

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	31.5x10,L210	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Efficiency	>50	%
Connector Type	MHF-1-Plug	
Operating temperature	-20 $^{\circ}$ C~+85 $^{\circ}$ C	
Storage Temp	-20 $^{\circ}$ C~+50 $^{\circ}$ C	

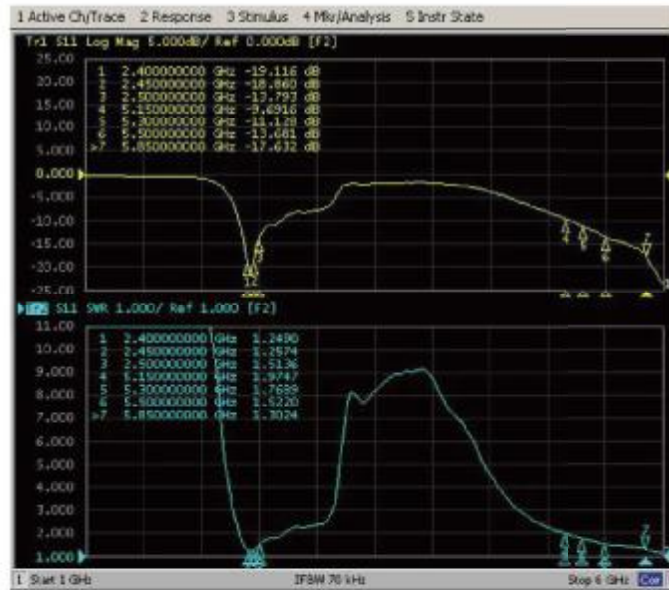
2. Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

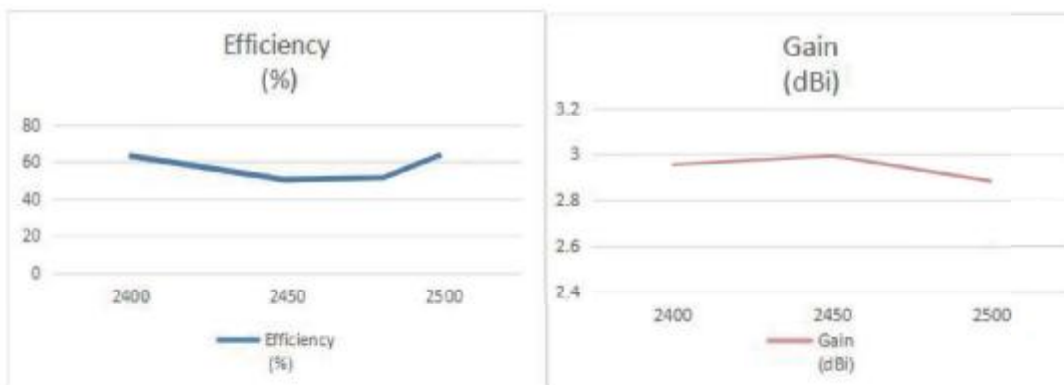
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-19.11	1.24
2450	-18.86	1.25
2500	-13.79	1.51



* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20 \times \log_{10}((VSWR+1)/(VSWR-1))$

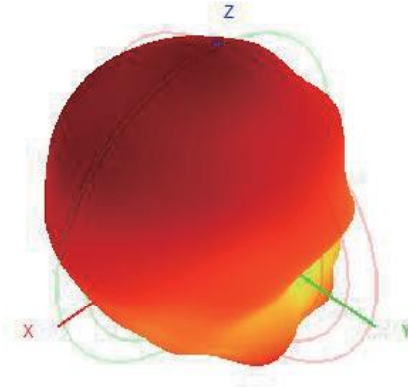
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	61.79	50.21	62.13
Gain (dBi)	2.98	3.0	2.85

