

# 深圳市千目通讯科技有限公司

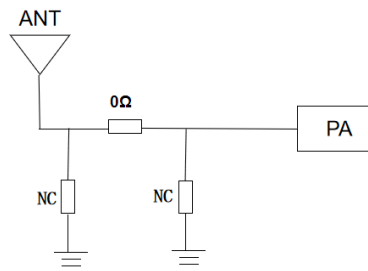
Shenzhen Qianmu Communication Technology Co.,Ltd.

## Antenna Acknowledgement

<b>Applicable model</b>	Fourth generation alarm		
<b>Customer</b>	Ningbo Pelican Intelligent Fishing Gear Co., Ltd.		
Specification description			
	<b>Product content</b>	<b>Specification</b>	<b>Customer material code</b>
<b>Specification description</b>	Transmitting antenna	Double-ended stripping and tinning	M30022
Change of resume			
<b>Serial number</b>	<b>Date</b>	<b>Version</b>	<b>Brief description of the changes</b>
1	2023-04-28	V1.0	New project
2			
3			

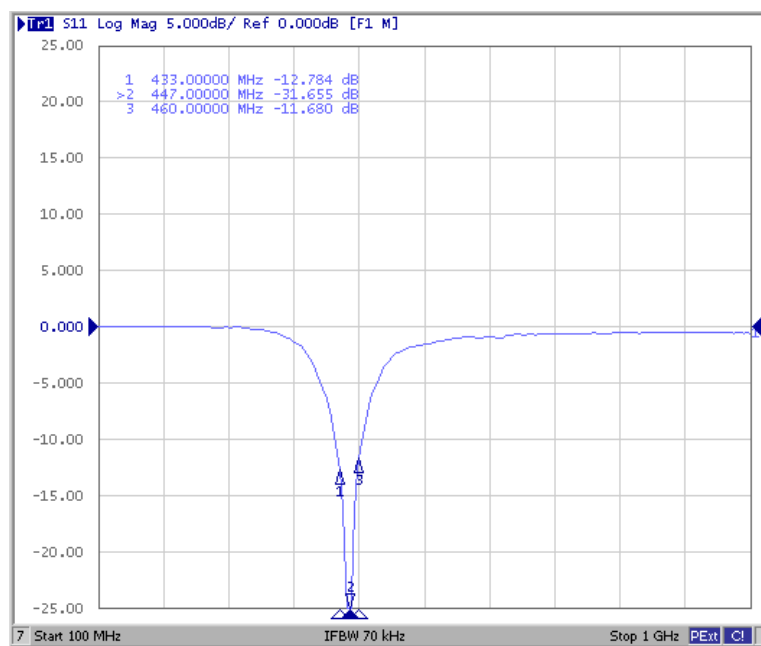
Supplier sample confirmation					
<b>Research and development</b>	<b>Structure</b>	<b>Audit</b>	<b>Judgement</b>		
			PASS FAIL		
Customer sample confirmation					
<b>Electron</b>	<b>Structure</b>	<b>Project</b>	<b>Procurement</b>	<b>Quality</b>	<b>Audit</b>
<b>Reasons for rejection or other precautions:</b>					

# 1、 Matching Circuit



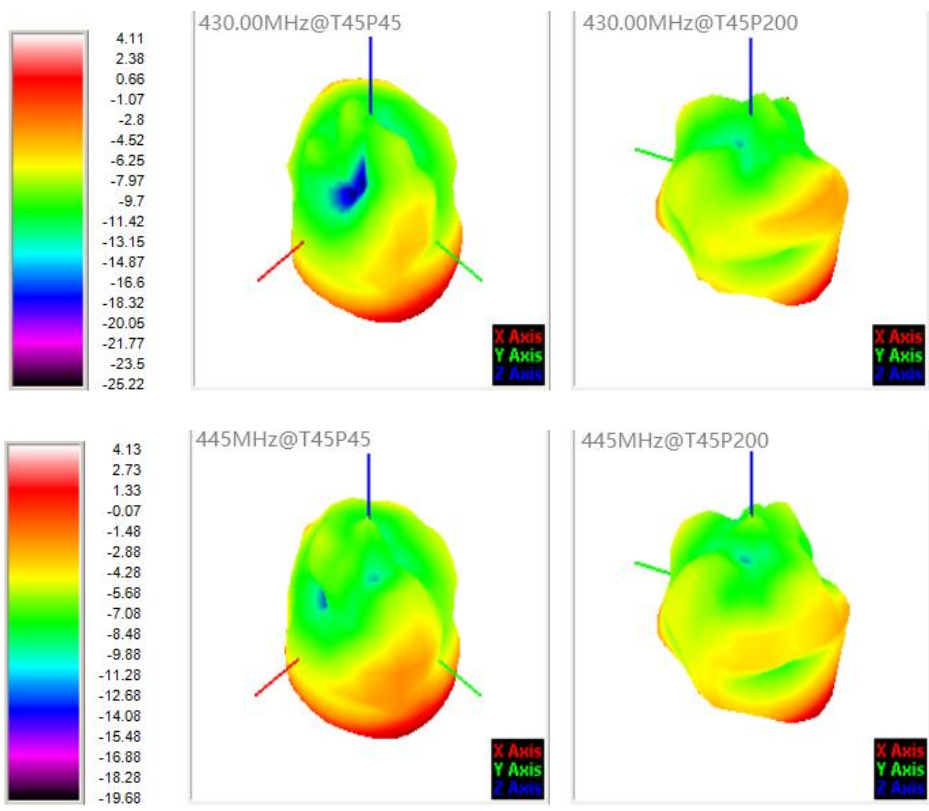
No changes have been made to your original matching circuit

