

RFID Antenna specifications

15c295

1. Product profile

15C295 antenna is a built-in UHF near field antenna, which is suitable for UHF frequency band intelligent manufacturing, station management, embedded equipment and other applications. This product has the characteristics of ultra-thin, small volume, uniform RF field and low standing wave ratio.

2. product picture



3. product features

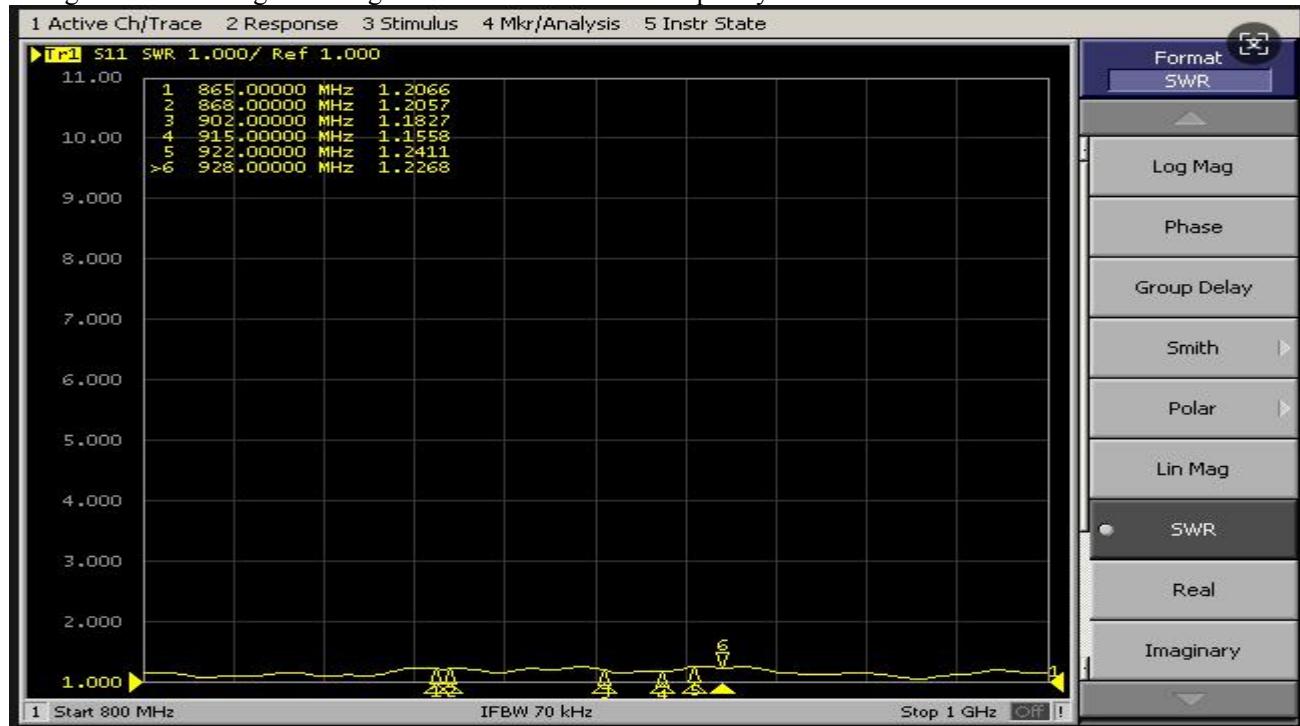
- ❖ High performance: with the characteristics of uniform RF field, low standing wave, etc
- ❖ Reliability: anti-aging, long without fading
- ❖ Application scenarios: intelligent manufacturing, station management, embedded equipment and other applications

