

# Product Datasheet

## CW-WZ-0171

### 2.4G/5.8G External Antenna

#### Key Features

Frequency:2400-2500MHZ/5150-5850MHZ

SMA Connector

Dimensions:394\*13mm



Band (MHz)	
Frequency (MHz)	2400-2500MHZ/5150-5850MHZ
VSWR	≤2.0/4.0
Efficiency (%)	95.90%/75.44%
Peak Gain (dBi)	9.26/4.34
Impedance (Ohm)	50

## 1. Antenna Electrical Characteristics

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Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA

## 2. Material and environmental characteristics

External structure	ABS+(PC+PBT)
Inner structure	Signal tube +Signal lever
Cable Type	RG178
Connector Type	SMA
Dimensions (mm)	394*13 MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

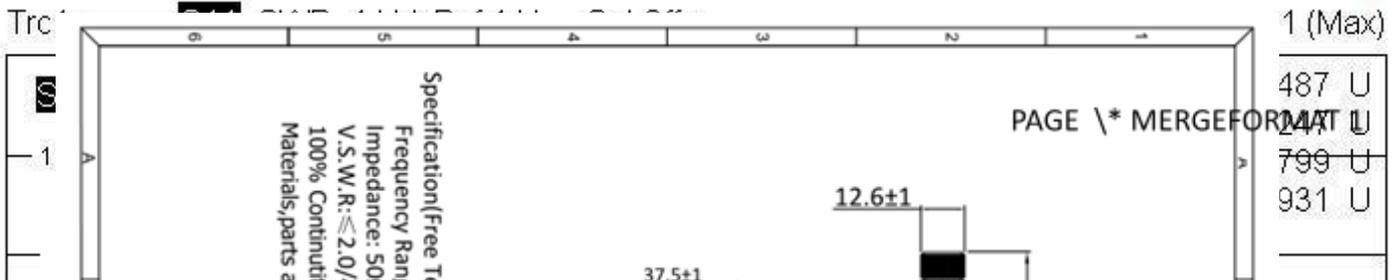
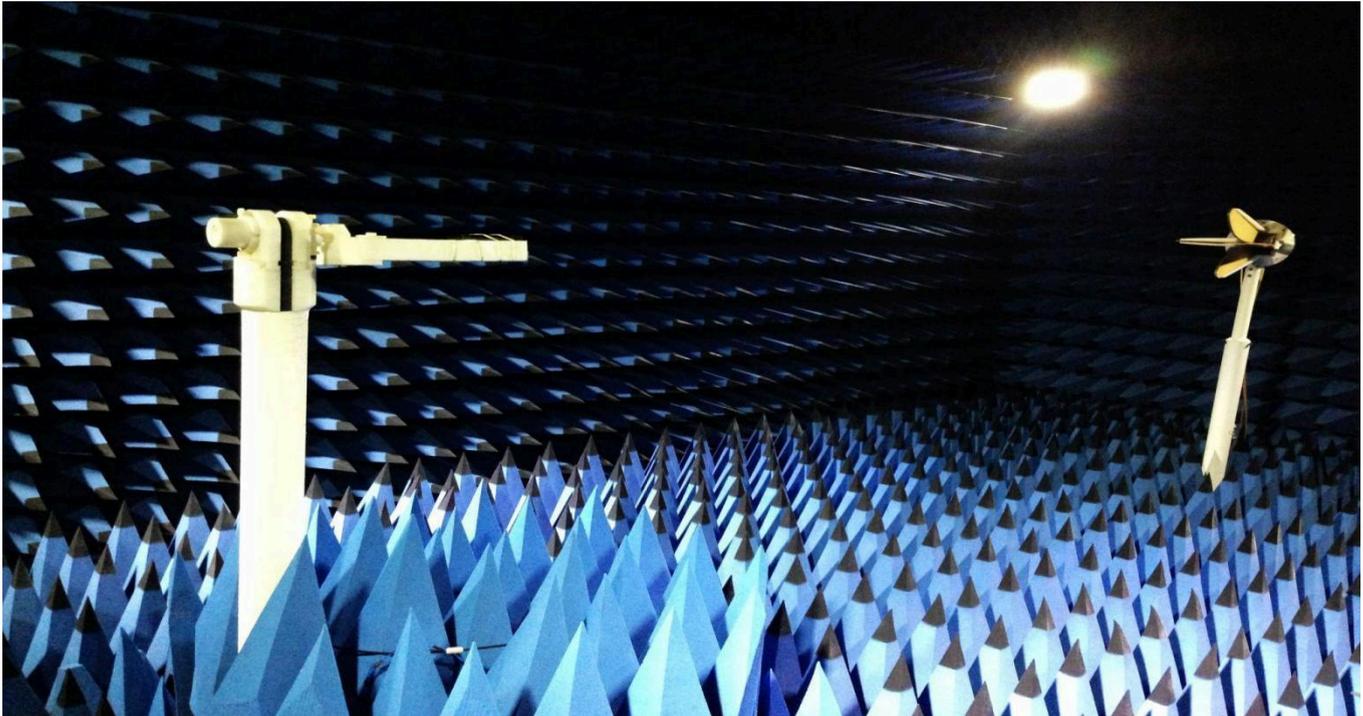
# 1. Antenna Electrical Characteristics

