

Cavity Back Spiral Antenna

0.5-2GHz

ANTB4-620040-N5

- Low VSWR
- Left Hand Circular Polarization (LHCP) or Right Hand Circular Polarization (RHCP)
- Excellent impedance match and radiation pattern control
- N-type Female Connector

This model is ideally suited for amplitude matching and phase or gain tracking. It is particularly designed for EMC surveillance, direction finding, telemetry, reflector feed and system integration, among other applications.

Throughout its performance, it shows an excellent impedance match and radiation pattern control over the broad operation bands.

Its lightweight and compact design matches its endurance and reliability in harsh and extreme environmental conditions.

This antenna has Left Hand Circular Polarization (LHCP) and is also available in Right Hand Circular Polarization (RHCP).



RF Parameters						
Frequency Range		0.5-2GHz				
Gain		≥-5dB				
Polarization		Left Hand Circular Polarization (LHCP) or Right Hand Circular Polarization (RHCP)				
Axial Ratio		≤3				
3dB Beamwidth	Min Max	65° 125°				
VSWR	Тур.		<2.0			
Input Type		Coaxial	Impedance (Ω)	50		
Operation Temperature Storage Temperature		-55°C∼+75°C -65°C∼+85°C	Size	Ф230mm×230mm (excluded connector)		
Input Connector		N-type Female	Material	Aluminium		
			Location	Indoor		

Note 1: The specification provided is at nominal bias voltage and at 25°C unless otherwise specified.

Note 2: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 3: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.









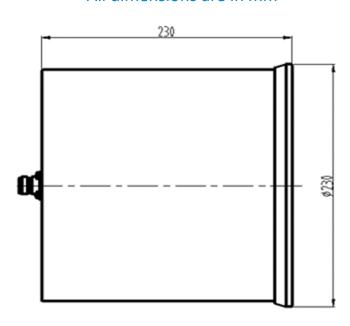








Outline Drawing:All dimensions are in mm



Typical RF Performance

Gain

Frequency (GHz)	Max Gain(dB)
0.5	-4.2
0.8	-1.5
1	0.6
1.2	1.5
1.4	2.7
1.6	3.2
1.8	3.7
2	3.9

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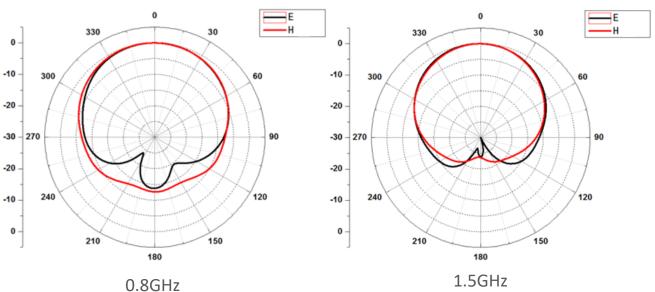




Beamwidth

Frequency (GHz)	E-Plane 3dB Beamwidth	H-Plane 3dB Beamwidth
0.5	118°	123°
0.8	102°	111°
1	78°	79°
1.2	77°	80°
1.4	76°	66°
1.6	79°	88°
1.8	69°	74°
2	72°	68°

Pattern



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