

Chip Antenna

For UWB

KH-8065-A865

8x6.5x2 mm

Applications

1. 7.7-8.2 GHz device
2. CH9 device

Features

1. Compact size
2. Omni-directional radiation
3. Tape & reel automatic mounting
4. RoHS compliance (Pb-Free)

Description

The antenna is designed for superior performance, and can be widely used for wireless applications. We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

Electrical Specification

Table 1. Electrical Specification

Item	SPEC		Unit
Center Frequency	7950±100		MHz
Frequency	7700~8200		MHz
Gain	5.0	90° (30X10 mm GND)	dBi
Return Loss	≤ -10		dB
Polarization	Linear		
Nominal Impedance	50		Ω

• Ta: +25±5°C

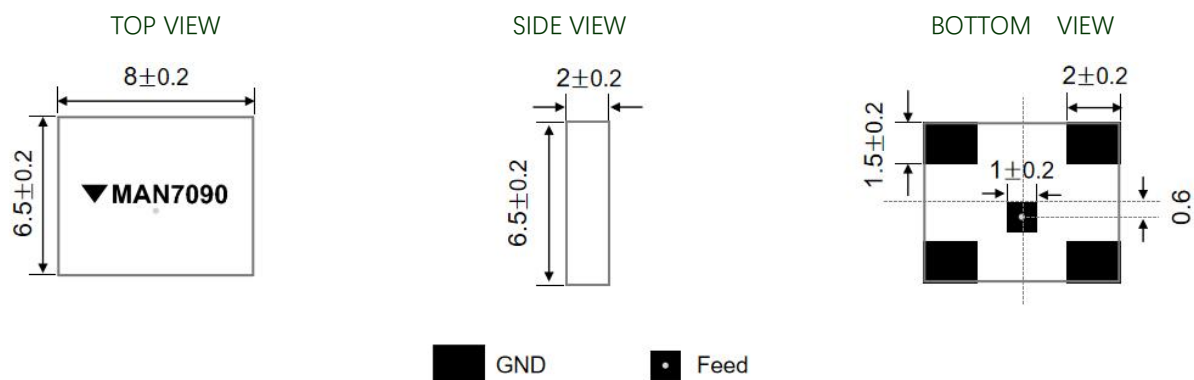
Mechanical Specification

Table 2. Mechanical Specification

Item	Min.	Type	Max.	Unit
Antenna Size		8*6.5*2		Mm
Ground Plane		30*10		Mm
Storage Temperature	-40		+85	°C
Operating temperature	-40		+85	°C

Outline Drawing

Figure 1. View (Unit: mm)



Recommend PCB Layout

Figure 2. PCB Layout (Unit: mm) TOP VIEW

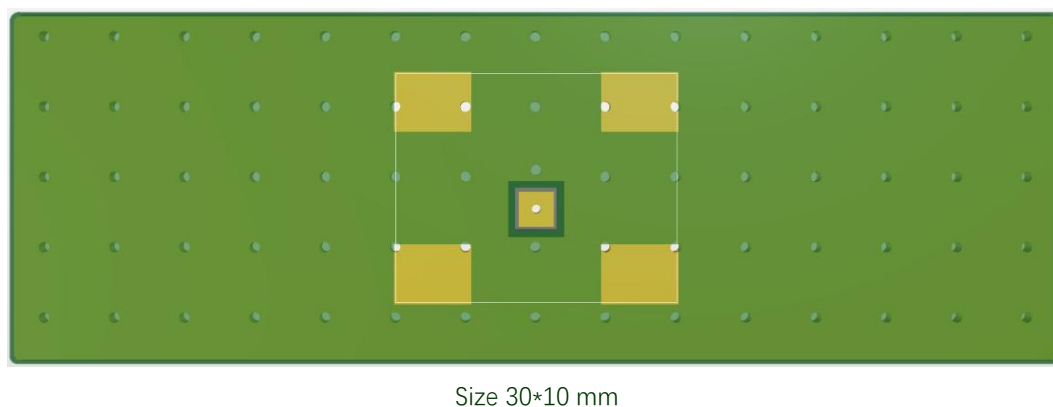
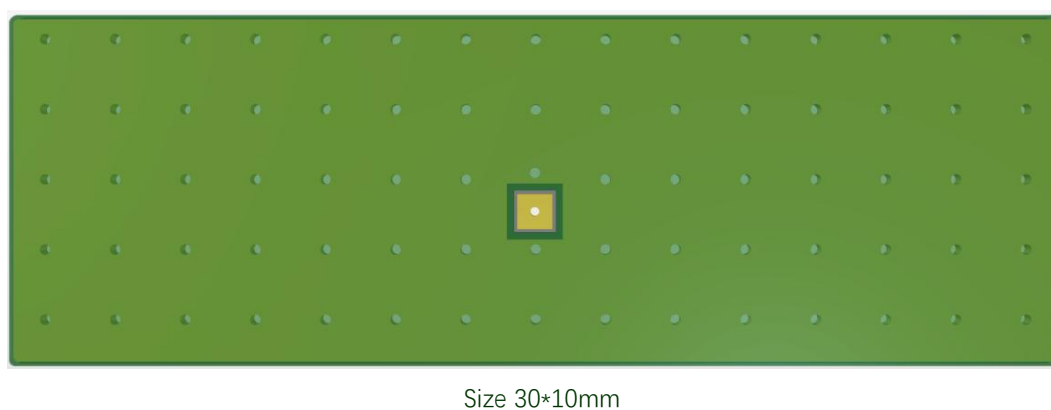