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### 4. Antenna test parameters

#### Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm  
Measured in Certified 3D Anechoic Chamber  
The network analyzer is Agilent 5071c  
The comprehensive tester is Agilent cmv500



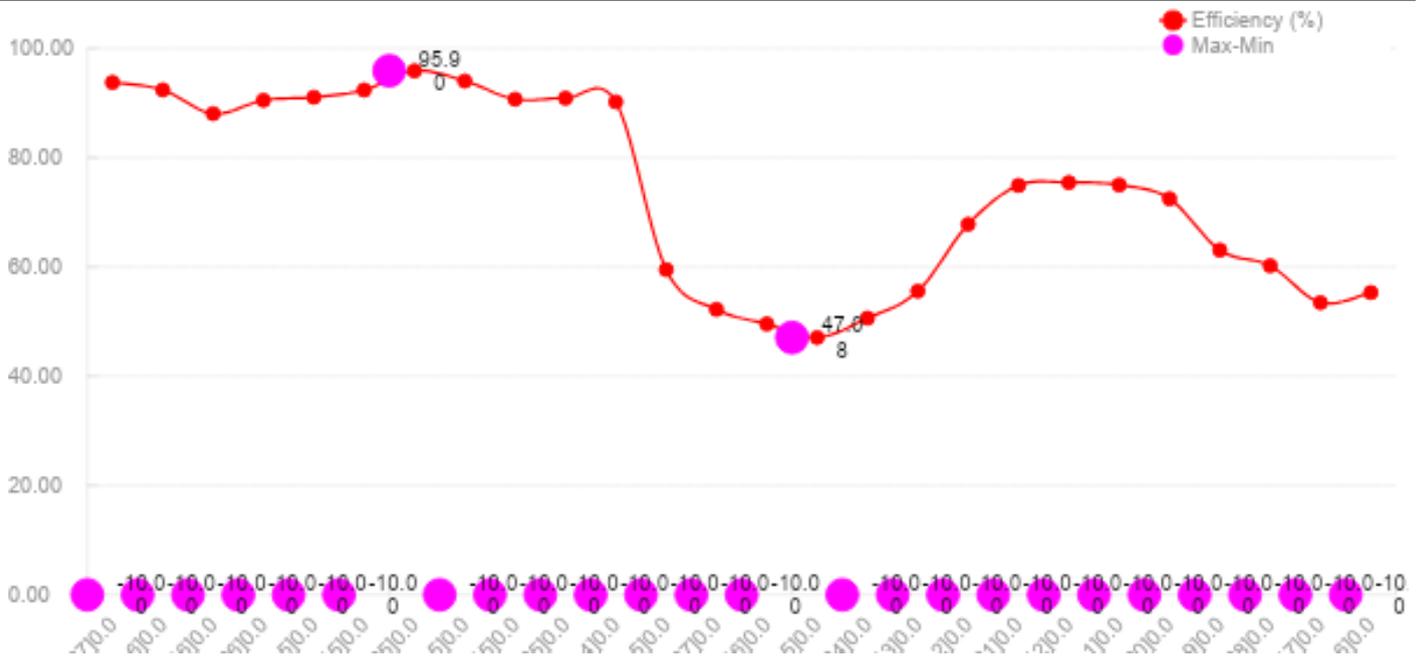
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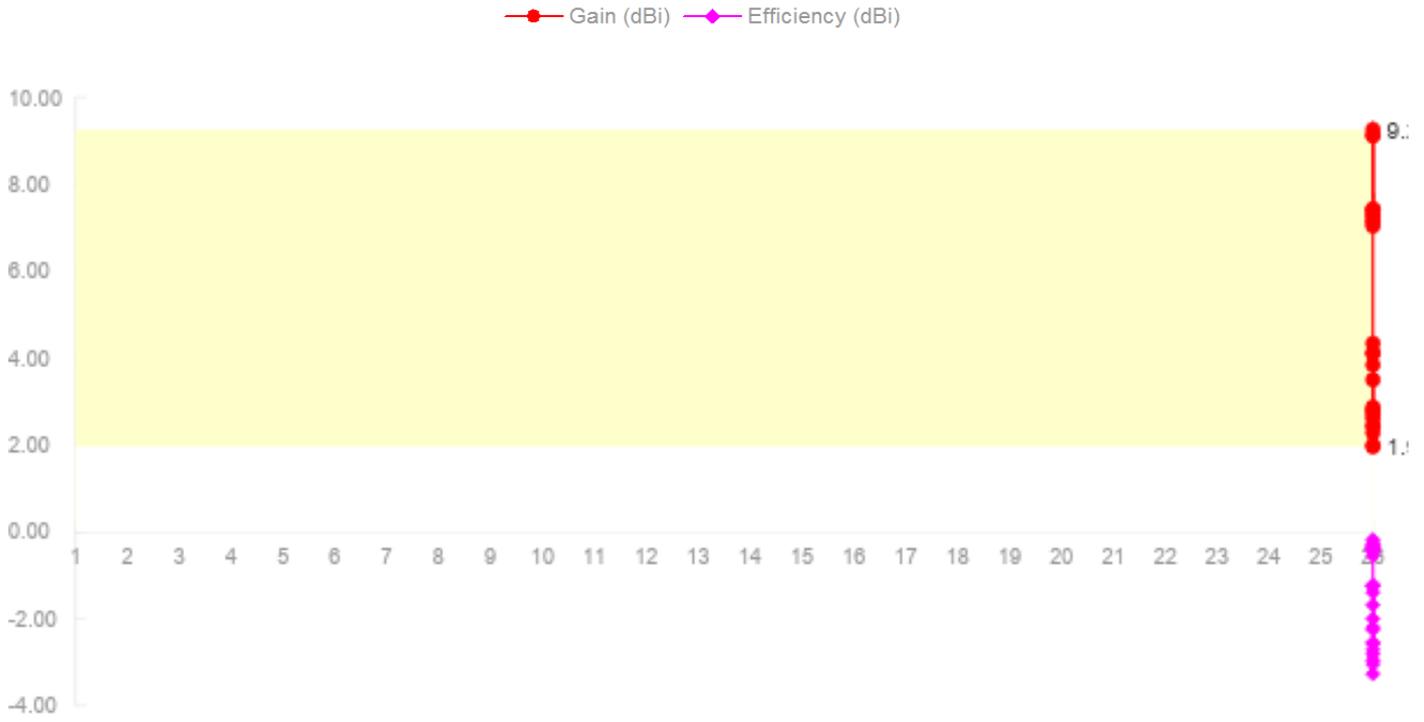
## 4.2 Efficiency