4. Product Parameter

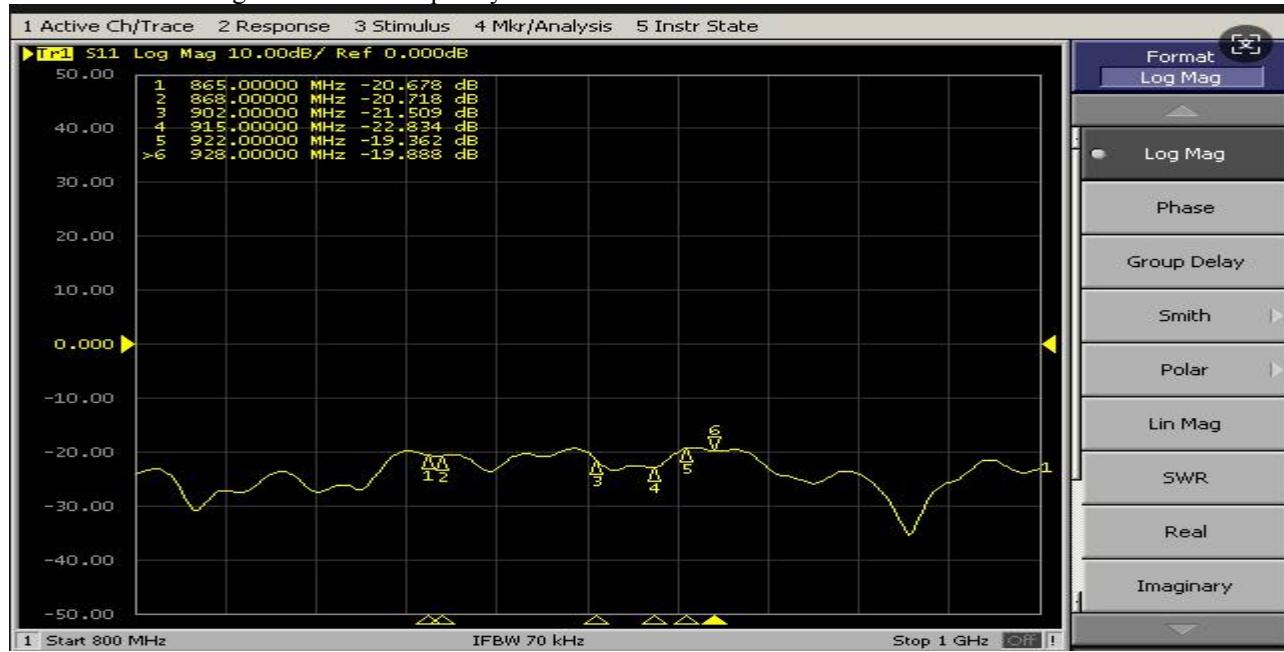
functional parameter	
RFID protocol	EPC Class1 Gen2, ISO18000-6C
frequency	865MHz ~ 868MHz 902MHz ~ 928MHz
Polarization mode	near field
gain (dBi)	-15dBi
impedance (Ω)	50 Ω
Voltage standing-wave ratio (VSWR)	≤ 1.3
Physical parameters	
product size (mm)	295*295*1.0mm
Weight (net weight)	200g
material	PCB
joint categories	MMCX RG316 Line
environmental specification	
working temperature (°C)	-40°C ~ + 85°C

