

Antenna Specifications

Material Description/Name: Radio Antenna

Product model:QT450GSB

Date:2020/08/06

Edition:V1.0

Customer Name: Qianxun Spatial Intelligence (Zhejiang) Inc.

Dipole communications Limited

***5th Floor, Building 2, Zone B, Luocun New Light Source Industrial
Base, Nanhai District, Foshan City, Guangdong Province***

phone : 0757-81807860

Product Index Book

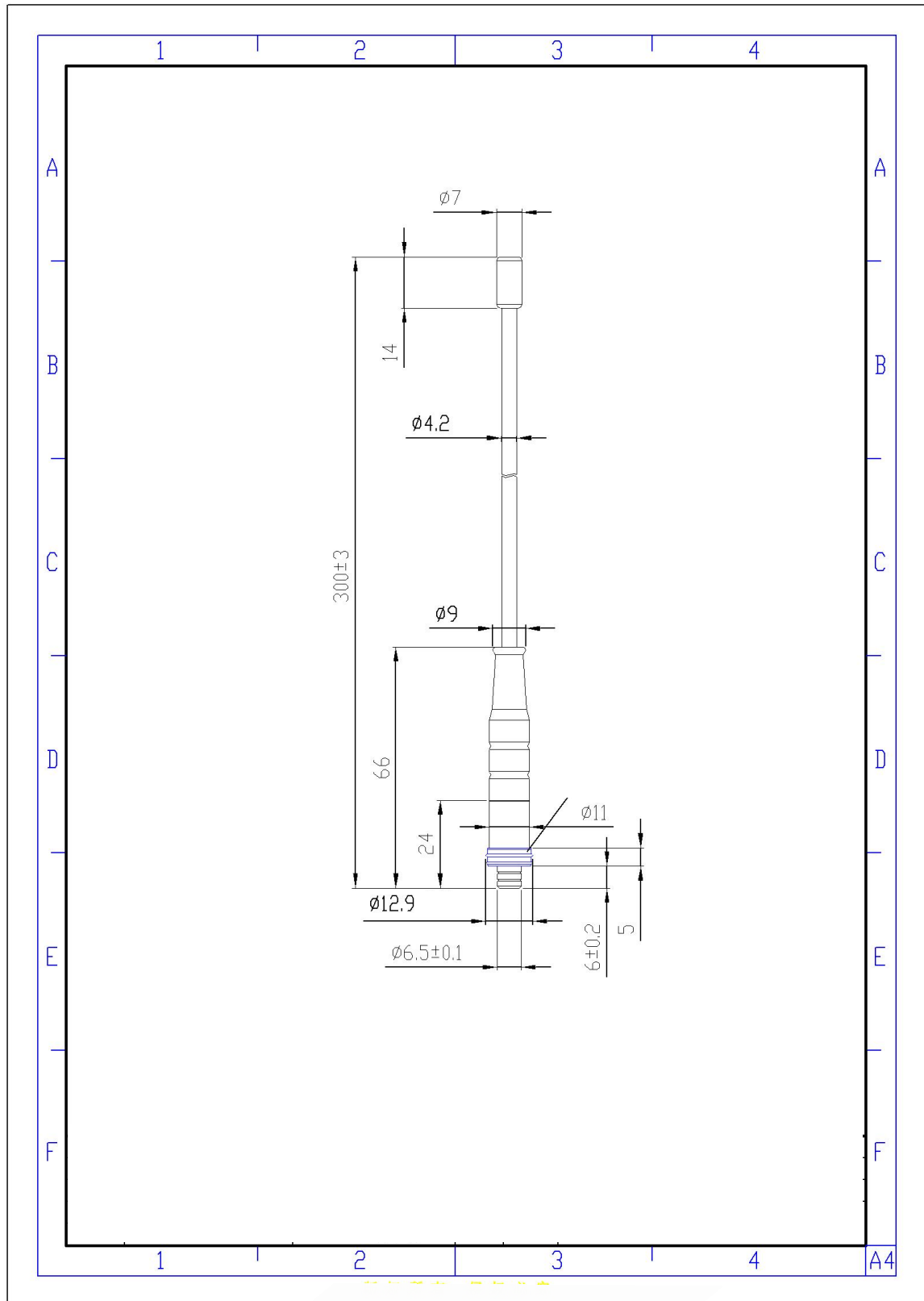
410~470MHz 0dBi

TECHNICAL INDEX	QT450GSB
Frequency range (MHz)	410~470
Bandwidth (MHz)	60
Polarization mode	vertical
Maximum gain (dBi)	0
Impedance(Ω)	50
Vswr Impedance	440~460MHz: ≤ 2 ; 410~470MHz: ≤ 3
maximum power (W)	20
Joint type	SMB
length of antenna (mm)	300
Antenna color	Black
Antenna weight (g)	26
Extreme wind (km/h)	90
Operation temperature ($^{\circ}\text{C}$)	-40~+75
storage temperature ($^{\circ}\text{C}$)	-55~+85

Note: The antenna is an elastic whip shaped structure that is resistant to bending .



