

MAN7090A865

UWB Chip Antenna

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Chip Antenna

For UWB

MAN7090A865

8x6.5x2 mm

All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contain us for future information
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MAN7090A865

UWB Chip Antenna



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. MAN7090A865 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. MAN7090A865 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

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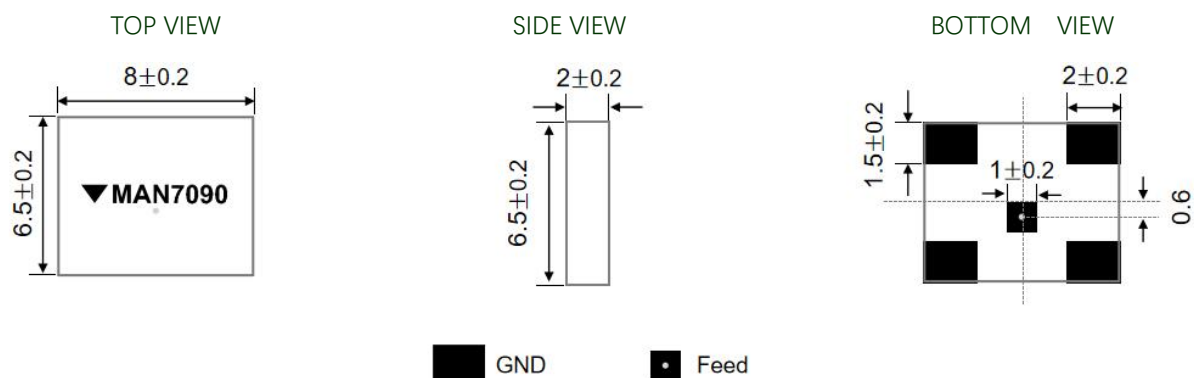


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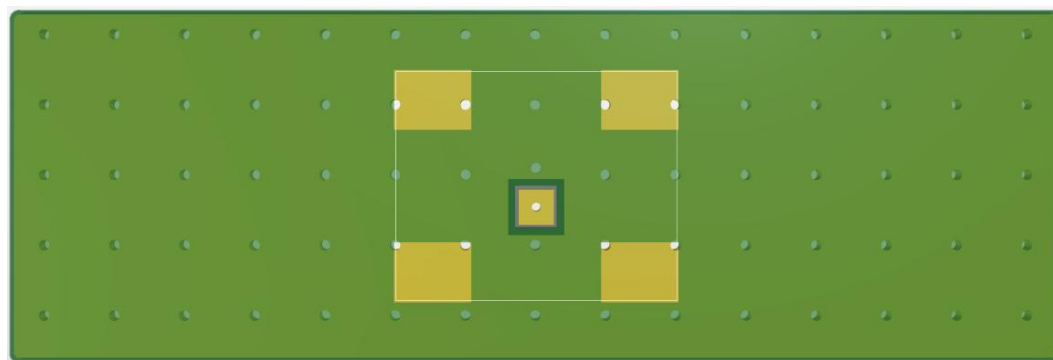
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Figure 1. MAN7090A865 View (Unit: mm)



