



**Dongguan Famous Precision
Technology Co.,Ltd**

**Microwave Antenna & Waveguide Parts
Selection Guide**



Company Profile

Dongguan Famous Precision Technology Co.,Ltd is a dedicated developer and manufacturer of microwave antennas, we always put technology innovation as the leading head, keep the same pace with the highest level of the world. Our product range mainly includes:

- PtP Microwave parabolic antenna;
- PtMP Horn antenna;
- Waveguides & accessories;

Our all microwave antennas meet ETSI RPE Class 3 & US FCC 101 compliance, we worked out to improve the XPD level from 30dB to 40dB for big diameter dish antennas.

- Frequency range: 2-60GHz;
- Dish antenna diameters: 0.2m/0.7ft, 0.3m/1ft, 0.6m/2ft, 0.9m/3ft, 1.2m/4ft, 1.8m/6ft, 2.4m/8ft, 3.0m/10ft, 3.7m/12ft;
- V.S.W.R $\leq$ 1.1 (Return Loss $\leq$ 26dB);
- Cross Polarization Discrimination (XPD): 30/33/36/40dB;
- 1.2m/4ft, 1.8m/6ft, 2.4m/8ft, 3.0m/10ft, 3.7m/12ft big antennas will use our patent “split-lobe” deep reflector design which saves a lot transportation and packaging cost;

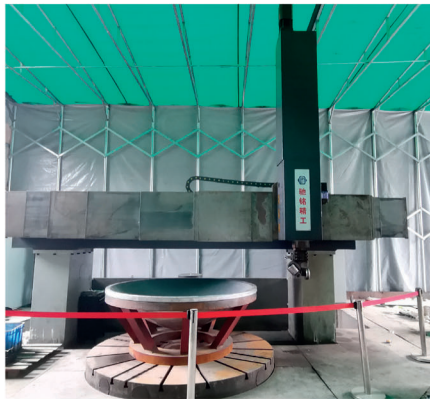
Efficient PtMP horn antennas:

- Wide frequency range 5.0-7.0GHz;
- High isolation: 30°
- With fast and easy installation waveguide;
- High Gain

We also offer a full range of waveguide and accessories for each antenna type to support you end-to-end radio link networks.

- Flexible Waveguide
- Elliptical Waveguide
- Accessories

We have built the first-class antenna test outfield system, own ISO9001, ISO14001 and other international certifications, boast perfect quality assurance system, professional antenna R&D team and production management team, all these ensure every microwave antenna manufactured by us at high quality, are trustworthy to each customer.



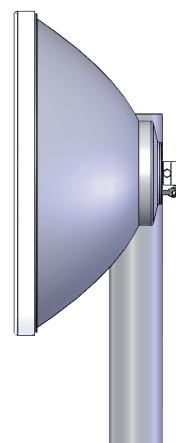
0.2m/0.7ft standard dual-polarized antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
CMP0213DA	0.2m/0.7ft	12.2-13.25	26.2	26.6	26.9	7.3	30	1.3	52	35
CMP0215DA	0.2m/0.7ft	14.4-15.35	27.4	27.8	28.2	6.5	30	1.3	53	35
CMP0218DA	0.2m/0.7ft	17.7-19.7	29.5	29.9	30.3	5.1	30	1.3	56	35
CMP0223DA	0.2m/0.7ft	21.2-23.6	31.0	31.5	32.0	4.3	30	1.3	57	35
CMP0226DA	0.2m/0.7ft	24.2-26.5	32.2	32.6	33.0	3.8	30	1.3	58	35
CMP0228DA	0.2m/0.7ft	27.5-29.5	33.3	33.6	33.9	3.4	30	1.3	59	35
CMP0232DA	0.2m/0.7ft	31.8-33.4	34.6	34.8	35.0	3.0	30	1.3	60	35
CMP0238DA	0.2m/0.7ft	37.0-40.0	35.9	36.2	36.5	2.5	30	1.3	61	35

Mechanical performance:

Diameter of Mounting Pole	Φ51~Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine ±15°
Fine Elevation Adjustment	Coarse ±25° Fine ±15°
Wind Velocity Operational	180km/h
Wind Velocity Survival Rating	250km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has ≤ -0.5 dBi tolerance is within the normal range;

2.F/B ratio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;

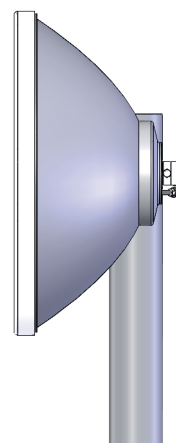
0.3m/1ft standard dual-polarized antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
5G24	0.3m/1ft	5.0-7.0	24			9	25	1.7	35	30
CMP0310WDA	0.3m/1ft	10.0-11.7	28.6	29.3	30.1	5.3	30	1.3	54	35
CMP0313WDA	0.3m/1ft	12.2-13.25	30.3	30.6	31.0	4.4	30	1.3	56	35
CMP0315DA	0.3m/1ft	14.4-15.35	31.9	32.2	32.5	4.0	30	1.3	57	35
CMP0318DA	0.3m/1ft	17.7-19.7	33.7	34.2	34.7	3.1	30	1.3	59	35
CMP0323DA	0.3m/1ft	21.2-23.6	35.3	35.8	36.2	2.6	30	1.3	61	35
CMP0326DA	0.3m/1ft	24.2-26.5	36.5	36.9	37.2	2.3	30	1.3	62	35
CMP0328DA	0.3m/1ft	27.5-29.5	37.6	37.9	38.2	2.0	30	1.3	63	35
CMP0332DA	0.3m/1ft	31.8-33.4	38.8	39.0	39.3	1.8	30	1.3	64	35
CMP0338DA	0.3m/1ft	37.0-40.0	40.1	40.5	40.8	1.5	30	1.3	66	35

Mechanical performance:

Diameter of Mounting Pole	Φ51~Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine ±15°
Fine Elevation Adjustment	Coarse ±25° Fine ±15°
Wind Velocity Operational	180km/h
Wind Velocity Survival Rating	250km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has ≤ -0.5 dBi tolerance is within the normal range;

2.F/B ratio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;