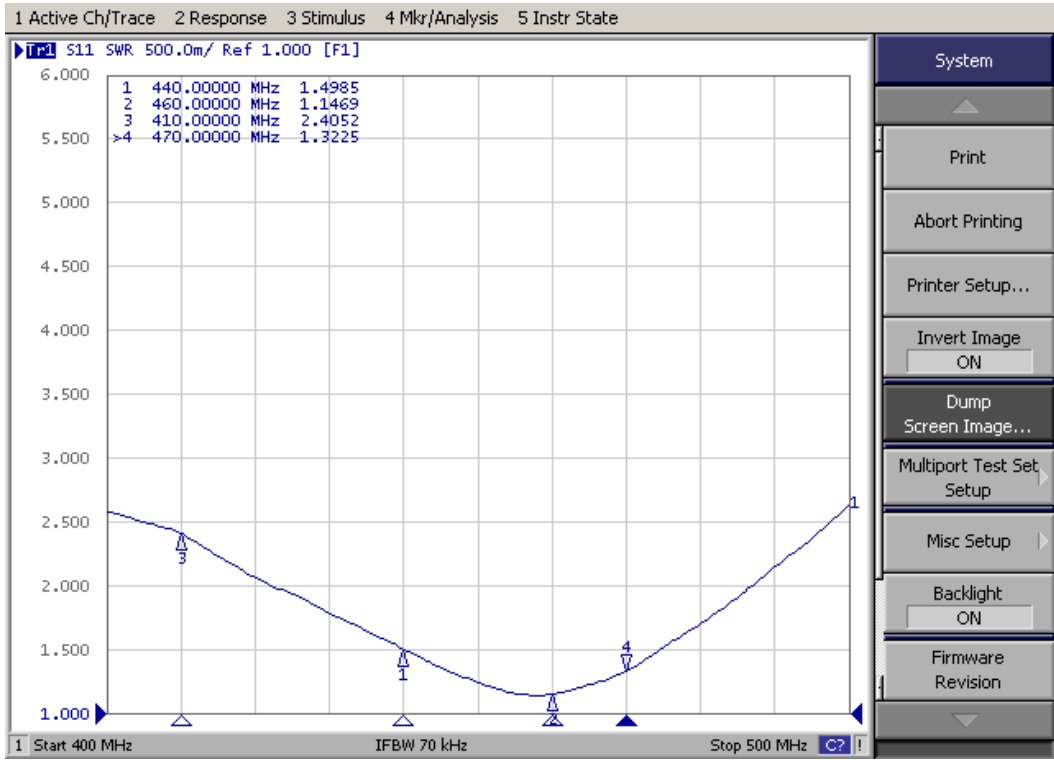
External dimension diagram of the product



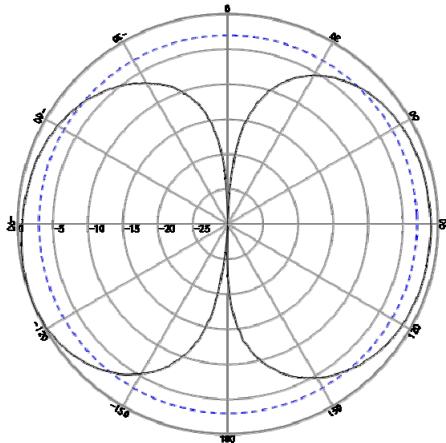
Product Test Report

Number	Measurement items	Indicator requirements	unit	measurement result	
1	Frequency range	410-470	MHz	410-470	
2	vswr	≤2	/	<1.5 (440~460MHz) <3.0 (410~470MHz)	
3	Maximum gain	0	dBi	410MHz	0
				420MHz	0
				430MHz	0
				440MHz	0
				450MHz	0
				460MHz	0
				470MHz	0
4	Polarization mode	vertical	/	vertical	
5	Length of antenna	30	cm	30.1	
6	Joint type	SMB	/	SMB	
7	Antenna type	Black soft whip	/	Black soft whip	
8	other	Injection molding of sheath and rubber ring belt parts	/	conform	
	/				