# 1. Antenna Electrical Characteristics

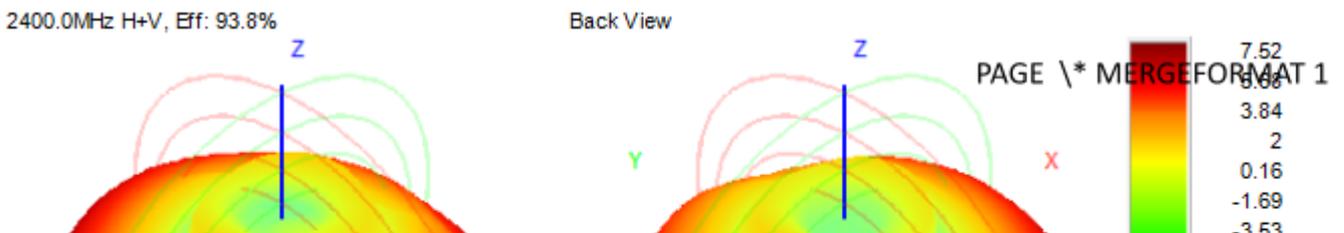
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### 4.3 Peak gain

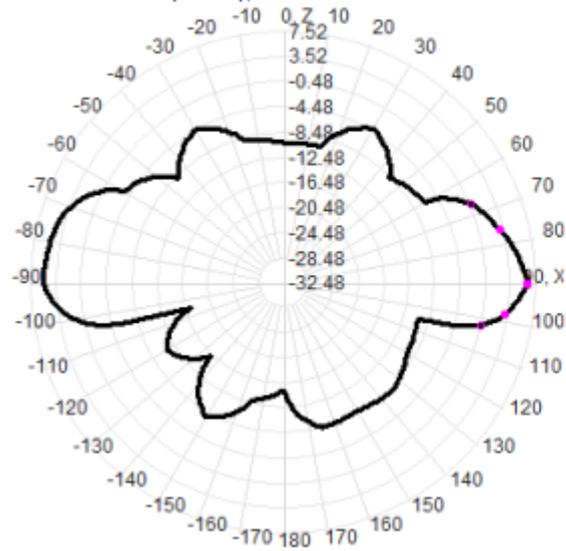


### 4.4 3D&2D Radiation Patterns

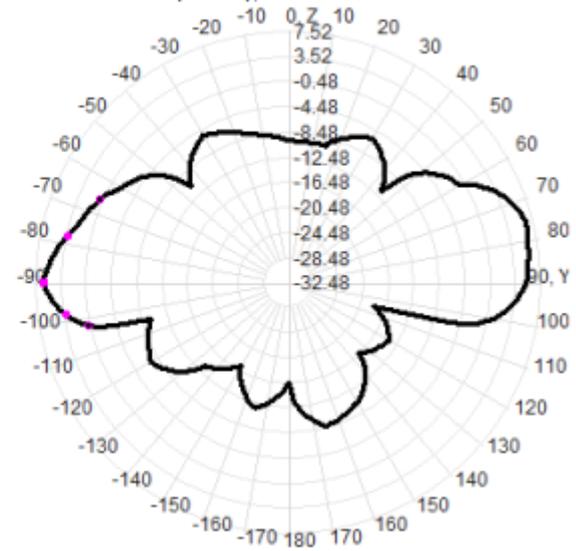


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2400.0MHz Total(E1-XZ), Max= 6.03dBi