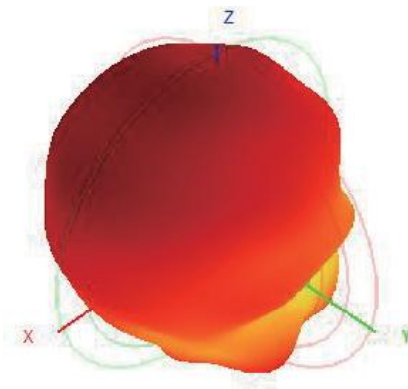


5. Radiation Pattern

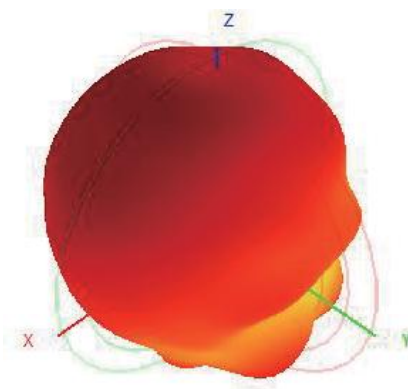
5-1 Antenna 3D Radiation Pattern



2400MHz

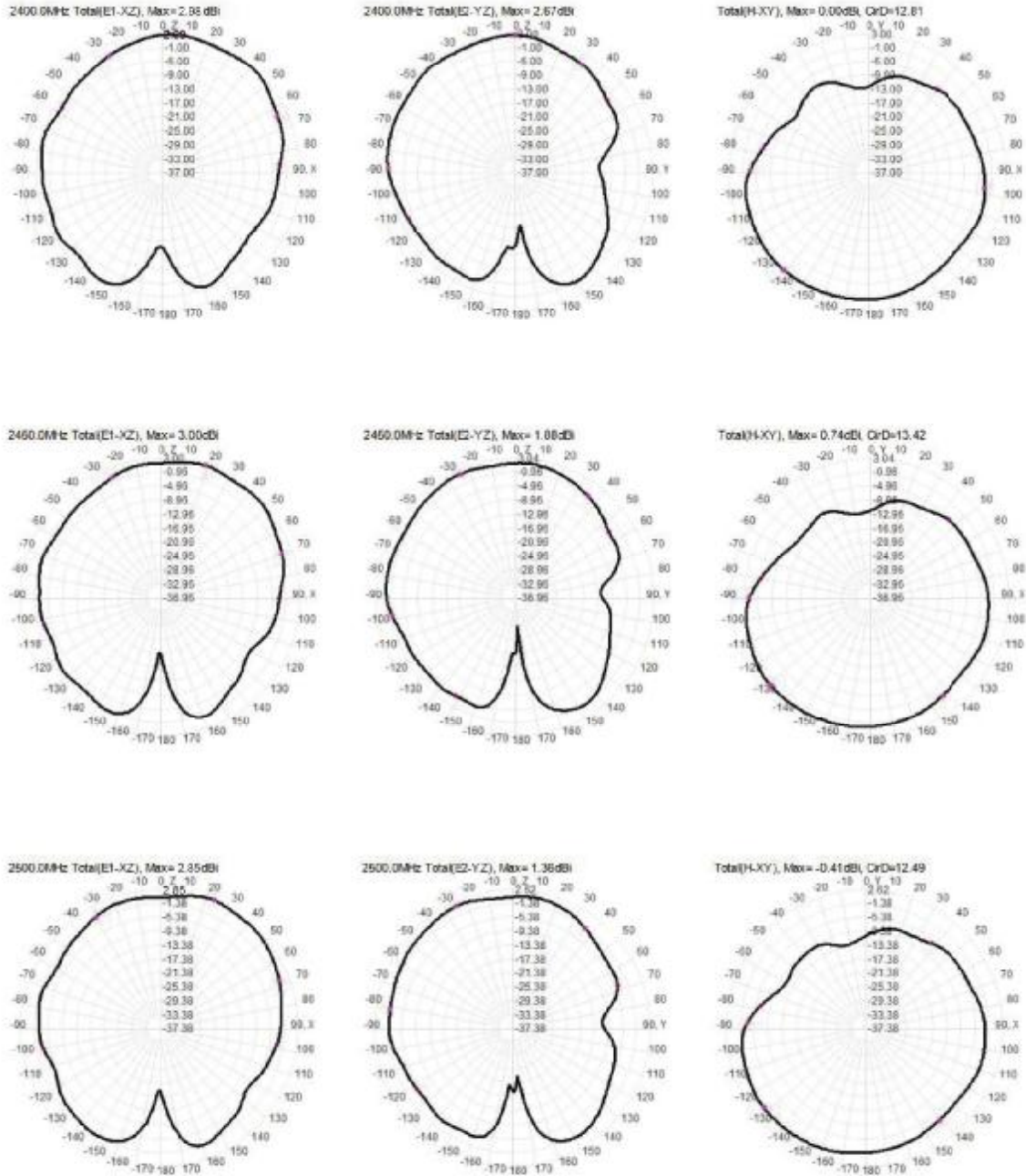


2450MHz



2500MHz

5-2 Antenna 2D Radiation Pattern



8. Mechanical Specification