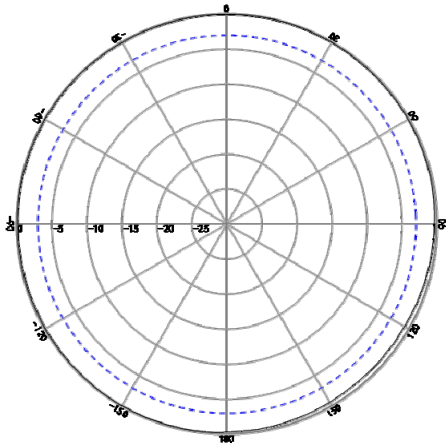
Standing wave
diagram



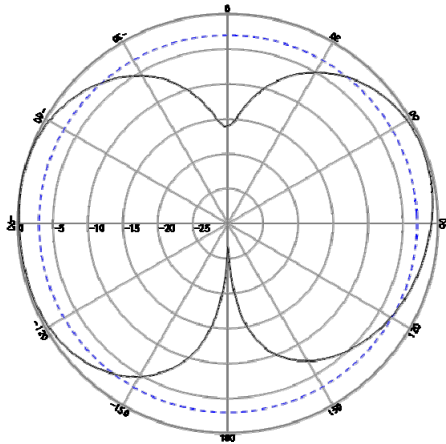
Directional pattern



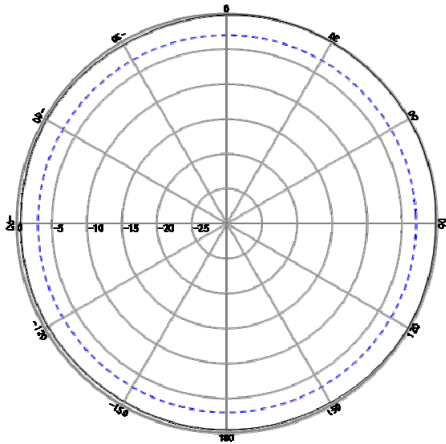
E (410MHz)



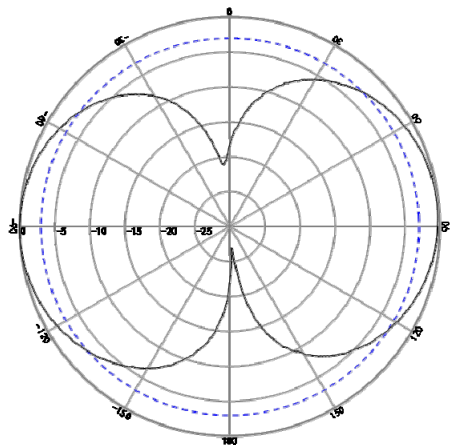
H (410MHz)



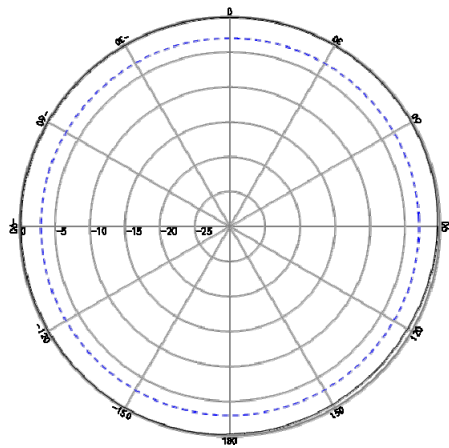
E (420MHz)



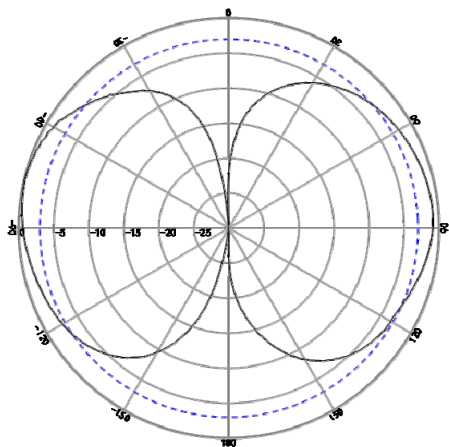
H (420MHz)



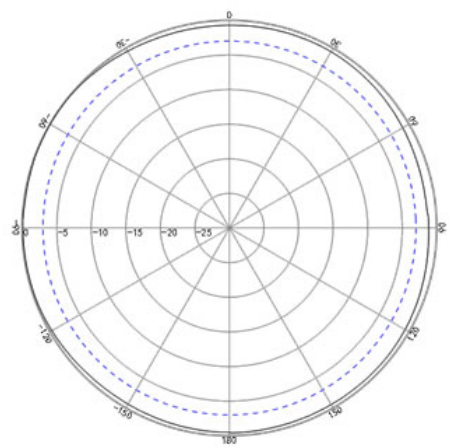
E (430MHz)