# 2、 Antenna S11 passive parameter



### 3、Antenna efficiency and gain

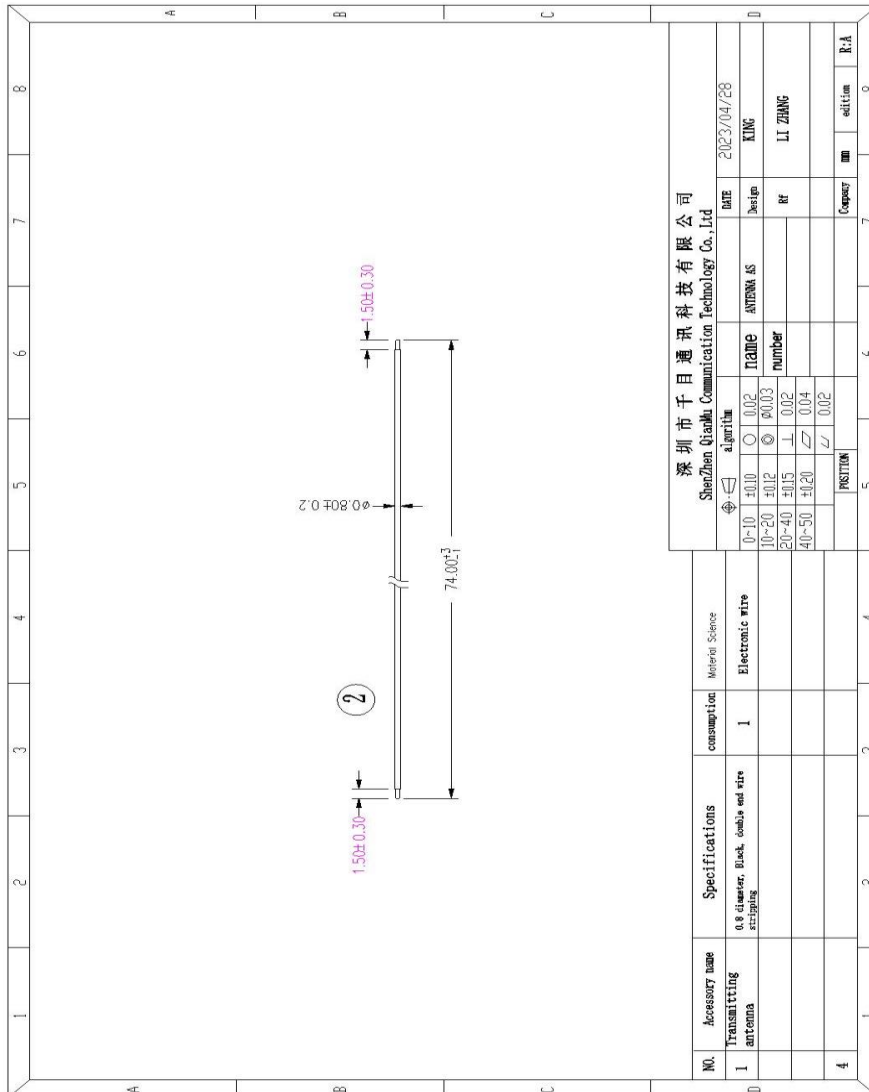
Frequency ID	1	2	3	4
Frequency (MHz)	430.0	435.0	440.0	445.0
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.95	-3.23	-2.88	-2.38
Peak EIRP (dBm)	4.11	3.78	4.11	4.13
Directivity (dBi)	7.06	7.01	6.99	6.50
Efficiency (dB)	-2.95	-3.23	-2.88	-2.38
Efficiency (%)	50.70	47.50	51.50	57.80
Gain (dBi)	4.11	3.78	4.11	4.13
NHPRP $\pm \pi/4$ (dBm)	-3.83	-4.20	-3.84	-3.41
NHPRP $\pm \pi/6$ (dBm)	-5.80	-6.20	-5.76	-5.37
NHPRP $\pm \pi/8$ (dBm)	-7.73	-8.11	-7.59	-7.12
Upper Hem. PRP (dBm)	-9.12	-8.87	-8.59	-8.22
Lower Hem. PRP (dBm)	-4.15	-4.61	-4.24	-3.69
Upper Hem. PRP (%)	12.24	12.98	13.85	15.07
Lower Hem. PRP (%)	38.44	34.56	37.63	42.78



## 4、 Antenna placement



## 5、 Structural drawings



Manufacturer: ShenZhen QianMu Communication Technology Co., Ltd

Address: No. 425, 443, 4th Floor, Building A, Huafeng Zhigu Hangcheng High tech Industrial Park, Hangcheng Community, Bao'an District, Shenzhen, China