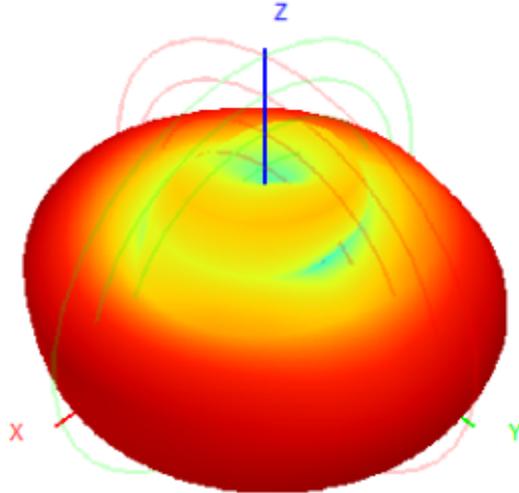


2400.0MHz Total(E2-YZ), Max= 6.29dBi

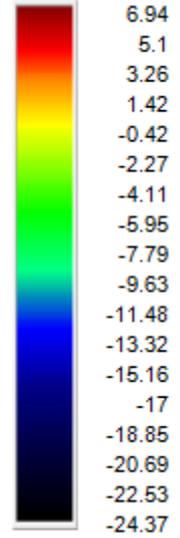
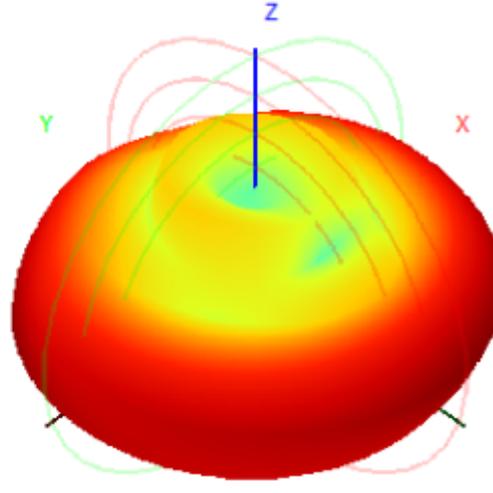


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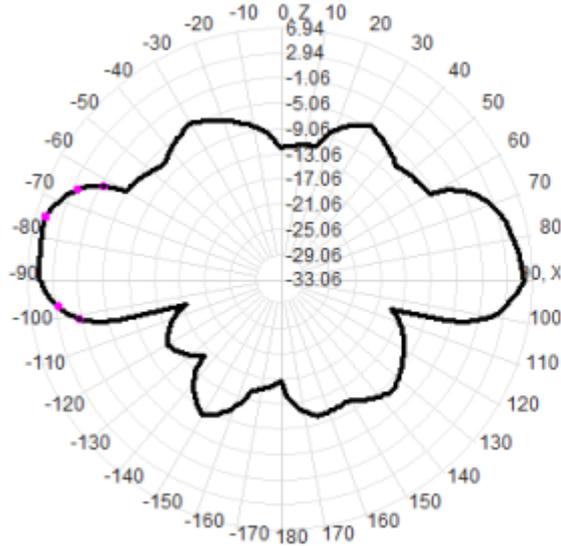
2450.0MHz H+V, Eff: 92.4%