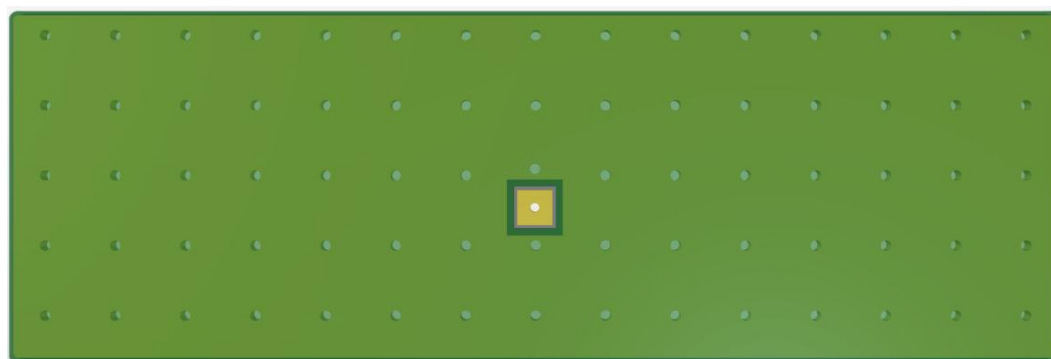
Recommend PCB Layout

Figure 2. MAN7090A865 PCB Layout (Unit: mm) TOP VIEW



Size 30*10 mm

Figure 3. MAN7090A865 PCB Layout (Unit: mm) BOTTOM VIEW



Size 30*10mm

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Typical Performance

Figure 4. MAN7090A865 VSWR

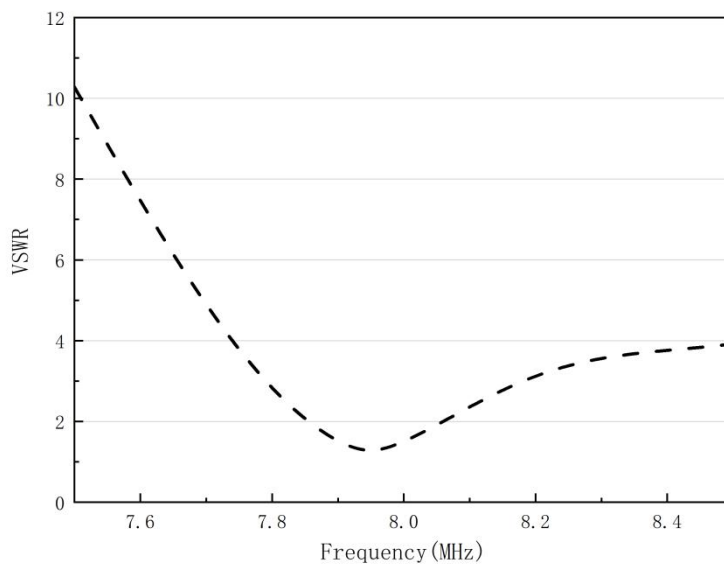
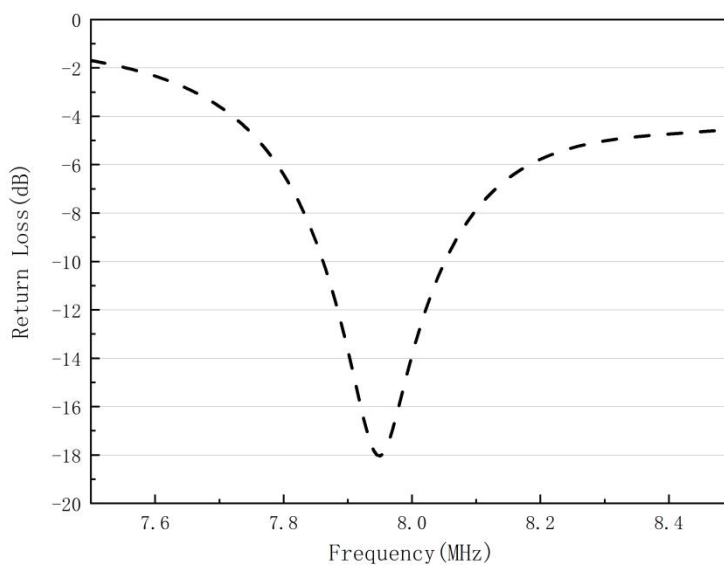


