	12.4-18	≤1.3	≤0.4	SMA-F/3.5mm-F	WR62	FBP140	Detail
RM-WCA75	10-15	≤1.3	≤0.35	SMA-F	WR75	FBP120	Detail
RM-WCA90	8.2-12.4	≤1.3	≤0.35	SMA-F/3.5mm-F	WR90	FBP100	Detail
RM-WCA112	7.05-10	≤1.3	≤0.35	SMA-F/N-F	WR112	FBP84	Detail
RM-WCA137	5.85-8.2	≤1.3	≤0.3	N-F	WR137	FDP70	Detail
RM-WCA159	4.9-7.05	≤1.3	≤0.3	N-F	WR159	FDP58	Detail
RM-WCA187	3.95-5.85	≤1.3	≤0.3	N-F	WR187	FDP48	Detail
RM-WCA229	3.3-4.9	≤1.3	≤0.2	N-F/7mm	WR229	FDP40	Detail
RM-WCA284	2.6-3.95	≤1.3	≤0.2	N-F	WR284	FDP32	Detail
RM-WCA340	2.2-3.3	≤1.3	≤0.2	N-F	WR340	FDP26	Detail
RM-WCA430	1.7-2.6	≤1.3	≤0.2	N-F	WR430	FDP22	Detail
RM-WCA19	40-60	≤1.3	≤0.8	1.85mm-F	WR19	FUGP500	Detail
RM-WCA22	33-50	≤1.3	≤0.45	2.4mm-F	WR22	FUGP400	Detail
RM-WCA3337-6	33-37						Detail
RM-WCA770	0.95-1.45	1.3Max	0.2Max	N-F	WR770	FDP12	Detail

22 End Launch Waveguide To Coaxial Adapter

RF MISO provides a series of high-quality waveguide to coaxial adapters with a frequency range of 1.13-110GHz and features wide frequency, low insertion loss, and small standing waves. There are two structures: orthogonal 90° waveguide to coaxial converter and terminated 180° waveguide to coaxial converter, which can be selected according to different usage scenarios. Widely used in civil, military, aerospace, testing and measurement fields, etc., can be customized and produced according to customer requirements.



Model	Frequency	VSWR	Insertion loss	Connector	Waveguide	Flange	Data sheet
RM-EWCA28	26.5-40	≤1.2	≤0.5	2.4mm-F	WR28	FBP320	Detail
RM-EWCA42	18-26.5	≤1.3	≤0.4	2.92mm-F	WR42	FBP220	Detail

23 Waveguide Load

Low Power Waveguide Load consist of a short section of wave-guide containing a precisely tapered element designed to absorb microwave energy with very low VSWR. Our Terminations are available in sizes WR3 to Wr430.



Model	Frequency	VSWR	Waveguide	Dimension(mm)			Material	Datasheet
				W	H	L		
RM-WL4971-43	4.9-7.1	1.015Max	Wr159	148	81	61.9	Al	Detail
RM-WL4971-33	4.9-7.1	1.05Max	WR159	98	81	61.9	Al	Detail
RM-WLD28-2	26-40	<1.2	WR28	19	19	45	Cu	Detail
RM-WLD28-5	26-40	<1.2	WR28	19	19	59	Cu	Detail
RM-WLD28-75	26-40	<1.2	WR28	30	19	113	Al	Detail
RM-WLD34-2	22-33	<1.2	WR34	21	21	46	Cu	Detail
RM-WLD42-2	18-26.5	<1.1	WR42	22	22	56	Cu	Detail
RM-WLD75-2	10-15	<1.1	WR75	38	38	108	Al	Detail
RM-WLD90-2	8.2-12.4	<1.1	WR90	41	41	133	Cu	Detail
RM-WLD22-2	33-50	<1.06	WR22	19	25	89	Cu	Detail

24 Turntable

The turntable is used as the basic platform for calibration and testing of measurement and control system components. The position, speed and acceleration are controllable, and position, speed and acceleration tests can be realized. It can be divided into single-axis turntable, double-axis turntable, three-axis turntable, multi-axis turntable (more than three axes); position turntable, speed turntable, acceleration turntable. It is used for magnetic sensor calibration, gyroscope calibration, equipment motion simulation, acceleration test, etc.

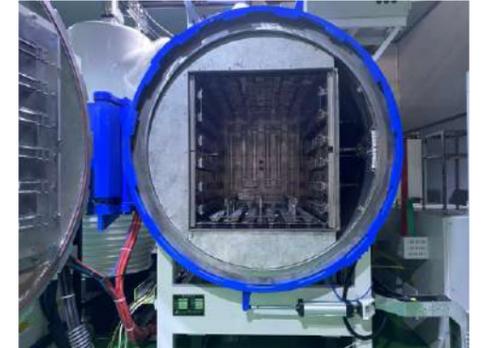


Model	Weight	Load	Control method	Dimension(mm)			Power supply	Datasheet
				W	H	L		
RM-ATDA-01	About 5	>5	RS422	240	194	230	AC220V	Detail
RM-ATDA-02	About 20	>50	RS422	288	264	355	AC220V	Detail
RM-ATSA-01	<12	>50	RS422	240	240	153.5	AC220V	Detail
RM-ATSA-02	<7	20	RS422	232	313	313	DC18V-50V	Detail
RM-ATSA-03	10	20	RS422	240	192	240	DC18V-50V	Detail
RM-ATSA-04	<10	20	RS422	260	170	360	DC24V-48V	Detail
RM-ATSA-05	<6	60	RS422	250	122	250	AC220V	Detail
RM-ATSA-06	55	>300	RS422	365	660	510	AC220V	Detail

25 Vacuum Welding Products

The vacuum brazing process has been widely used in metal products. Because of its several characteristics.

1. Brazed parts will not be oxidized, such as aerospace, precision parts.
2. Brazed parts have high strength. Such as waveguide products, aviation parts.
3. Brazed parts have good airtightness, such as water-cooled plates, water-cooled chassis, radiators, etc.

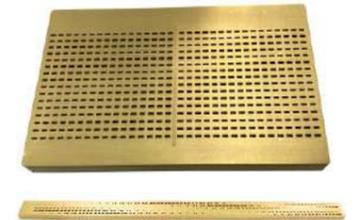


Vacuum Brazing Furnace

1 Slotted waveguied array antenna

Features

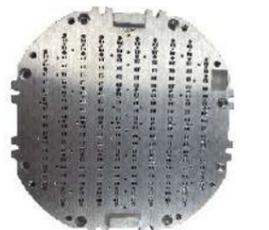
1. Up to 110GHz
2. Up to 20 layers can be soldered
3. Welded products have high strength



2 Water-cooled plate&water-cooled chassis

Features

Good air tightness, no water leakage



3 Waveguide products