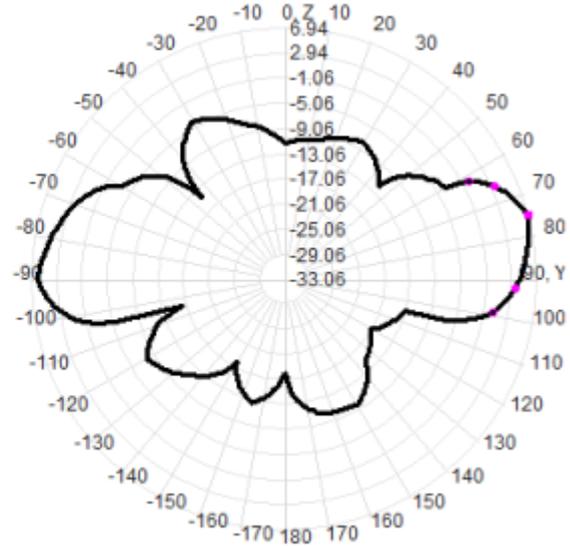
Back View



2450.0MHz Total(E1-XZ), Max= 5.45dBi

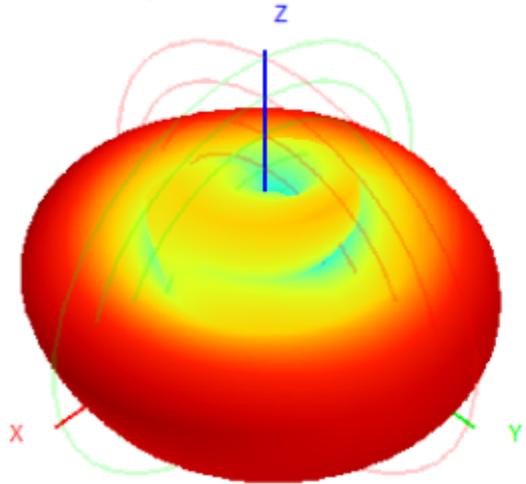


2450.0MHz Total(E2-YZ), Max= 6.68dBi

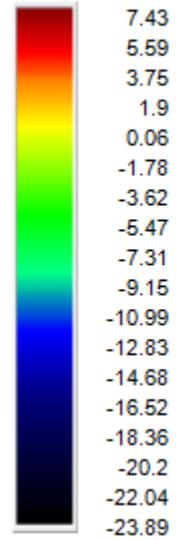
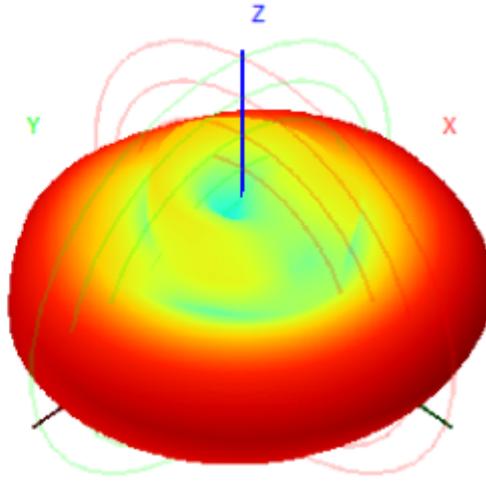


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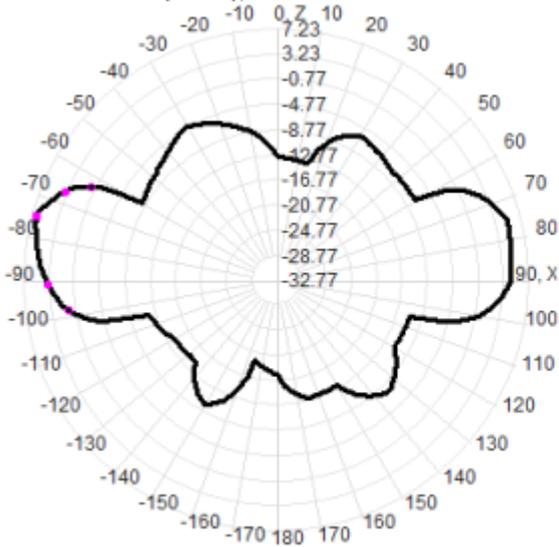
2500.0MHz H+V, Eff: 90.2%



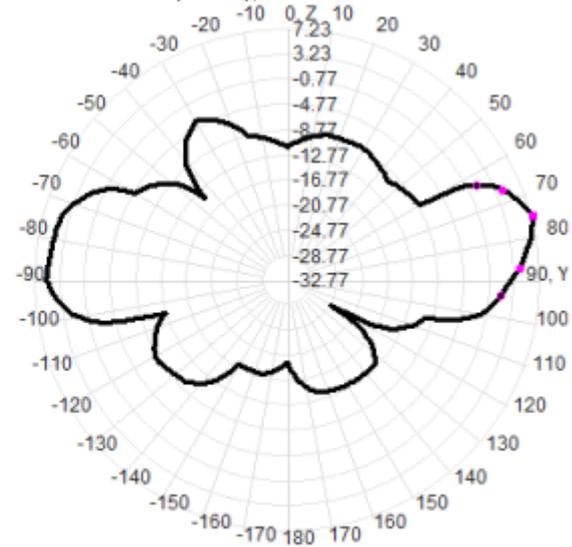
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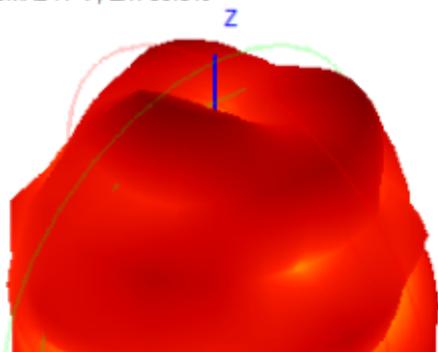
2500.0MHz Total(E1-XZ), Max= 6.57dBi