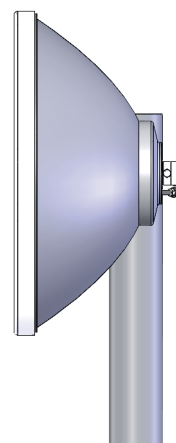
0.6m/2ft standard dual-polarized antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
5G30	0.6/2ft	5.0-7.0	30			6	25	1.7	40	30
CMP066WDA	0.6m/2ft	5.925-7.125	29.1	29.9	30.7	5.2	30	1.3	55	35
CMP067WDA	0.6m/2ft	7.125-8.5	30.7	31.5	32.2	4.3	30	1.3	56	35
CMP0610WDA	0.6m/2ft	10.0-11.7	33.6	34.3	35.0	3.0	30	1.3	59	35
CMP0613WDA	0.6m/2ft	12.2-13.25	35.3	35.7	36.1	2.6	30	1.3	60	35
CMP0615DA	0.6m/2ft	14.4-15.35	36.8	37.1	37.4	2.3	30	1.3	62	35
CMP0618DA	0.6m/2ft	17.7-19.7	38.6	39.1	39.5	1.8	30	1.3	64	35
CMP0623DA	0.6m/2ft	21.2-23.6	40.2	40.6	41.1	1.5	30	1.3	65	35
CMP0626DA	0.6m/2ft	24.2-26.5	41.3	41.7	42.1	1.3	30	1.3	67	35
CMP0628DA	0.6m/2ft	27.5-29.5	42.4	42.7	43.0	1.2	30	1.3	68	35
CMP0632DA	0.6m/2ft	31.8-33.4	43.7	43.9	44.1	1.0	30	1.3	69	35
CMP0638DA	0.6m/2ft	37.0-40.0	45.0	45.3	45.7	0.9	30	1.3	70	35

Mechanical performance:

Diameter of Mounting Pole	Φ51~Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine ±15°
Fine Elevation Adjustment	Coarse ±25° Fine ±15°
Wind Velocity Operational	180km/h
Wind Velocity Survival Rating	250km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has ≤ -0.5 dBi tolerance is within the normal range;

2.F/B ratio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;

0.9m/3ft standard dual-polarized antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP096WDA	0.9m/3ft	5.925-7.125	32.7	33.5	34.3	3.6	30	1.3	58	35
CMP097WDA	0.9m/3ft	7.125-8.5	34.3	35.1	35.8	2.8	30	1.3	59	35
CMP0910WDA	0.9m/3ft	10-11.7	37.2	37.9	38.6	2.0	30	1.3	63	35
CMP0913WDA	0.9m/3ft	12.2-13.25	38.9	39.3	39.6	1.7	30	1.3	64	35
CMP0915DA	0.9m/3ft	14.4-15.35	40.4	40.7	41	1.5	30	1.3	66	35
CMP0918DA	0.9m/3ft	17.7-19.7	42.2	42.7	43.1	1.2	30	1.3	68	35
CMP0923DA	0.9m/3ft	21.2-23.6	43.7	44.2	41.1	1.0	30	1.3	69	35

Mechanical performance:

Diameter of Mounting Pole	Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine $\pm 15^\circ$
Fine Elevation Adjustment	Fine $\pm 10^\circ$
Wind Velocity Operational	180km/h
Wind Velocity Survival Rating	250km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has ≤ -0.5 dBi tolerance is within the normal range;

2.F/B radio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;

**1.2m/4ft ultra high XPD performance dual-polarized microwave parabolic antenna specification****Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP124DC	1.2m/4ft	4.4-5.0	32.0	32.6	33.1	3.7	40	1.2	58	45
CMP126WDC	1.2m/4ft	5.925-7.125	34.9	35.7	36.5	2.7	40	1.15	61	45
CMP127WDC	1.2m/4ft	7.125-8.5	36.5	37.3	38.0	2.2	40	1.15	63	45
CMP1210WDC	1.2m/4ft	10-11.7	39.6	40.2	40.8	1.6	40	1.15	65	45
CMP1213WDC	1.2m/4ft	12.2-13.25	41.6	41.7	41.9	1.3	40	1.15	66	45
CMP1215DC	1.2m/4ft	14.4-15.35	42.6	42.9	43.2	1.1	40	1.15	66	45

1.2m/4ft high XPD performance dual-polarized microwave parabolic antenna specification**Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP124DB	1.2m/4ft	4.4-5.0	32.0	32.6	33.1	3.7	33	1.2	58	38
CMP126WDB	1.2m/4ft	5.925-7.125	34.9	35.7	36.5	2.7	33	1.15	61	38
CMP127WDB	1.2m/4ft	7.125-8.5	36.5	37.3	38.0	2.2	33	1.15	63	38
CMP1210WDB	1.2m/4ft	10-11.7	39.6	40.2	40.8	1.6	33	1.15	65	38
CMP1213WDB	1.2m/4ft	12.2-13.25	41.6	41.7	41.9	1.3	33	1.15	66	38
CMP1215DB	1.2m/4ft	14.4-15.35	42.6	42.9	43.2	1.1	33	1.15	66	38

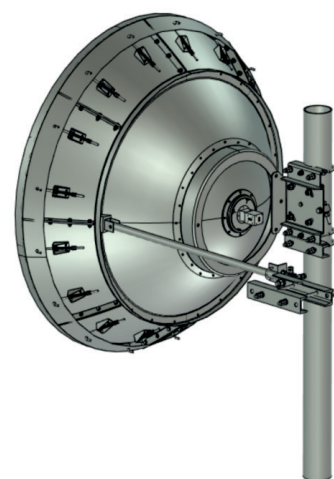
1.2m/4ft standard performance dual-polarized microwave parabolic antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
CMP124DA	1.2m/4ft	4.4-5.0	32.0	32.6	33.1	3.7	30	1.2	58	35
CMP126WDA	1.2m/4ft	5.925-7.125	34.9	35.7	36.5	2.7	30	1.15	61	35
CMP127WDA	1.2m/4ft	7.125-8.5	36.5	37.3	38.0	2.2	30	1.15	63	35
CMP1210WDA	1.2m/4ft	10-11.7	39.6	40.2	40.8	1.6	30	1.15	65	35
CMP1213WDA	1.2m/4ft	12.2-13.25	41.6	41.7	41.9	1.3	30	1.15	66	35
CMP1215DA	1.2m/4ft	14.4-15.35	42.6	42.9	43.2	1.1	30	1.15	66	35

Mechanical performance:

Diameter of Mounting Pole	Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine ±15°
Fine Elevation Adjustment	Fine ±10°
Wind Velocity Operational	180km/h
Wind Velocity Survival	200km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has $\leq -0.5\text{dBi}$ tolerance is within the normal range;

2.F/B ratio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;