Figure 5. MAN7090A865 Return Loss



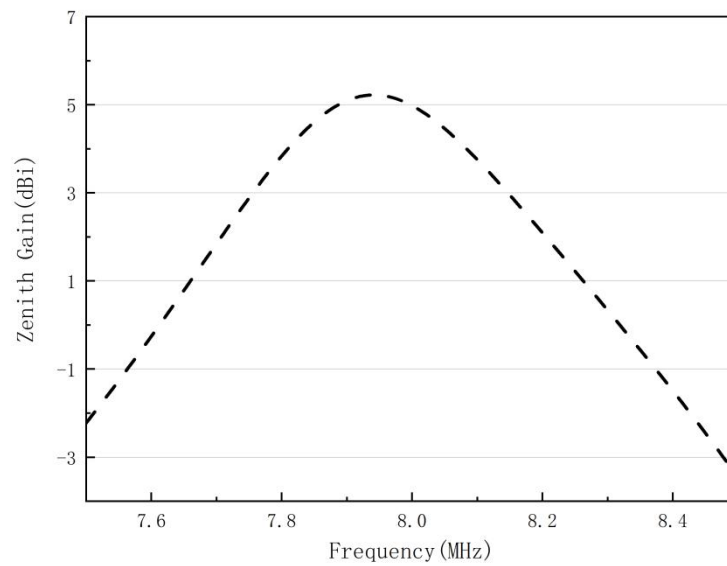
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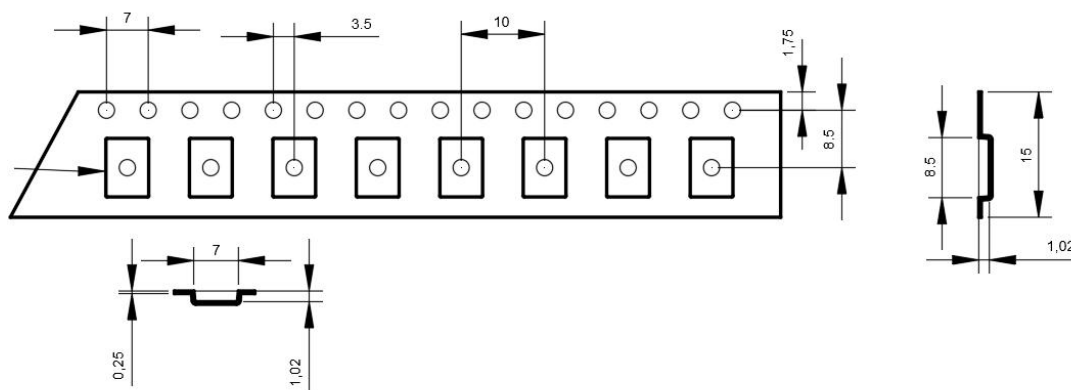
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Figure 6. MAN7090A865 Zenith Gain



Packaging and Ordering Information



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Reel Specifications

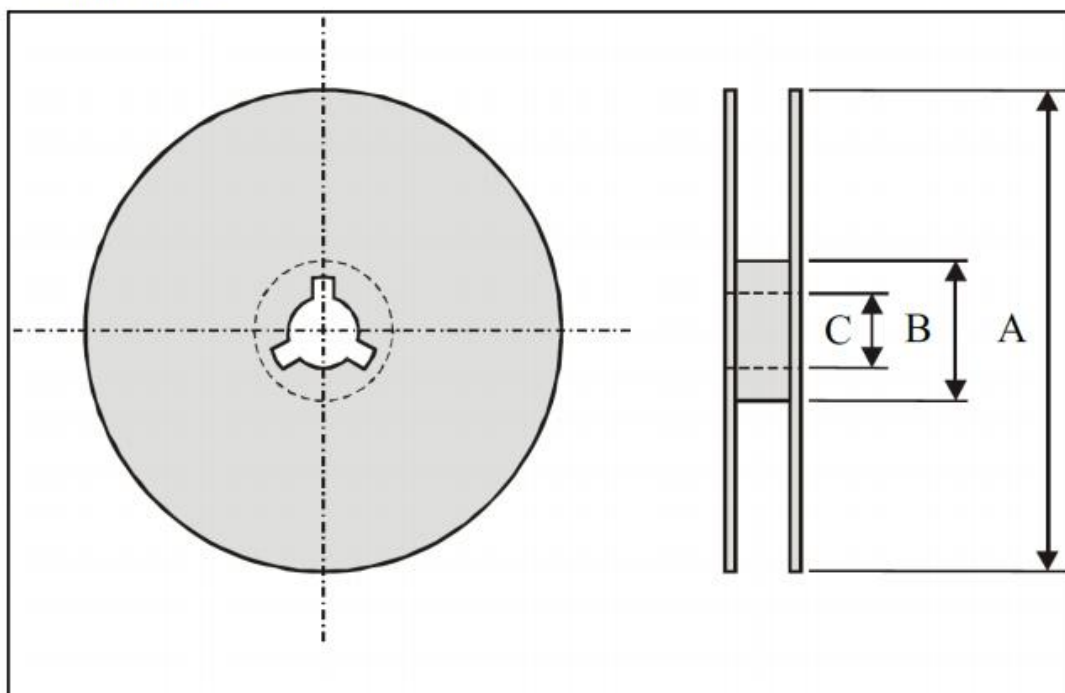


Table 3. Packaging and Shipping

Device	Packaging	Reel	Shipping
MAN7090A865	SMD	7"	1000/Reel

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Revision	Description	Date
Rev0	Preliminary	2025/8/4

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