



Antenna Part Specification

Project name:	CE-2225N(T2C)
Material category:	R-antenna
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Version:	V1.0
Date:	2025.4.27



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Change record			
Compile / change date	Reason for change	Changed content	Version
2025.4.27	First edition	First edition	V1.0

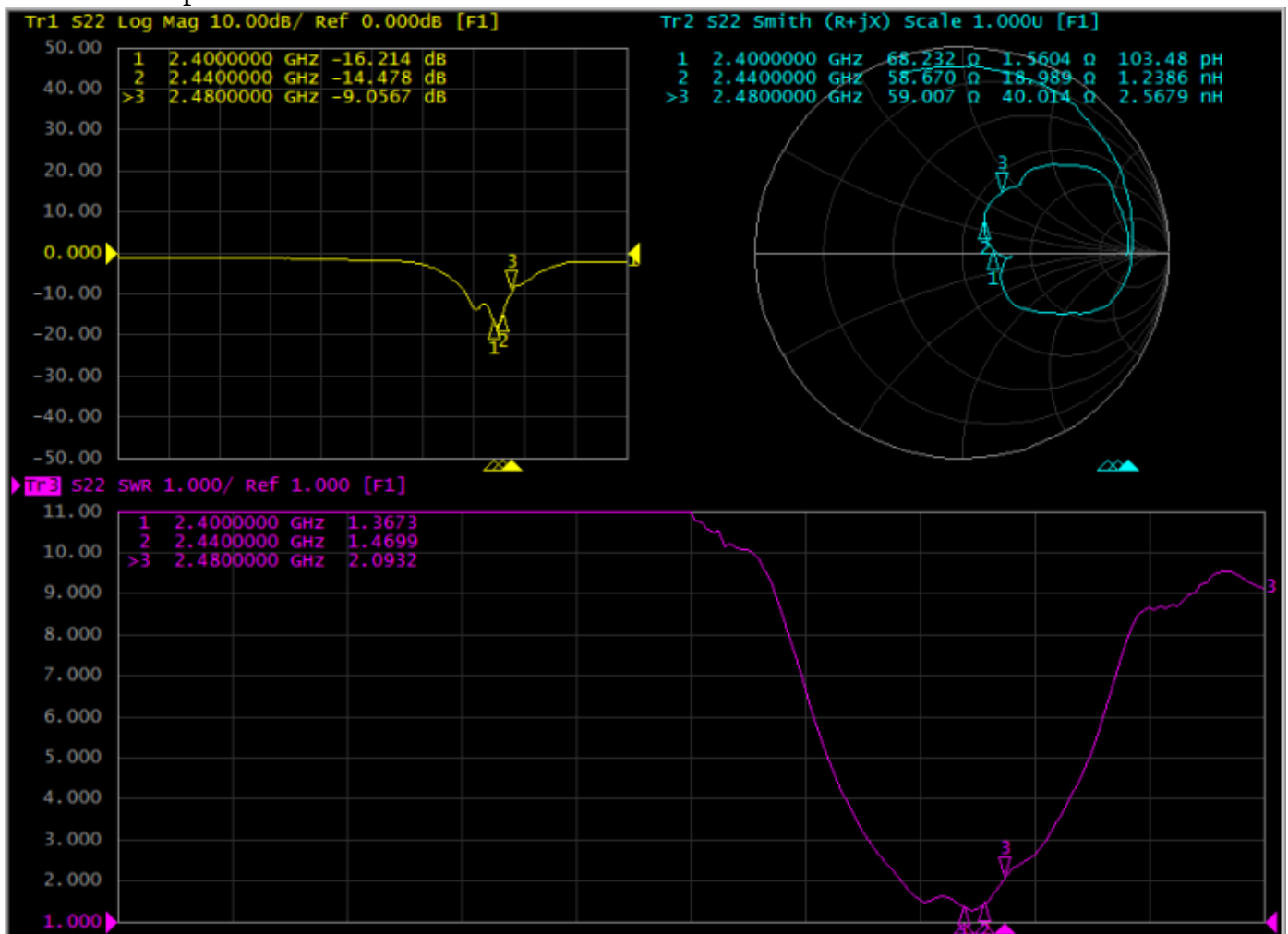


I: The report of passive data



Angilent E5071C

antenna S11 parameter:



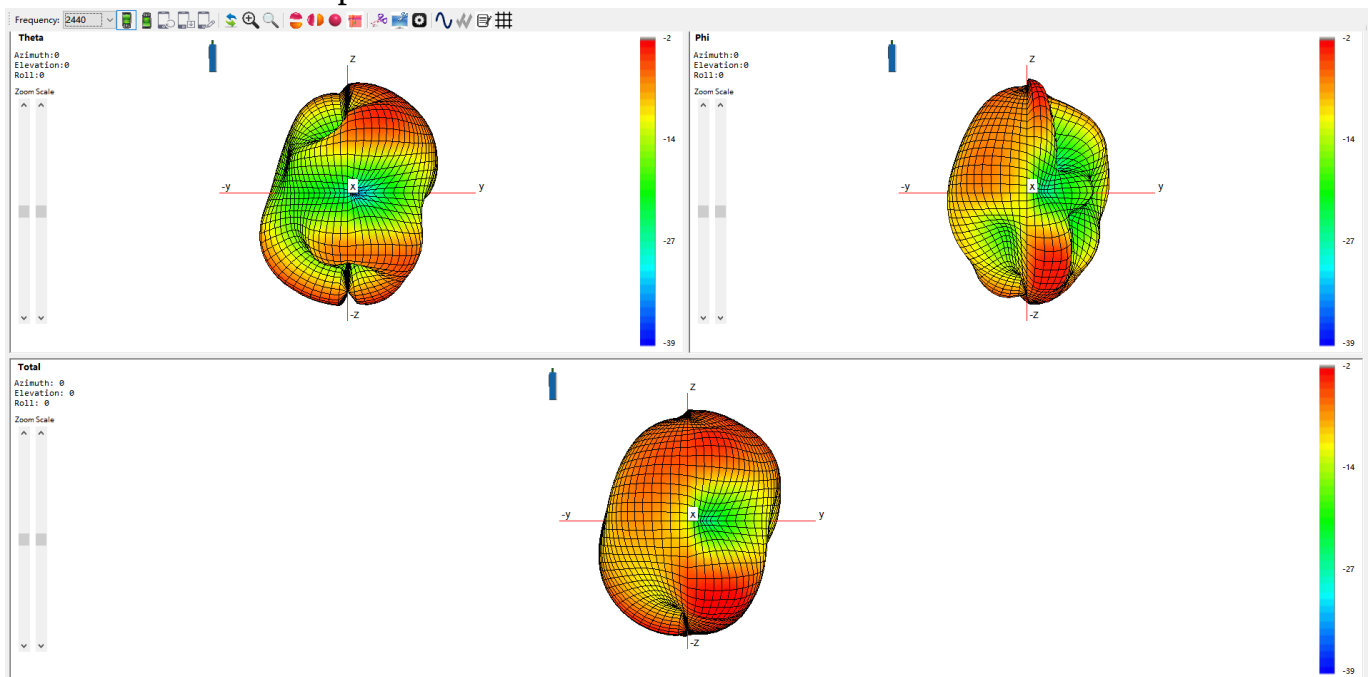


Efficiency:

2400-2480 MHz			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	21.4%	-6.7	-2.0
2410	21.8%	-6.6	-1.9
2420	22.8%	-6.4	-1.9
2430	22.7%	-6.4	-2.0
2440	21.9%	-6.6	-2.3
2450	21.6%	-6.7	-2.6
2460	19.6%	-7.1	-2.7
2470	19.8%	-7.0	-2.9
2480	18.4%	-7.3	-2.9
AVG	21.1%	-6.8	-2.4