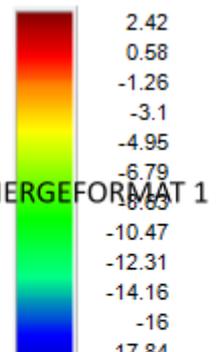
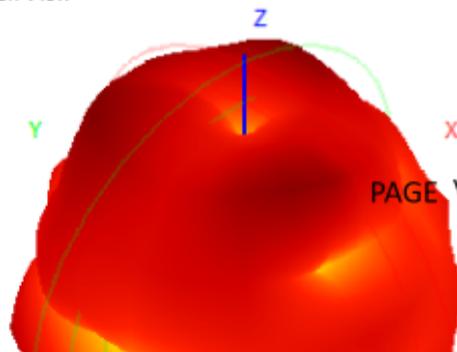
2500.0MHz Total(E2-YZ), Max= 7.23dBi



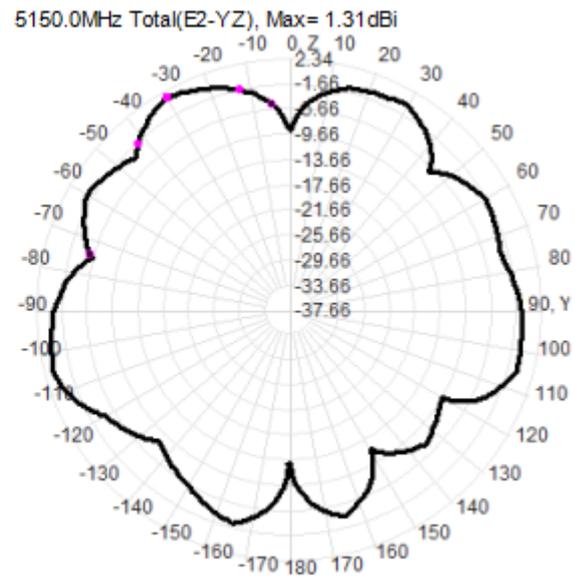
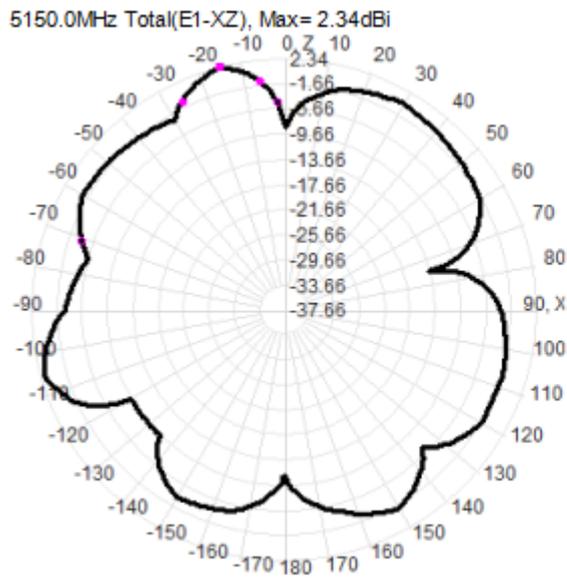
5150.0MHz H+V, Eff: 59.5%



