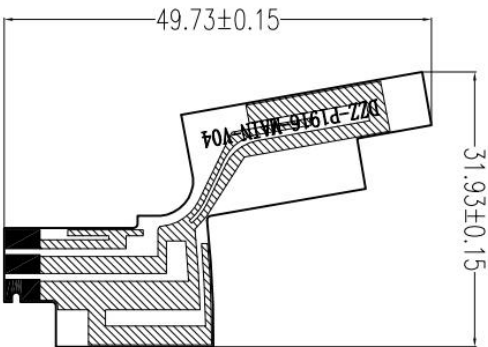


Main antenna specification

General information

Manufacturer	Be-comfortable
Model Name	P1916-main ant
Date	2026.1.5
Version	1.0
Vendor address	Building C6, Hengfeng Industrial City, Zhoushi Road, Xixiang Town, Baoan District, Shenzhen

Antenna Appearance



Technical Specifications

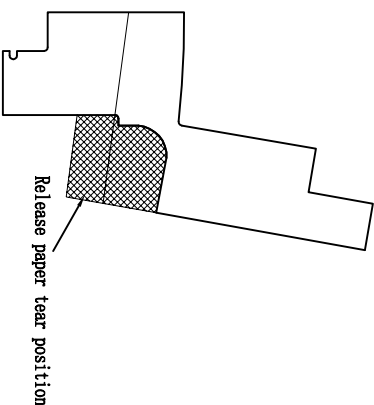
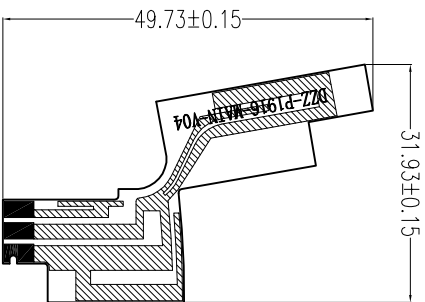
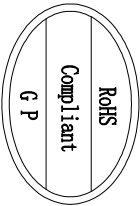
Frequency Range	700MHZ-960MHZ+1710MHZ-2690MHZ
Antenna Type	PIFA
Dimensions	49.73*31.93mm
Impedance	50 ohm
Maximum Gain	2.39dBi
VSWR	≤3
.....	

Efficiency and gain

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
700	-2.54	18.51	1700	1.37	30.56
720	-2.38	21.00	1740	1.56	29.4
740	-1.90	21.25	1780	1.65	30.73
760	-1.98	19.33	1820	1.75	29.47
780	-1.89	18.89	1860	1.74	31.76
800	-1.83	19.33	1900	1.75	32.61
820	-1.78	20.87	1940	1.86	33.14
840	-1.64	23.90	1980	1.89	33.8
860	-1.76	27.99	2020	2.01	32.27
880	-1.81	24.34	2060	2.06	30.33
900	-1.89	20.19	2100	2.03	38.37
920	-1.95	21.84	2140	1.86	39.76
940	-2.025	20.96	2180	1.67	38.45
960	-2.15	20.48	2220	1.53	39.05
			2260	1.57	34.76
			2300	1.69	30.36
			2340	1.78	28.39
			2380	1.81	29.13
			2420	1.80	27.32
			2460	1.83	28.56
			2500	2.09	30.26
			2540	2.39	29.74
			2580	2.15	30.37
			2620	2.11	30.04
			2660	2.06	42.06
			2700	2.07	50.63

OTA (TRP TIS)

Band	Channels	SN :		Band	Channels	SN :	
		TRP	TIS			TRP	TIS
Band 1 (10M)	L	18.54		Band 38 (20M)	L	18.97	
	M	18.47			M	18.98	
	H	18.19	-92.49		H	18.92	-90.15
Band 2 (10M)	L	18.49		Band 41 (20M)	L	17.39	
	M	18.22			M	17.95	
	H	17.11	-92.3		H	17.27	-90.81
Band 3 (10M)	L	17.18		GSM850	L	25.57	
	M	17.36			M	25.57	
	H	17.43	-92.76		H	25.20	-101.65
Band 4 (10M)	L	17.23		GSM900	L	25.51	
	M	17.21			M	25.55	
	H	17.29	-92.3		H	25.47	-101.50
Band 5 (10M)	L	17.58		GSM1800	L	24.63	
	M	17.90			M	24.93	
	H	17.49	-90.64		H	25.9	-102.76
Band 7 (10M)	L	18.30		GSM1900	L	24.27	
	M	18.71			M	24.87	
	H	17.90	-92.19		H	24.59	-102.47
Band 12 (10M)	L	16.29		WCDMA-B1	L	18.93	
	M	16.16			M	18	
	H	16.04	-89.53		H	18.27	-105.77
Band 17 (10M)	L	16.16		WCDMA-B2	L	18.54	
	M	16.11			M	18.57	
	H	16.02	-87.33		H	17.63	-105.74
Band 25 (10M)	L	18.16		WCDMA-B4	L	17.36	
	M	17.23			M	17.59	
	H	17.49	-92.48		H	17.78	-105.22
Band 26 (10M)	L	17.13		WCDMA-B5	L	17.23	
	M	18.24			M	17.54	
	H	18.50	-89.58		H	17.72	-104.13
Band 28 (10M)	L	16.06		WCDMA-B8	L	17.36	
	M	16.24			M	17.29	
	H	16.07	-89.51		H	17.14	-104.32
Band 66 (10M)	L	17.12					
	M	18.32					
	H	18.51	-92.18				



remark:

1. FPC material: 0.5oz electrolytic copper, 0.5MLI PI material;
2. Feed point treatment: gold plating
3. Surface treatment: black ink.
4. Back adhesive: 3ML94711LF Packing method: Full-page shipment
5. Screen printing font: white
6. Width tolerance ± 0.05 , spacing tolerance ± 0.05
7. Copper thickness: 8 - 15 μm
8. Impedance: None
9. The area coated with copper foil is the circuit line area. The area coated with is the feed point area. The area coated with is the substrate area.
10. Safety regulations requirements: ROHS 2.0, ten items
11. Quality requirements shall be implemented in accordance with the "IQC Incoming Inspection Specifications".

Shenzhen free technology Co., LTD

		Third Angle	Project		P1916	Date	2025.12.19	
0~10	± 0.13		Part Name	MAIN		Designed by	MD	TIANJIN
10~18	± 0.15		Part No.	F01-7288-R04-V04		Checked by	RF	BIANBO
18~30	± 0.18		Material	N/A		Approved by		
30~40	± 0.20							
40~	± 0.25		DWG No.			Unit mm	Scale 1:1	Rev A
Location		N/A						

Rev	Description	Date	Remark
1	New drawing		