Figure 3. PCB Layout (Unit: mm) BOTTOM VIEW



Typical Performance

Figure 4. VSWR

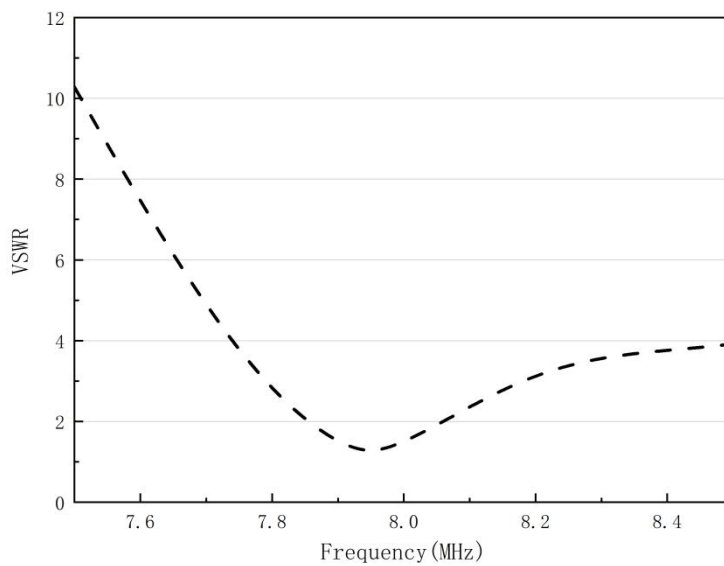


Figure 5. Return Loss

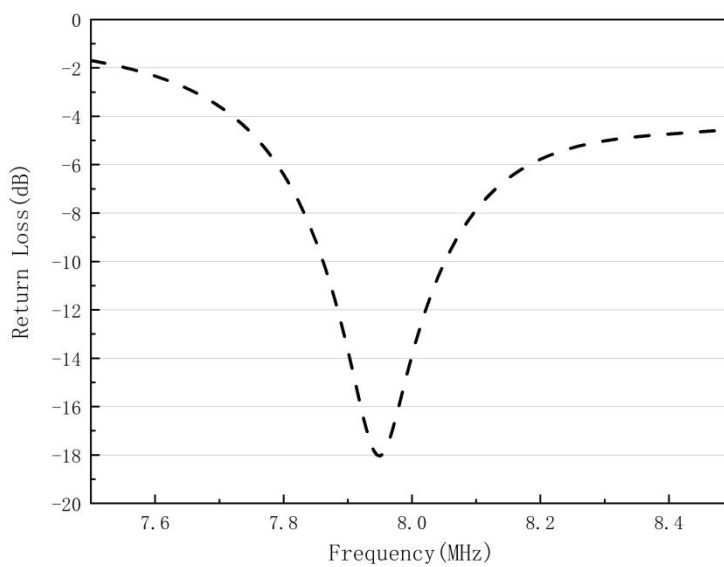
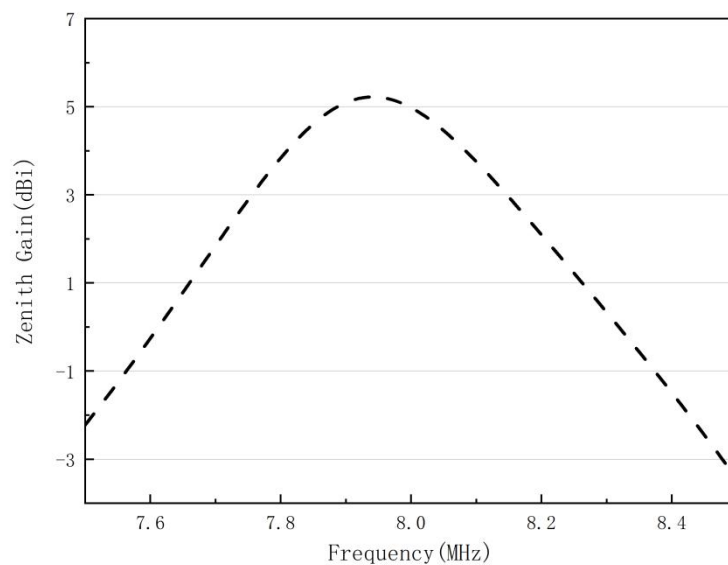
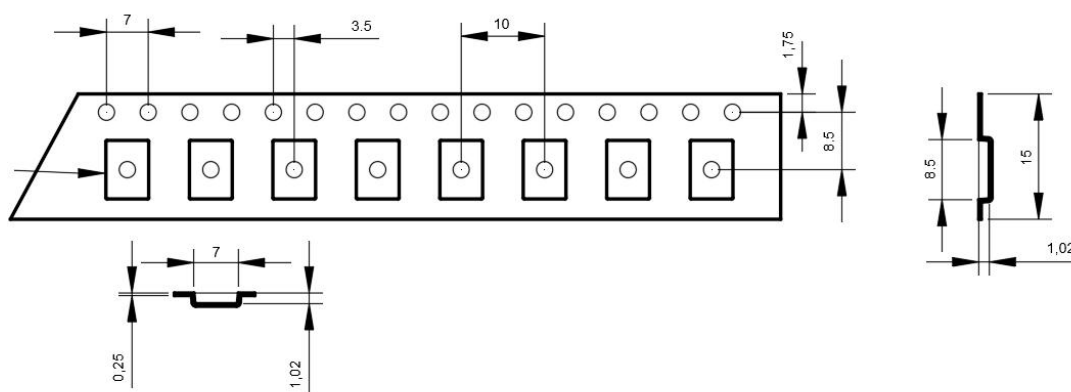