**1.8m/6ft ultra high XPD performance dual-polarized microwave parabolic antenna specification****Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
CMP183DC	1.8m/6ft	3.6-4.2	33.8	34.8	35.3	3.1	40	1.15	60	45
CMP184DC	1.8m/6ft	4.4-5.0	35.7	36.3	36.8	2.6	40	1.15	61	45
CMP186WDC	1.8m/6ft	5.925-7.125	38.4	39.4	39.8	1.8	40	1.1	65	45
CMP187WDC	1.8m/6ft	7.125-8.5	40.0	40.8	41.5	1.5	40	1.1	66	45
CMP1810WDC	1.8m/6ft	10-11.7	43.0	43.7	44.3	1.1	40	1.1	69	45
CMP1813WDC	1.8m/6ft	12.2-13.25	45.0	45.2	45.3	0.9	40	1.1	70	45
CMP1815DC	1.8m/6ft	14.4-15.35	46.1	46.3	46.6	0.8	40	1.1	71	45

1.8m/6ft high XPD performance dual-polarized microwave parabolic antenna specification**Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
CMP183DB	1.8m/6ft	3.6-4.2	33.8	34.8	35.3	3.1	33	1.15	60	38
CMP184DB	1.8m/6ft	4.4-5.0	35.7	36.3	36.8	2.6	33	1.15	61	38
CMP186WDB	1.8m/6ft	5.925-7.125	38.4	39.4	39.8	1.8	33	1.1	65	38
CMP187WDB	1.8m/6ft	7.125-8.5	40.0	40.8	41.5	1.5	33	1.1	66	38
CMP1810WDB	1.8m/6ft	10-11.7	43.0	43.7	44.3	1.1	33	1.1	69	38
CMP1813WDB	1.8m/6ft	12.2-13.25	45.0	45.2	45.3	0.9	33	1.1	70	38
CMP1815DB	1.8m/6ft	14.4-15.35	46.1	46.3	46.6	0.8	33	1.1	71	38

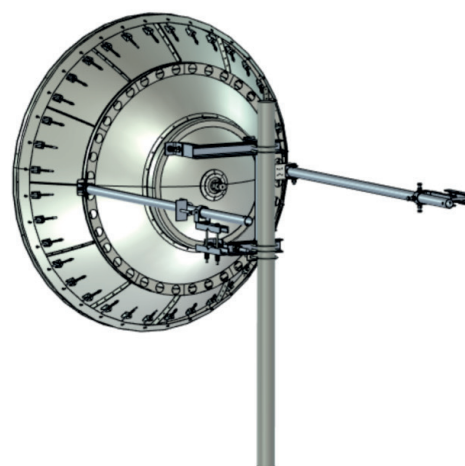
1.8m/6ft standard performance dual-polarized microwave parabolic antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP183DA	1.8m/6ft	3.6-4.2	33.8	34.8	35.3	3.1	30	1.15	60	35
CMP184DA	1.8m/6ft	4.4-5.0	35.7	36.3	36.8	2.6	30	1.15	61	35
CMP186WDA	1.8m/6ft	5.925-7.125	38.4	39.4	39.8	1.8	30	1.1	65	35
CMP187WDA	1.8m/6ft	7.125-8.5	40.0	40.8	41.5	1.5	30	1.1	66	35
CMP1810WDA	1.8m/6ft	10-11.7	43.0	43.7	44.3	1.1	30	1.1	69	35
CMP1813WDA	1.8m/6ft	12.2-13.25	45.0	45.2	45.3	0.9	30	1.1	70	35
CMP1815DA	1.8m/6ft	14.4-15.35	46.1	46.3	46.6	0.8	30	1.1	71	35

Mechanical performance:

Diameter of Mounting Pole	Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine $\pm 5^\circ$
Fine Elevation Adjustment	Fine $\pm 5^\circ$
Wind Velocity Operational	180km/h
Wind Velocity Survival	200km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has $\leq -0.5\text{dBi}$ tolerance is within the normal range;

2.F/B radio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;

**2.4m/8ft ultra high XPD dual-polarized microwave parabolic antenna specification****Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP243DC	2.4m/8ft	3.6-4.2	36.1	37.3	38	2.4	40	1.15	62	45
CMP244DC	2.4m/8ft	4.4-5.0	38.0	38.8	39.3	2.0	40	1.15	63	45
CMP246WDC	2.4m/8ft	5.925-7.125	40.8	41.7	42.5	1.4	40	1.1	67	45
CMP247WDC	2.4m/8ft	7.125-8.5	42.5	43.3	44.0	1.1	40	1.1	69	45
CMP2410WDC	2.4m/8ft	10-11.7	45.5	46.1	46.8	0.8	40	1.1	71	45
CMP2413WDC	2.4m/8ft	12.2-13.25	47.5	47.7	47.9	0.7	40	1.1	72	45
CMP2415DC	2.4m/8ft	14.4-15.35	48.6	48.8	49.1	0.6	40	1.1	74	45

2.4m/8ft high XPD dual-polarized microwave parabolic antenna specification**Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP243DB	2.4m/8ft	3.6-4.2	36.1	37.3	38	2.4	33	1.15	62	38
CMP244DB	2.4m/8ft	4.4-5.0	38.0	38.8	39.3	2.0	33	1.15	63	38
CMP246WDB	2.4m/8ft	5.925-7.125	40.8	41.7	42.5	1.4	33	1.1	67	38
CMP247WDB	2.4m/8ft	7.125-8.5	42.5	43.3	44.0	1.1	33	1.1	69	38
CMP2410WDB	2.4m/8ft	10-11.7	45.5	46.1	46.8	0.8	33	1.1	71	38
CMP2413WDB	2.4m/8ft	12.2-13.25	47.5	47.7	47.9	0.7	33	1.1	72	38
CMP2415DB	2.4m/8ft	14.4-15.35	48.6	48.8	49.1	0.6	33	1.1	74	38

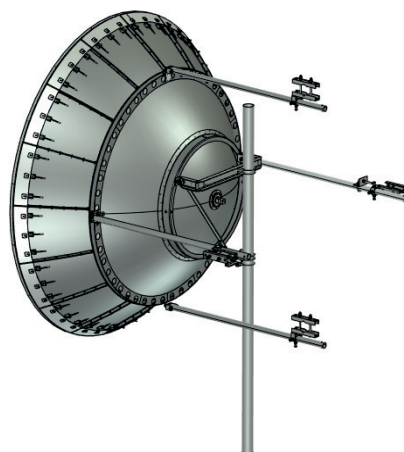
2.4m/8ft standard dual-polarized microwave parabolic antenna specificati