Maximum gain of Right ear antenna: -1.9

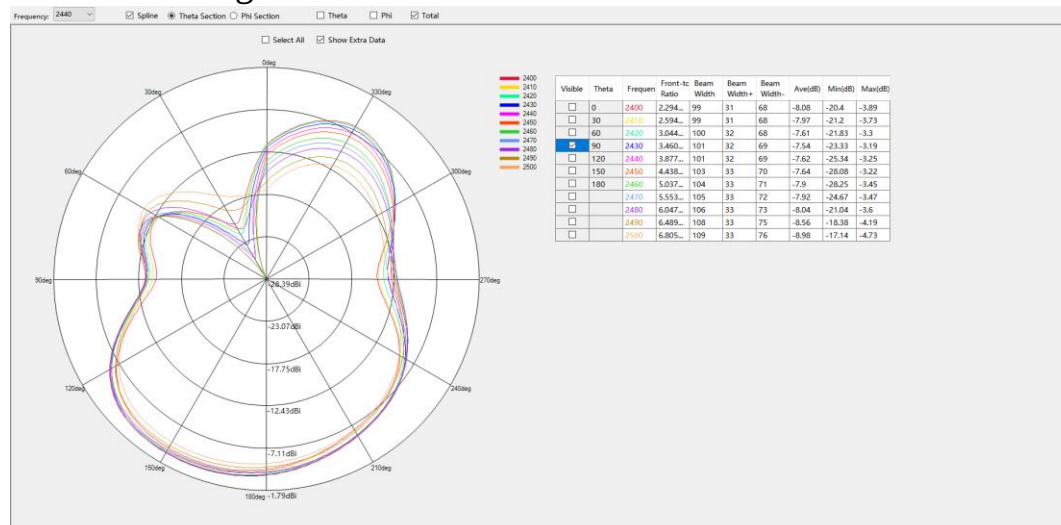
3D Antenna radiation pattern:



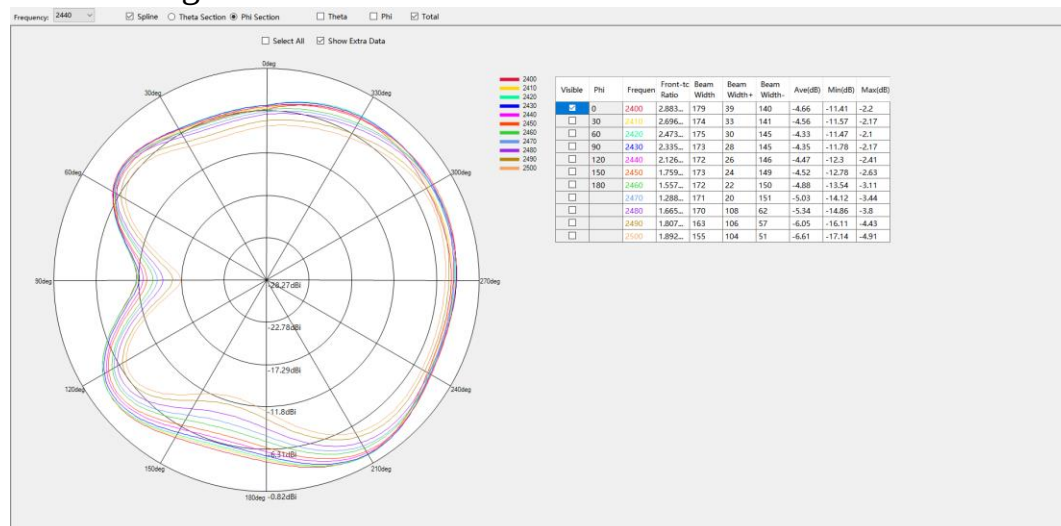


2D Antenna radiation pattern:

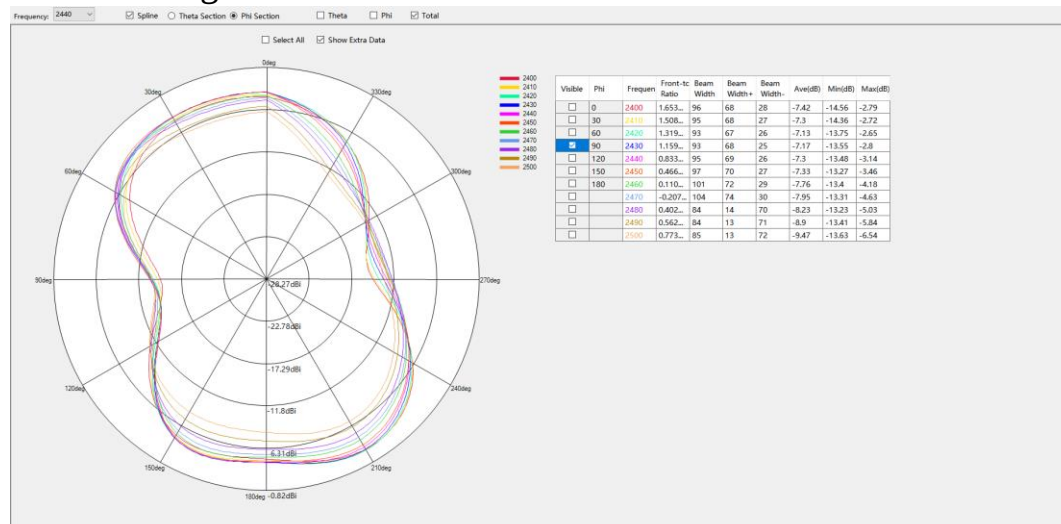
Theta=90.00deg (unit: dBi)



Phi=0.00deg (unit: dBi)



Phi=90.00deg (unit: dBi)





II: 3D Active test report of antenna

		Free		Head model	
Low, medium, and high-frequency -4	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	4.9	-89.4	-2.1	-81.5
	CH 39	6.0	-89.9	-1.4	-80.9
	CH 78	6.8	-89.7	-0.7	-80.9

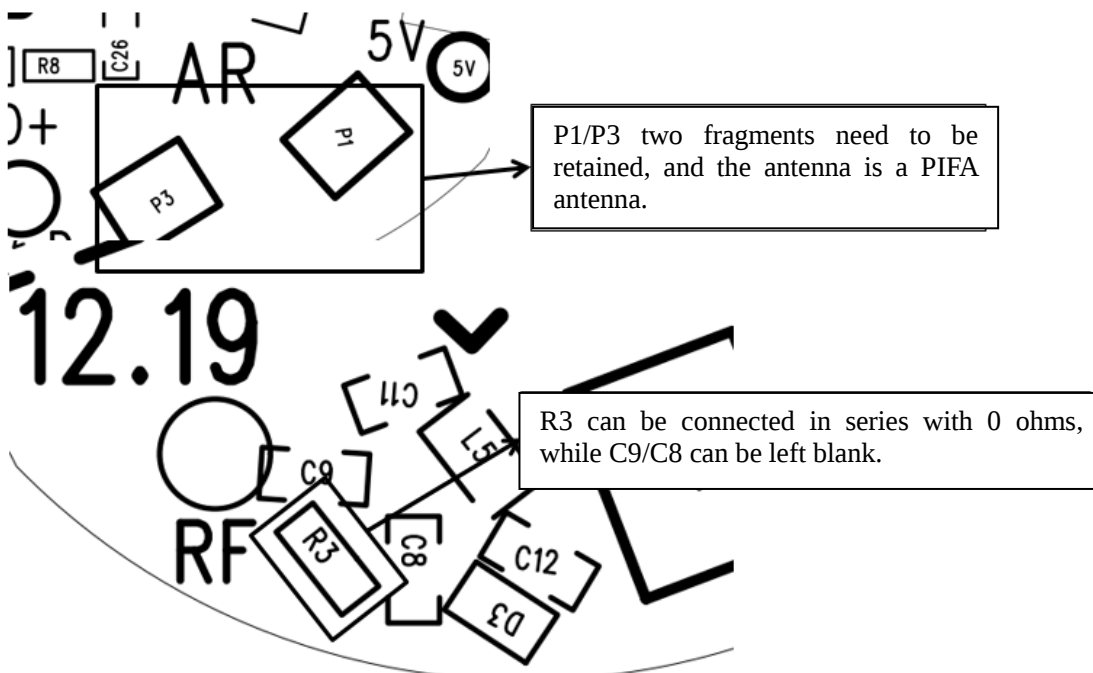
		Free		Head model	
Low, medium, and high-frequency -2	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	5.7	-89.6	-2.2	-80.0
	CH 39	6.0	-89.9	-1.3	-80.2
	CH 78	6.5	-89.6	-1.3	-80.2