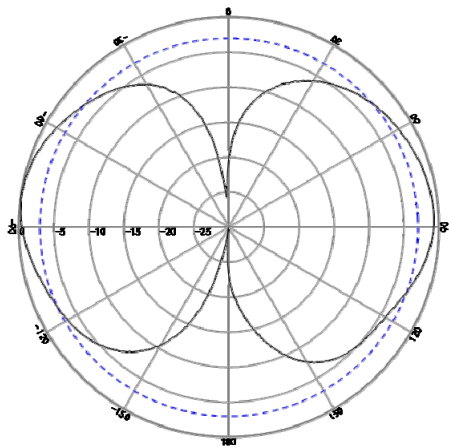
H (430MHz)



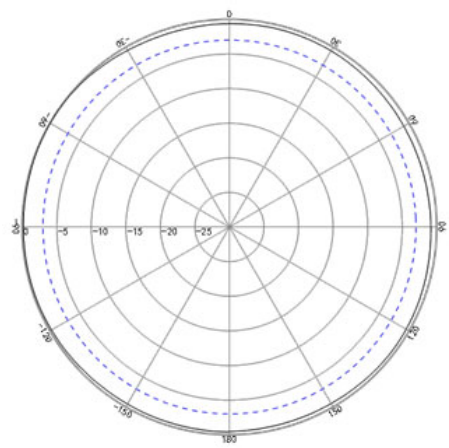
E (440MHz)



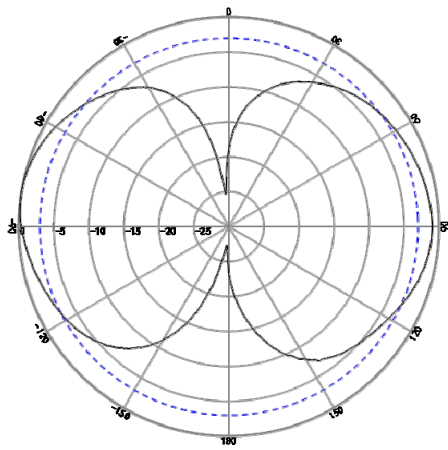
H (440MHz)



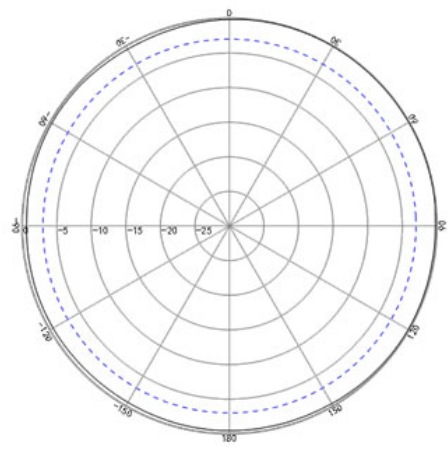
E (450MHz)



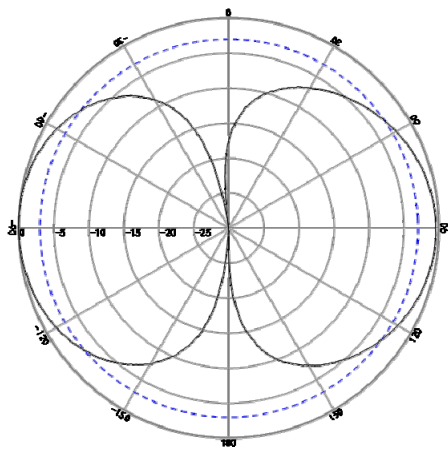
H (450MHz)



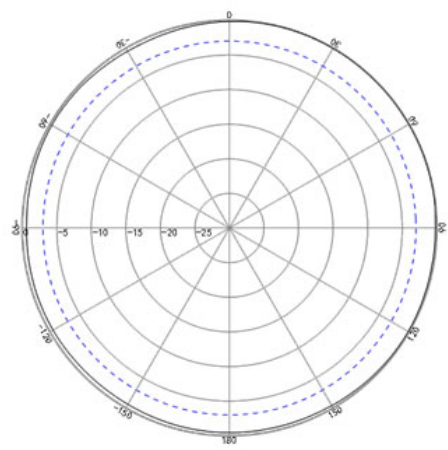
E (460MHz)



H (460MHz)



E (470MHz)



H (470MHz)