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP243DA	2.4m/8ft	3.6-4.2	36.1	37.3	38	2.4	30	1.15	62	35
CMP244DA	2.4m/8ft	4.4-5.0	38.0	38.8	39.3	2.0	30	1.15	63	35
CMP246WDA	2.4m/8ft	5.925-7.125	40.8	41.7	42.5	1.4	30	1.1	67	35
CMP247WDA	2.4m/8ft	7.125-8.5	42.5	43.3	44.0	1.1	30	1.1	69	35
CMP2410WDA	2.4m/8ft	10-11.7	45.5	46.1	46.8	0.8	30	1.1	71	35
CMP2413WDA	2.4m/8ft	12.2-13.25	47.5	47.7	47.9	0.7	30	1.1	72	35
CMP2415DA	2.4m/8ft	14.4-15.35	48.6	48.8	49.1	0.6	30	1.1	74	35

Mechanical performance:

Diameter of Mounting Pole	Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine $\pm 5^\circ$
Fine Elevation Adjustment	Fine $\pm 5^\circ$
Wind Velocity Operational	180km/h
Wind Velocity Survival	200km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has $\leq -0.5\text{dBi}$ tolerance is within the normal range;

2.F/B radio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;

**3.0m/10ft ultra high XPD performance dual-polarized microwave parabolic antenna specification****Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP303DC	3.0m/10ft	3.6-4.2	38.3	38.9	39.5	1.9	40	1.15	64	45
CMP304DC	3.0m/10ft	4.4-5.0	40	40.6	41.1	1.5	40	1.15	65	45
CMP306WDC	3.0m/10ft	5.925-7.125	42.8	43.6	44.4	1.1	40	1.1	69	45
CMP307WDC	3.0m/10ft	7.125-8.5	44.4	45.2	46.0	0.9	40	1.1	71	45
CMP3010WDC	3.0m/10ft	10-11.7	47.4	48.1	48.7	0.7	40	1.1	73	45
CMP3013WDC	3.0m/10ft	12.2-13.25	49.4	49.6	49.8	0.6	40	1.1	75	45

3.0m/10ft high XPD performance dual-polarized microwave parabolic antenna specification**Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP303DB	3.0m/10ft	3.6-4.2	38.3	38.9	39.5	1.9	33	1.15	64	38
CMP304DB	3.0m/10ft	4.4-5.0	40	40.6	41.1	1.5	33	1.15	65	38
CMP306WDB	3.0m/10ft	5.925-7.125	42.8	43.6	44.4	1.1	33	1.1	69	38
CMP307WDB	3.0m/10ft	7.125-8.5	44.4	45.2	46.0	0.9	33	1.1	71	38
CMP3010WDB	3.0m/10ft	10-11.7	47.4	48.1	48.7	0.7	33	1.1	73	38
CMP3013WDB	3.0m/10ft	12.2-13.25	49.4	49.6	49.8	0.6	33	1.1	75	38

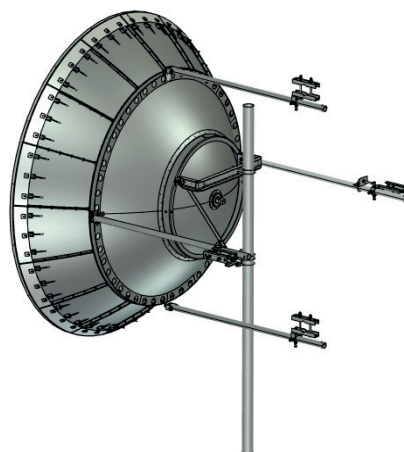
3.0m/10ft standard performance dual-polarized microwave parabolic antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (deg)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
CMP303DA	3.0m/10ft	3.6-4.2	38.3	38.9	39.5	1.9	30	1.15	64	35
CMP304DA	3.0m/10ft	4.4-5.0	40	40.6	41.1	1.5	30	1.15	65	35
CMP306WDA	3.0m/10ft	5.925-7.125	42.8	43.6	44.4	1.1	30	1.1	69	35
CMP307WDA	3.0m/10ft	7.125-8.5	44.4	45.2	46.0	0.9	30	1.1	71	35
CMP3010WDA	3.0m/10ft	10-11.7	47.4	48.1	48.7	0.7	30	1.1	73	35
CMP3013WDA	3.0m/10ft	12.2-13.25	49.4	49.6	49.8	0.6	30	1.1	75	35

Mechanical performance:

Diameter of Mounting Pole	Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine $\pm 5^\circ$
Fine Elevation Adjustment	Fine $\pm 5^\circ$
Wind Velocity Operational	180km/h
Wind Velocity Survival	200km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has $\leq -0.5\text{dBi}$ tolerance is within the normal range;

2.F/B ratio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;

**3.7m/12ft ultra high XPD performance dual-polarized microwave parabolic antenna specification****Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP373DC	3.7m/12ft	3.6-4.2	40.1	40.9	41.4	1.6	40	1.15	66	45
CMP374DC	3.7m/12ft	4.4-5.0	41.6	42.2	42.7	1.2	40	1.15	67	45
CMP376WDC	3.7m/12ft	5.925-7.125	44.4	45.2	46.0	1	40	1.1	71	45
CMP377WDC	3.7m/12ft	7.125-8.5	46.0	46.8	47.5	0.8	40	1.1	73	45
CMP3710WDC	3.7m/12ft	10-11.7	48.4	49.4	50.3	0.6	40	1.1	75	45

3.7m/12ft high XPD performance dual-polarized microwave parabolic antenna specification**Electrical performance:**

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B radio (dB)	ISO
			Low	Mid	Top					
CMP373DB	3.7m/12ft	3.6-4.2	40.1	40.9	41.4	1.6	33	1.15	66	38
CMP374DB	3.7m/12ft	4.4-5.0	41.6	42.2	42.7	1.2	33	1.15	67	38
CMP376WDB	3.7m/12ft	5.925-7.125	44.4	45.2	46.0	1	33	1.1	71	38
CMP377WDB	3.7m/12ft	7.125-8.5	46.0	46.8	47.5	0.8	33	1.1	73	38
CMP3710WDB	3.7m/12ft	10-11.7	48.4	49.4	50.3	0.6	33	1.1	75	38

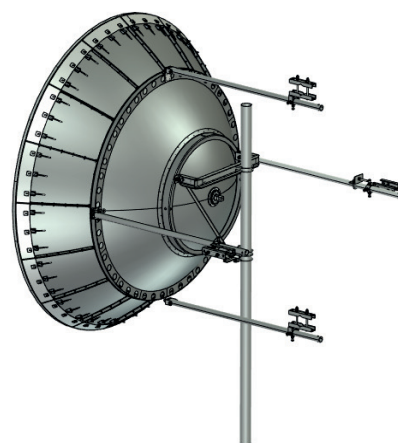
3.7m/12ft standard performance dual-polarized microwave parabolic antenna specification

Electrical performance:

Antenna Model	Antenna Size(m/ft)	Frequency (GHz)	Gain(dBi)			3dB BW (degs)	XPD (dB)	VSWR	F/B ratio (dB)	ISO
			Low	Mid	Top					
CMP373DA	3.7m/12ft	3.6-4.2	40.1	40.9	41.4	1.6	30	1.15	66	35
CMP374DA	3.7m/12ft	4.4-5.0	41.6	42.2	42.7	1.2	30	1.15	67	35
CMP376WDA	3.7m/12ft	5.925-7.125	44.4	45.2	46.0	1	30	1.1	71	35
CMP377WDA	3.7m/12ft	7.125-8.5	46.0	46.8	47.5	0.8	30	1.1	73	35
CMP3710WDA	3.7m/12ft	10-11.7	48.4	49.4	50.3	0.6	30	1.1	75	35

Mechanical performance:

Diameter of Mounting Pole	Φ114 mm
Fine Azimuth Adjustment	Coarse 360° Fine $\pm 5^\circ$
Fine Elevation Adjustment	Fine $\pm 5^\circ$
Wind Velocity Operational	180km/h
Wind Velocity Survival	200km/h
Ice-load	25.4 mm
Operational Temperature	-55~ +70°C



1.The low/mid/high gain has $\leq -0.5\text{dBi}$ tolerance is within the normal range;

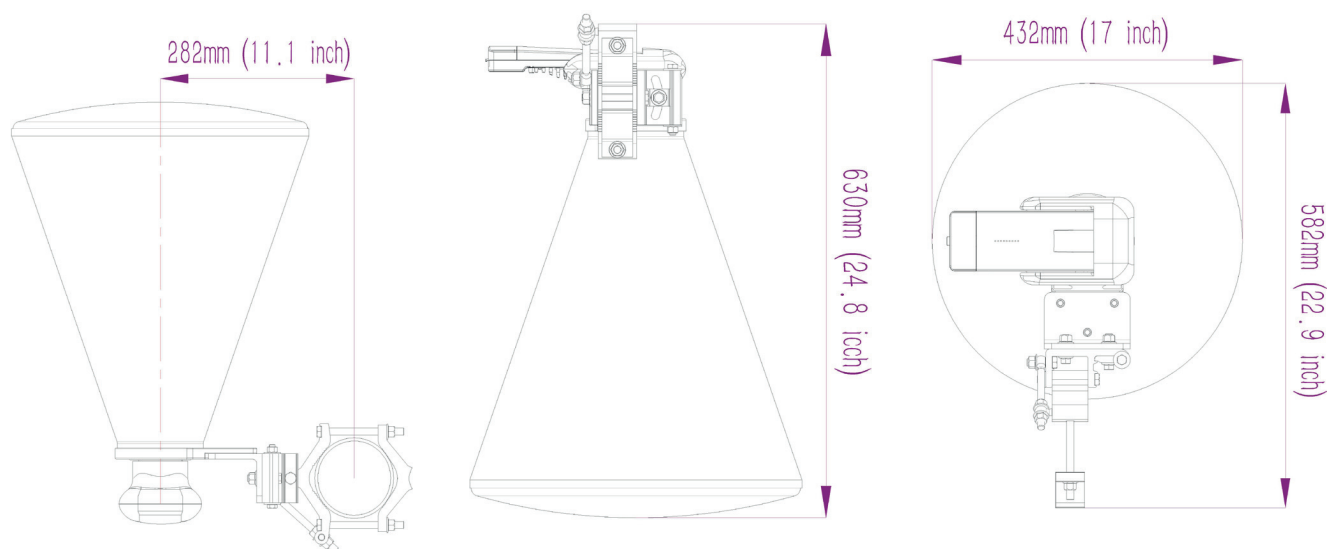
2.F/B ratio: Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise;



24dB Horn Antenna

Frequency Range (GHz)	Gain (dBi)	Azimuth Beam Width -3dB	Elevation Beam Width -3dB	Azimuth Beam Width -6dB	Elevation Beam Width -6dB	Front/Back Ratio(dB)	VSWR	Polarization
5.0-7.0	24	H11° V11°	H11° V11°	H16° V15°	H16° V15°	40	≤ 1.8	Dual-Linear

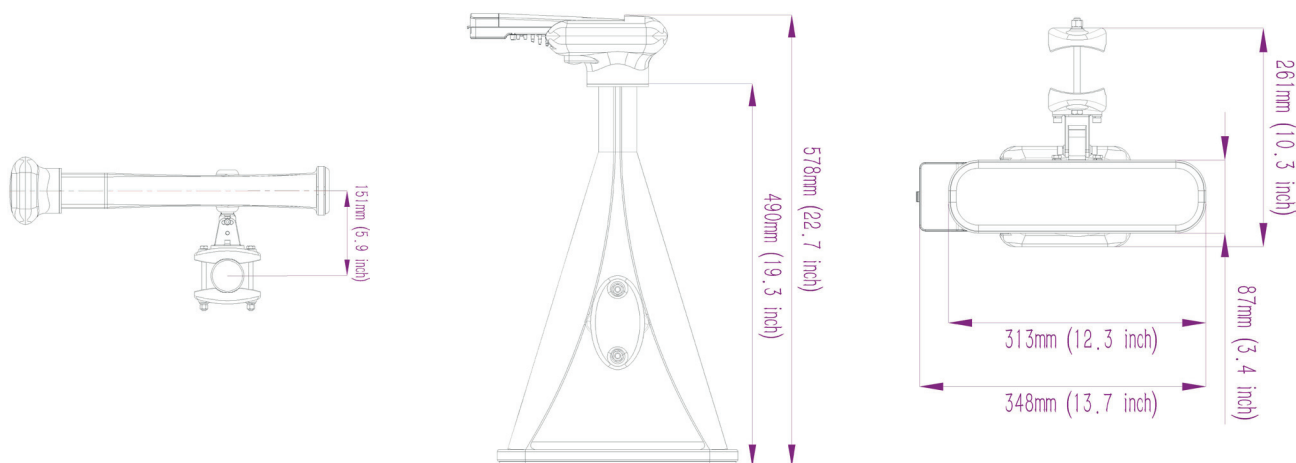
Antenna Connection	Waveguide (special made by Dongguan Famous Precision) or SMA
Net Weight	9kgs/19.8lb
Material	UV stabilized PC, aluminum alloy
Wind survivability	200 km/h
Wind loading	90N at 200 km/h
Mounting	Mechanical adjustment: ±25° elevation, ±25° azimuth
Pole compatibility: Ø40 to 60 mm	-55~ +70°C
Weatherproofing	IP55