OTA Standard Chamber



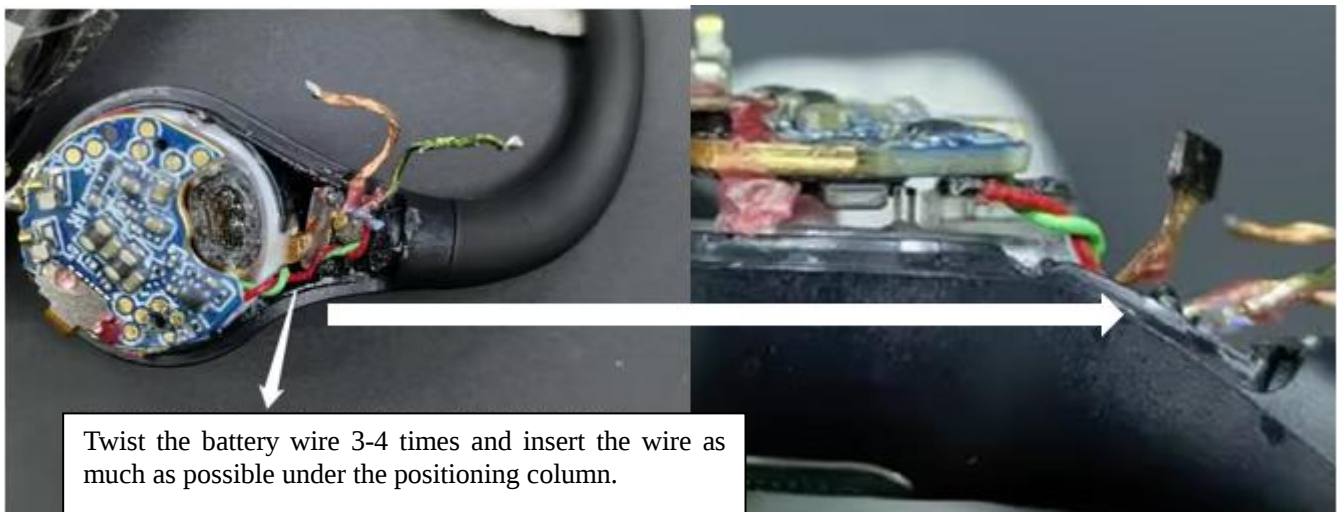
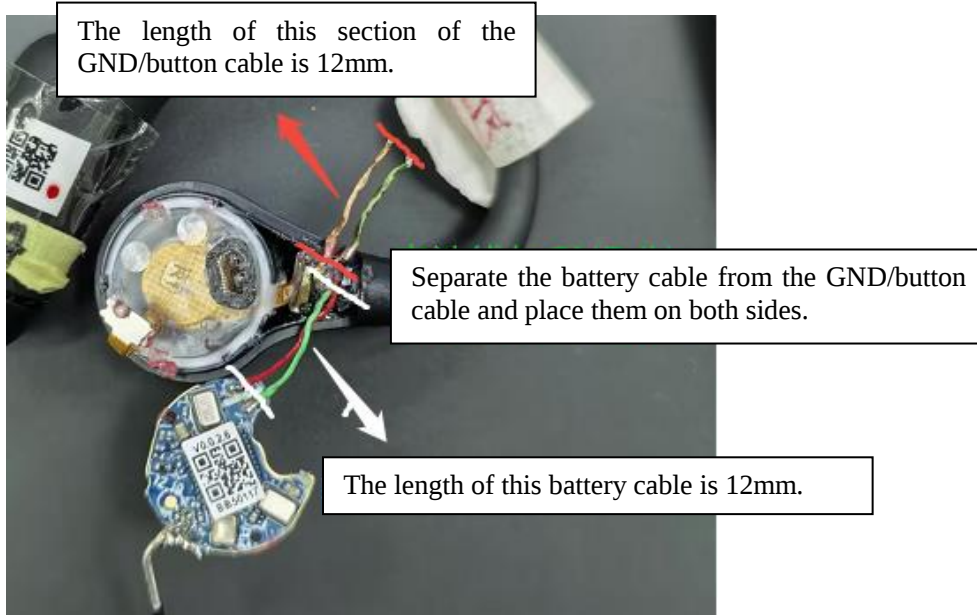
III: Matching circuit