Figure 6. Zenith Gain



Packaging and Ordering Information



Reel Specifications

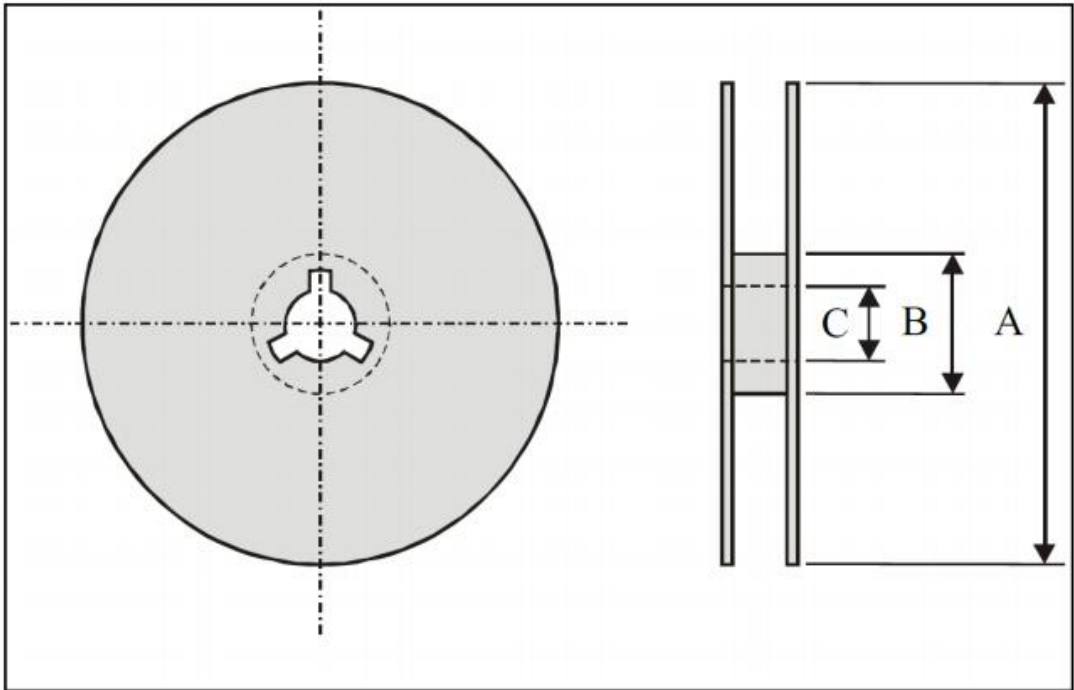


Table 3. Packaging and Shipping

Device	Packaging	Reel	Shipping
	SMD	7"	1000/Reel

Revision	Description	Date
Rev0	Preliminary	2025/8/4