Asymmetrical Horn Antenna

	Frequency Range (GHz)	Gain (dBi)	Azimuth Beam Width -3dB	Elevation Beam Width -3dB	Azimuth Beam Width -6dB	Elevation Beam Width -6dB	Front/Back Ratio(dB)	VSWR	Polarization
30°	5.0-7.0	20	H21° V21°	H15° V15°	H30° V30°	H20° V20°	35	≤ 1.8	Dual-Linear
60°	5.0-7.0	17	H45° V42°	H17° V16°	H60° V60°	H25° V25°	27	≤ 1.8	Dual-Linear
90°	5.0-7.0	16	H60° V60°	H16° V16°	H90° V90°	H25° V25°	30	≤ 1.8	Dual-Linear

Antenna Connection	Waveguide (special made by Dongguan Famous Precision) or SMA
Net Weight	3kgs/6.6lb
Material	UV stabilized PC, aluminum alloy
Wind survivability	200 km/h (124 mph)
Wind loading	200 km/h
Mounting	Mechanical adjustment: ±25° elevation, ±25° azimuth
Pole compatibility: Ø40 to 60 mm	-55~ +70°C
Weatherproofing	IP55



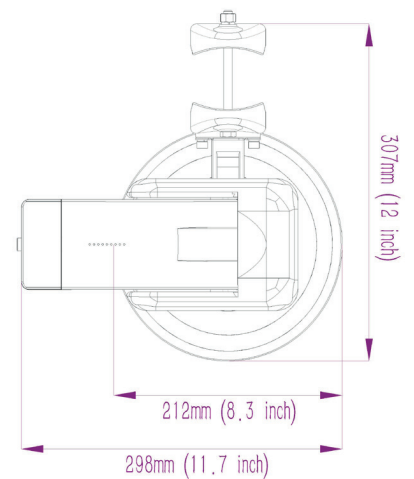
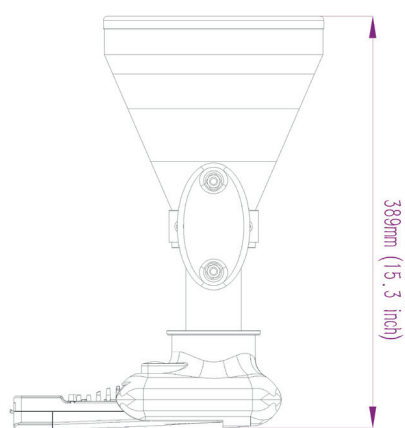
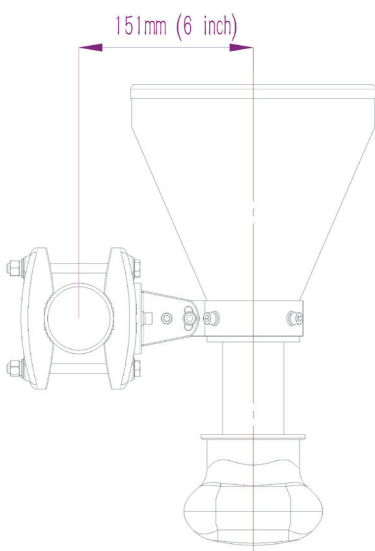


Symmetrical Horn Antenna

	Frequency Range (GHz)	Gain (dBi)	Azimuth Beam Width -3dB	Elevation Beam Width -3dB	Azimuth Beam Width -6dB	Elevation Beam Width -6dB	Front/Back Ratio(dB)	VSWR	Polarization
30°	5.0-7.0	18	H21° V21°	H21° V21°	H30° V30°	H30° V30°	37	≤ 1.8	Dual-Linear
40°	5.0-7.0	16	H27° V27°	H27° V27°	H40° V40°	H40° V40°	35	≤ 1.8	Dual-Linear
50°	5.0-7.0	14	H33° V33°	H33° V33°	H50° V50°	H50° V50°	33	≤ 1.8	Dual-Linear
60°	5.0-7.0	13	H41° V41°	H41° V41°	H60° V60°	H60° V60°	32	≤ 1.8	Dual-Linear
70°	5.0-7.0	11	H50° V50°	H50° V50°	H70° V70°	H70° V70°	30	≤ 1.8	Dual-Linear
80°	5.0-7.0	10	H60° V60°	H60° V60°	H80° V80°	H80° V80°	29	≤ 1.8	Dual-Linear
90°	5.0-7.0	9	H67° V67°	H67° V67°	H90° V90°	H90° V90°	28	≤ 1.8	Dual-Linear

Antenna Connection	Waveguide (special made by Dongguan Famous Precision) or SMA
Net Weight	2.5kgs/5.5lb
Material	UV stabilized PC, aluminum alloy
Wind survivability	200 km/h
Wind loading	200 km/h
Mounting	Mechanical adjustment: ±25° elevation, ±25° azimuth
Pole compatibility: Ø40 to 60 mm	-55~ +70°C
Weatherproofing	IP55

Symmetrical Horn Antenna





Elliptical Waveguide



Construction

- Inner: Brass
- Outer: Black PE

Features

- Low VSWR, Low loss
- Good flexible
- Long length transport and install
- Corrosion resistance,Radiation