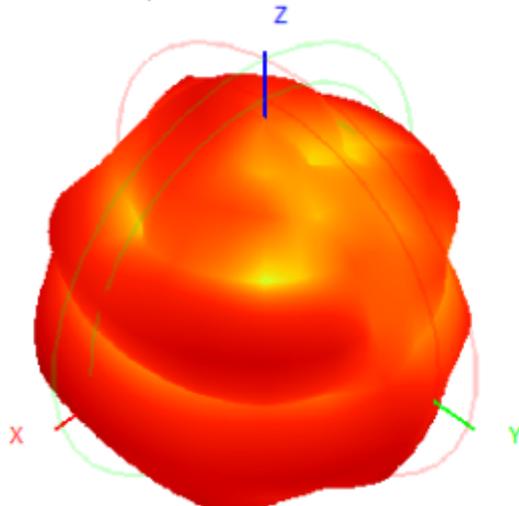
Back View



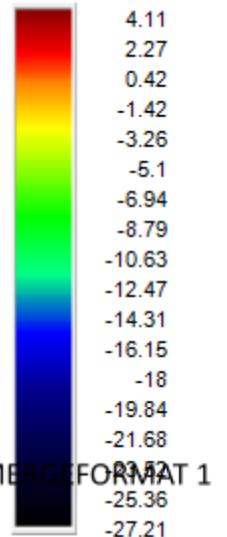
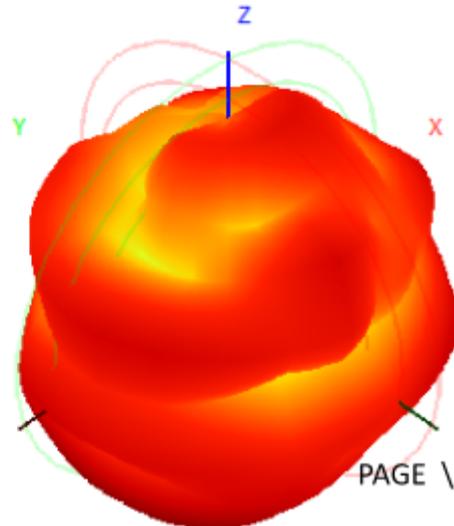
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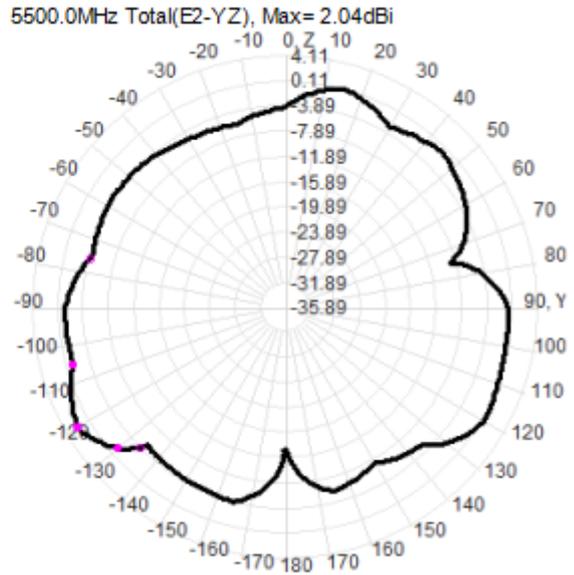
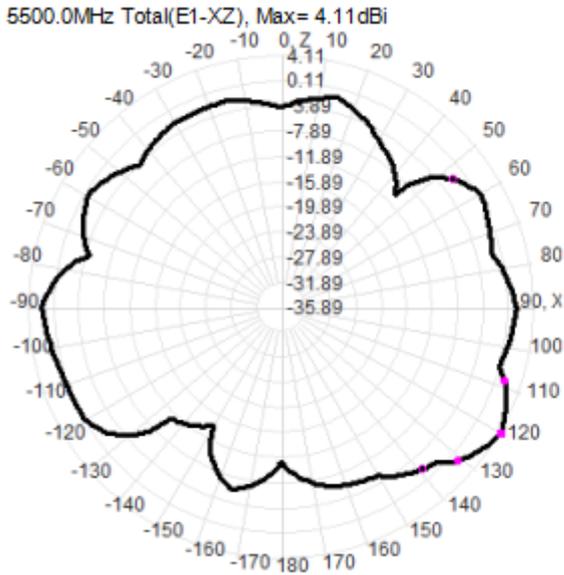
5500.0MHz H+V, Eff: 74.9%



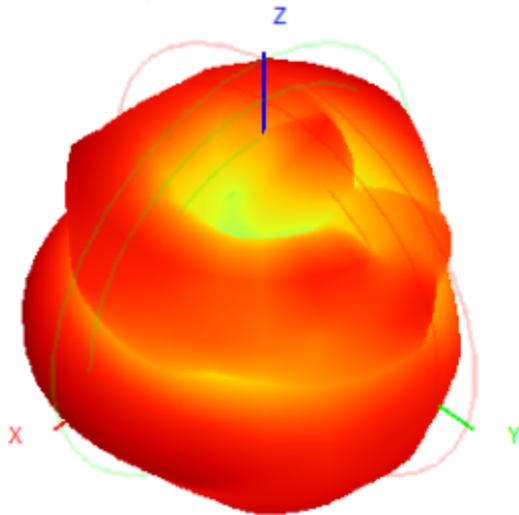
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# Product Datasheet



5850.0MHz H+V, Eff: 55.3%



Back View