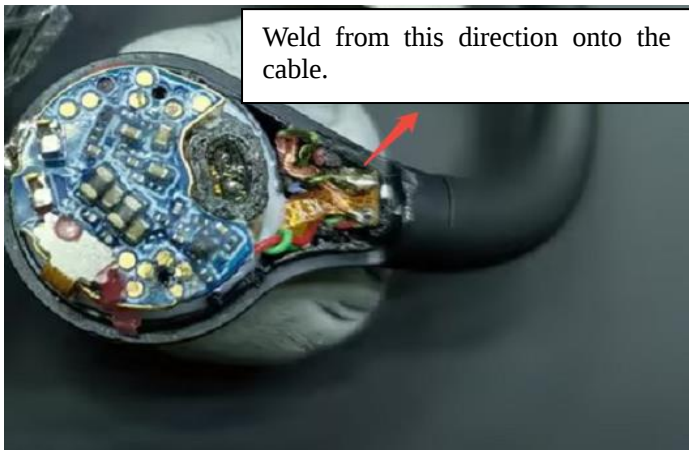




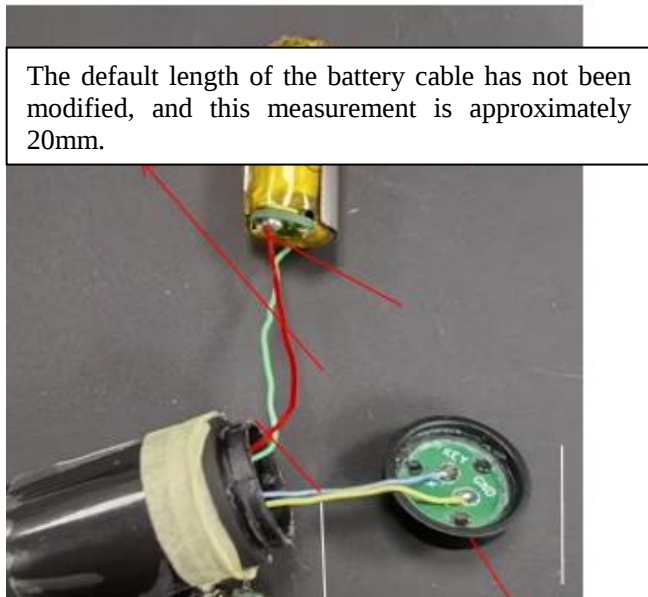
IV: Antenna placement and environmental treatment

R (near the end of the board)

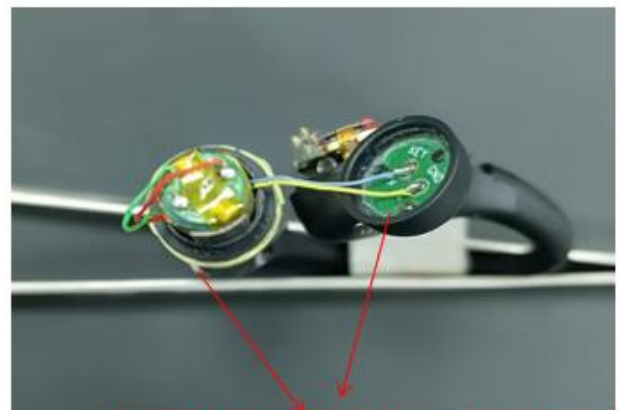




R (near the battery end)



The length of the GND line and button line has been adjusted, and this section has been modified to 10mm.





V: Antenna structure diagram file