Application

- Radar, Satellite earth stations
- Microwave relay,Broadcast

Waveguide



Technic Index

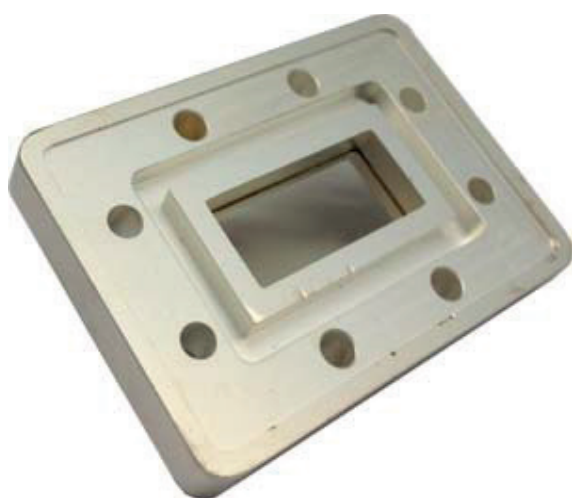
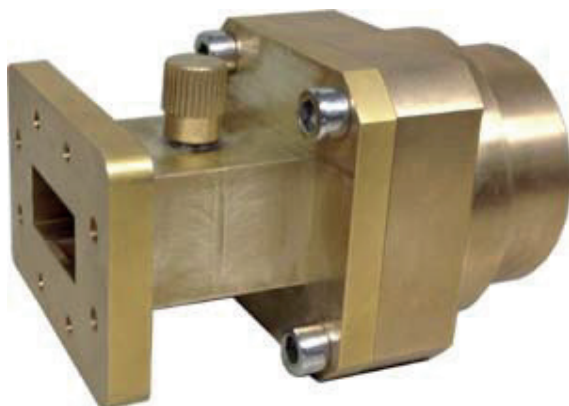
型号 Type	频段 Freg	接口法兰 Flange	驻波比 VSWR	衰减 Insertion loss	峰值功率 Peak Power	外尺寸 Dimensions	重量 Weight	最小弯曲半径 (mm) Min Bend Radius	
	GHz		Max	dB/100m	Kw	mm	Kg/m	E 弯	H 弯
BT24R	2.2 ~ 3.1	BJ32	1.20	2.0(2.2G) 1.8(3.1G)	550	100.5×63.5	2.6	800	2000
BT26	2.5 ~ 2.7	N-K50 IF45	1.25	2.8(2.5G) 2.3(2.7G)	460	108.4×61.3	2.5	600	1500
BT38	3.4 ~ 4.2	BJ40	1.15	3.6(3.4G) 2.6(4.2G)	310	82.6×47.4	1.7	340	840
BT48	4.4 ~ 5.0	BJ48	1.15	4.7(4.4G) 3.8(5.0G)	190	72×42	1.4	300	750
BT54	5.0 ~ 6.0	BJ48 BJ58	1.15	5.3(5.0G) 4.3(6.0G)	150	58.5×38	1.0	240	580
BTX62	5.85 ~ 7.125	BJ70	1.15	5.2(5.9G) 4.5(7.1G)	102	52×30	0.85	220	550
	5.85 ~ 6.425		1.10						
	6.425 ~ 7.125		1.10						
BTX80	7.125 ~ 8.5	/	1.15	6.3(7.1G) 5.6(8.5G)	60	44.8×27.6	0.72	200	520
	7.125 ~ 7.725	BJ70	1.10						
	7.725 ~ 8.5	BJ84	1.10						
BT90	8.5 ~ 10.0	BJ84 BJ100	1.15	11.2(8.6G) 9.5(10.0G)	40	34×24	0.6	160	350
BT110	10.7 ~ 11.7	BJ100	1.15	10.3(10.7G) 9.8(11.7G)	35	33×21	0.5	150	300
BT120	10.95 ~ 12.75	BJ120	1.15	10.8(10.95G) 10.5(12.75G)	35	29×15	0.4	150	300
BT148	14.00 ~ 15.35	BJ120 BJ140	1.20	16.5(14.0G) 15.5(15.4G)	20	25.3×16	0.34	150	30
BT188	17.7~19.7	BJ140 BJ220	1.25	20.5(17.7G) 19.0(19.7G)	7	23.6×16.1	0.22	150	300



Accessories

■ Connector

- Fixed-tuned
- Reliable sealing
- Easy Install



■ Pressure Window

- Low VSWR, Low loss
- Reliable sealing

Accessories

■ Hangers

- Fixed Reliable
- Easy Install



■ Waveguide Boot

- Good appearance

■ Ground Kit

- Reliable





Accessories



Dehydrator

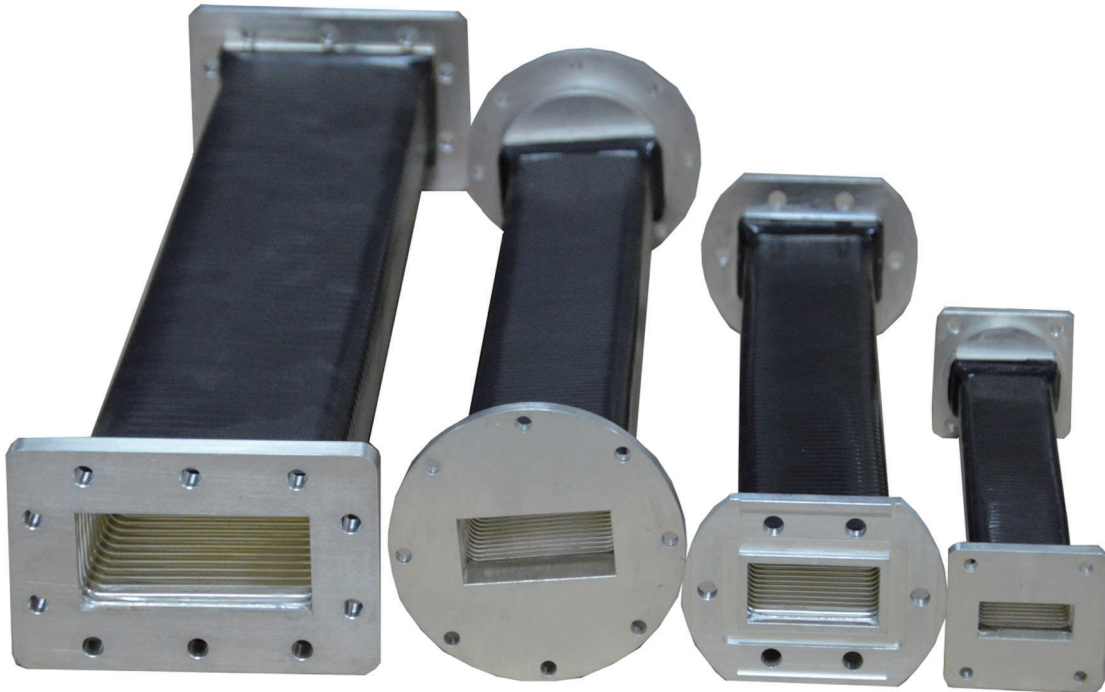
Dehydrator is mainly used to charge for waveguide in the field of microwave station. This equipment can maintain dry air pressure in the communication line automatically in order to keep out of moist air and water and ensure the quality transmit signal.

Our machine has advantage of small size、reasonable in inner structure、good manufacture、install easily and operate safely.

Technic Index

工作压力 work pressure	2.5-25KPa
最大充气流量 Nix charge flux	15ascend/minute
工作电压 work voltage	AC 220V±10% 50-60Hz DC48V±15%
耗电量 Power consume	充气状态 (Charge state)30VA 保压状态 (maintain voltage state)5VA
供气出口 Air feed out put	4
主机气密性 Mainframe gas tightness	保压 24 小时后压力下降小于 3KPa
Maintain voltage 24hours later pressure reduce less than 3KPa	-55~ +70°C
噪声 noise	≤ 45dB
最小故障间隔 MTBF	30000hour
外形尺寸 size	370×260×120mm
重量 Weight	8kg

Seamless Waveguide



Construction

- Inner: Silver-plated Brass
- Outer: Silicone / S-7

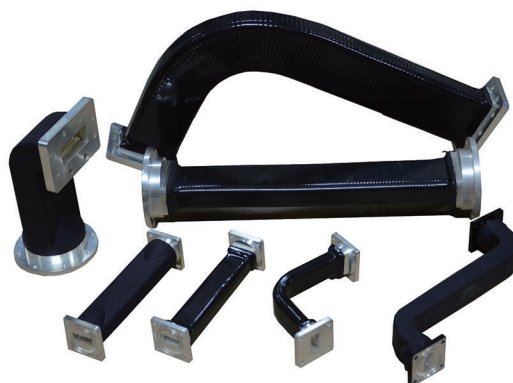
Features

- Low VSWR, Low loss
- High power performance
- Good flexible
- Preform to a desired shape

Application

- Radar, Satellite earth stations
- Microwave measure, microwave medical

Seamless



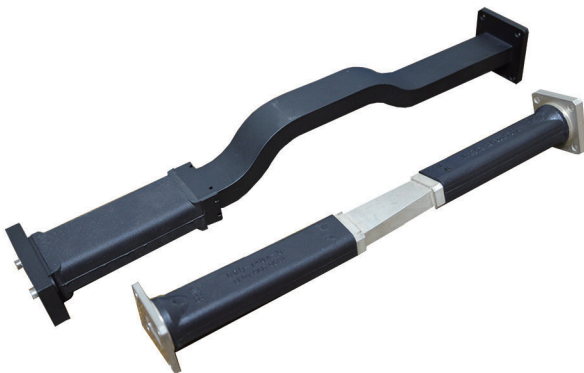
Technic Index

型号 Type	频段 Freg	接口法兰 Flange	驻波比 VSWR	衰减 Insertion loss	峰值功率 Peak Power	外尺寸 Dimensions	重量 Weight	最小弯曲半径 (mm) Min Bend Radius	
	GHz		Max	dB/100m	Kw	mm	Kg/m	E 弯	H 弯
BRB14	WR650	1.20~1.70	1.10	0.12	20	165.10×82.55	0.2	500	1000
BRB22	WR430	1.70~2.60	1.10	0.15	20	109.22×54.61	0.2	312	624
BRB26	WR340	2.17~3.30	1.10	0.15	20	86.36×43.18	0.2	260	520
BRB32	WR284	2.60~3.95	1.10	0.15	10	72.14×34.04	0.2	204	408
BRB40	WR229	3.30~4.90	1.10	0.17	8	58.17×29.08	0.2	166	332
BRB48	WR187	3.95~5.85	1.10	0.24	6.5	47.55×22.15	0.2	160	320
BRB58	WR159	4.90~7.05	1.10	0.26	6	40.39×20.19	0.2	129	258
BRB70	WR137	5.85~8.20	1.10	0.30	5	34.85×15.80	0.2	100	200
BRB84	WR112	7.05~10.0	1.10	0.35	4	28.50×12.62	0.2	76	152
BRB100	WR90	8.20~12.4	1.10	0.45	3	22.86×10.16	0.2	66	132
BRB120	WR75	10.0~15.0	1.15	0.65	1.5	19.05×9.53	0.2	63	126
BRB140	WR62	12.4~18.0	1.15	0.74	1	15.80×7.90	0.2	56	112
BRB180	WR51	14.5~22.0	1.15	1.15	0.5	12.95×6.48	0.2	50	100
BRB220	WR42	17.7~26.5	1.20	1.40	0.3	10.67×4.32	0.2	38	76
BRB260	WR34	22.0~33.0	1.25	1.60	0.2	8.64×4.32	0.2	35	70
BRB320	WR28	26.5~40.0	1.30	2.40	0.15	7.11×3.56	0.2	20	40

Extend

■ Half-Height

- Smaller size
- Low VSWR and loss



■ Hybrid

- Lower insertion loss
- Proving gas tight joints
- Eliminating EMC problems associated with flange interface

Twist-Flex Waveguid



Construction

- Inner: Brass
- Outer: Silicone / S-7

Features

- Low VSWR, Low loss
- Good flexible and twistable
- Stable capability during flexing and twisting

Application

- Microwave relay, Broadcast

Twist-Flex



Technic Index

型号 Type	频段 Freg	接口法兰 Flange	驻波比 VSWR	衰减 Insertion loss	峰值功率 Peak Power	外尺寸 Dimensions	重量 Weight	最小弯曲半径 (mm) Min Bend Radius	
	GHz		Max	dB/100m	Kw	mm	Kg/m	E 弯	H 弯
BRA58	WR159	4.90~7.05	1.10	0.22	2.5	40.39×20.19	170	129	258
BRA70	WR137	5.85~8.20	1.10	0.25	2.0	34.85×15.80	205	100	200
		5.850~6.425 6.425~7.125 7.125~7.725 7.725~8.200	1.06 1.06 1.06 1.06						
BRA84	WR112	7.05~10.00	1.10	0.30	1.5	28.50×12.62	262	76	152
		7.125~7.725 7.725~8.500	1.06 1.06						
BRA100	WR90	8.20~12.40	1.10	0.40	1	22.86×10.16	308	66	132
		10.70~11.70	1.06						
BRA120	WR75	10.0~15.0	1.15	0.50	0.75	19.05×9.53	360	63	126
		12.75~13.25 13.75~14.50	1.10 1.10						
BRA140	WR62	12.4~18.0	1.15	0.80	0.4	15.80×7.90	436	56	112
		12.70~13.25 14.25~15.35	1.10 1.10						
BRA180	WR51	15.0~22.0	1.15	1.10	0.2	12.95×6.48	445	50	100
BRA220	WR42	17.7~26.5	1.20	1.20	0.1	10.67×4.32	510	38	76
		21.2~23.6	1.15						
BRA260	WR34	22.0~33.0	1.20	1.50	0.1	8.64×4.32	510	35	70
BRA320	WR28	26.5~40.0	1.20	2.00	0.075	7.11×3.56	510	20	40
BRA400	WR22	40.5~43.5	1.30	2.70	0.025	5.69×2.85	510	18	36



Waveguide-Cable



Waveguide to Coaxial

频段 Freg	接口 1 Interface1	接口 2 Interface2	长度 length	驻波比 VSWR	衰减 Insertion Loss	平均功率 Peak Power	最小弯曲半径 Min Bend Radlus
MHz			mm	Max	dB	Kw	mm
5.9~7.1	BJ70	N	1200	1.30	1.20	30	100
7.1~10.0	BJ84	N	1200	1.30	1.20	30	100
7.1~10.0	BJ84	N	900	1.30	0.90	30	100
X 波段 X-Band	非标波导口 Non-standard	SMA	150	1.20	0.50	30	30



Dongguan Famous Precision Technology Co.,Ltd





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