5. Antenna characteristic curve

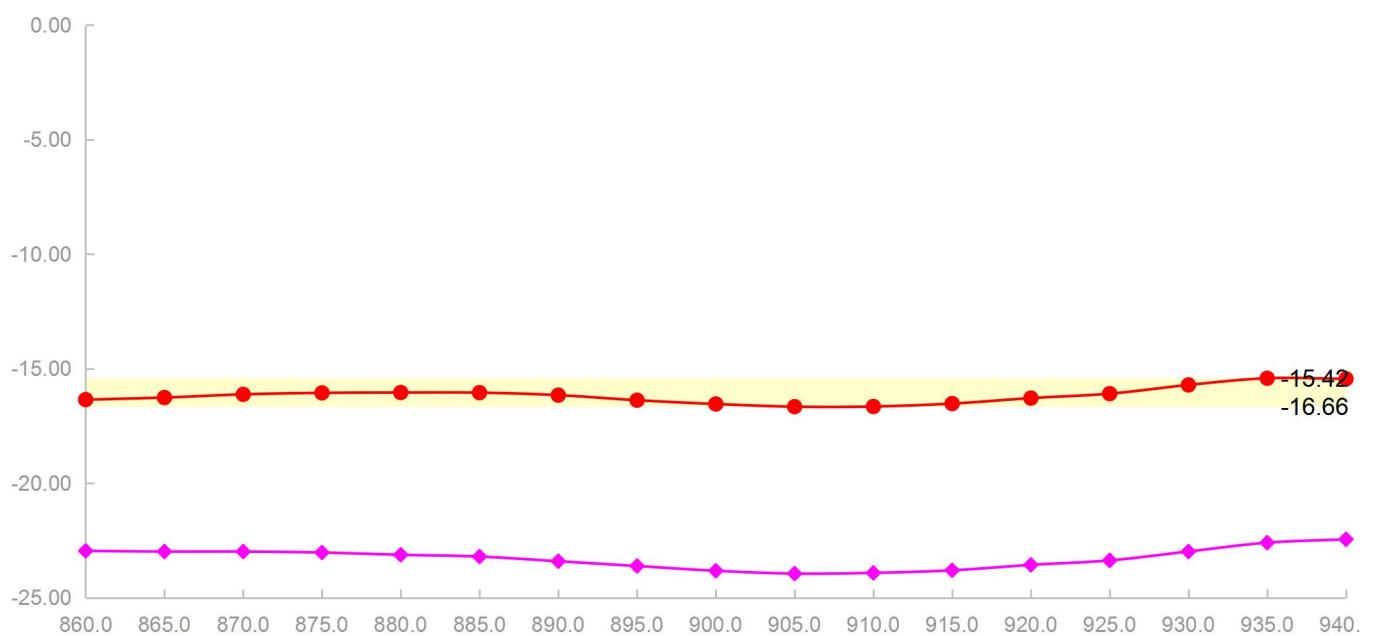
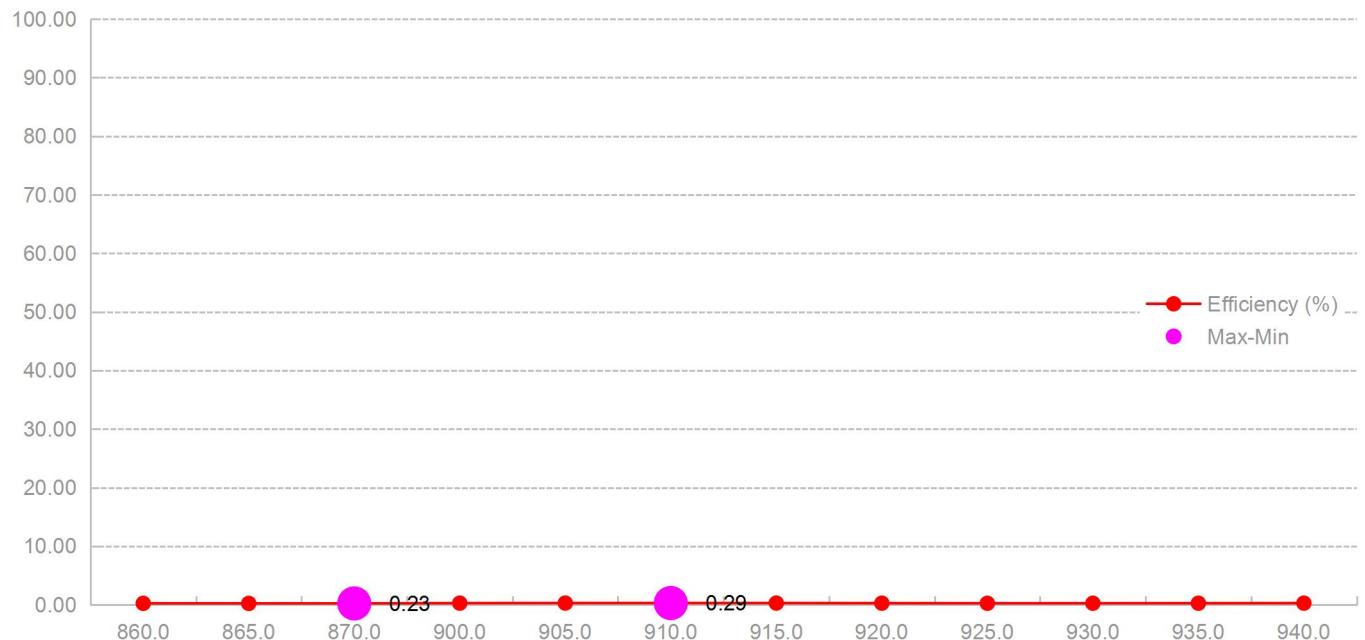
1. Change curve of voltage standing wave ratio VSWR with frequency:



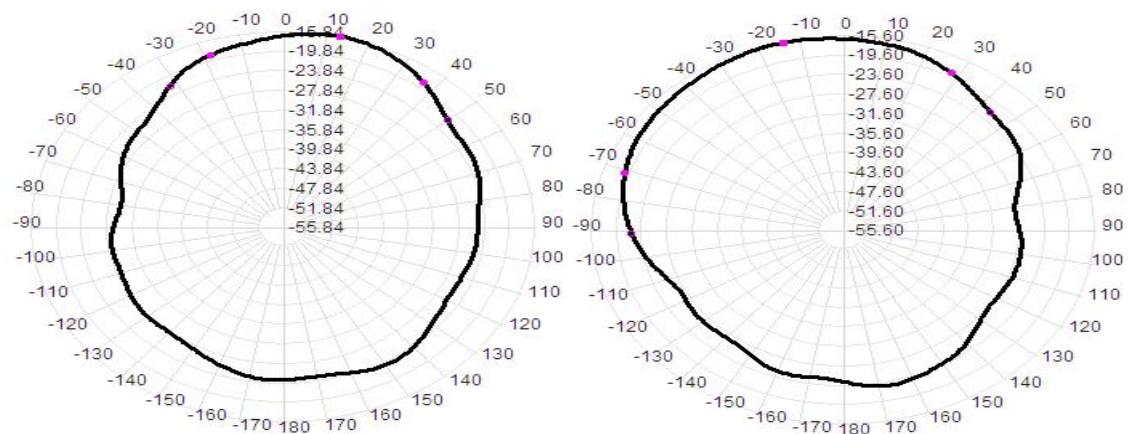
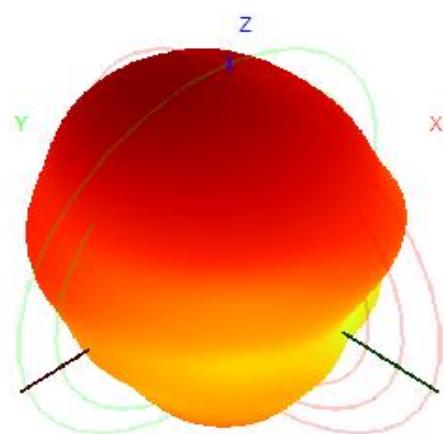
2. Echo loss S11 change curve with frequency:

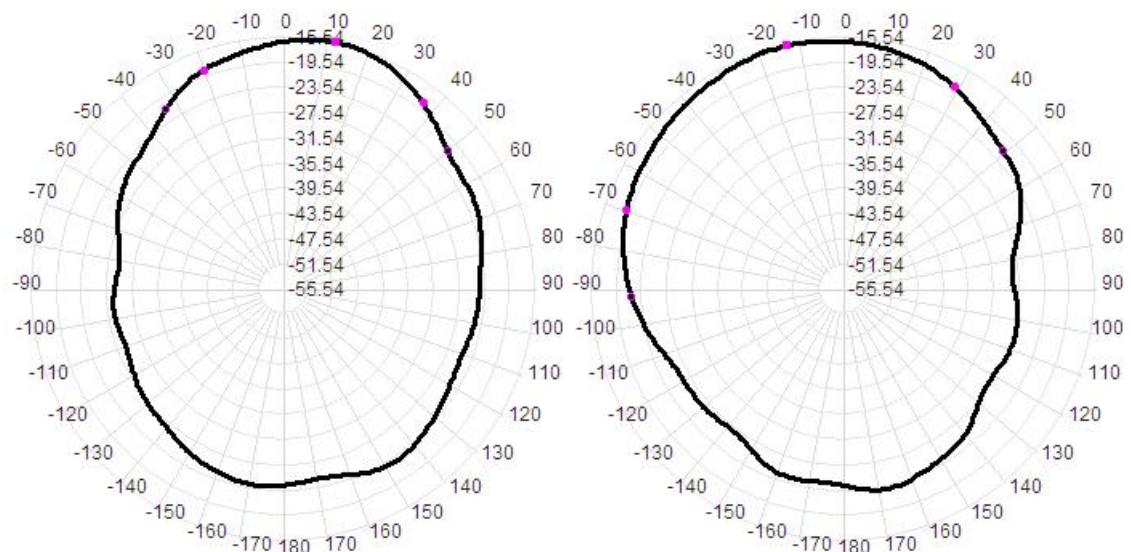
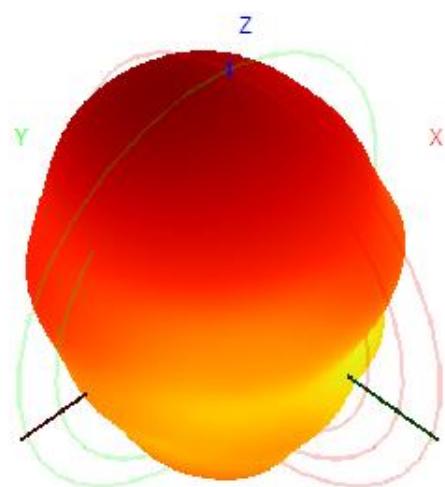


6. Measured antenna characteristic curve in the dark room

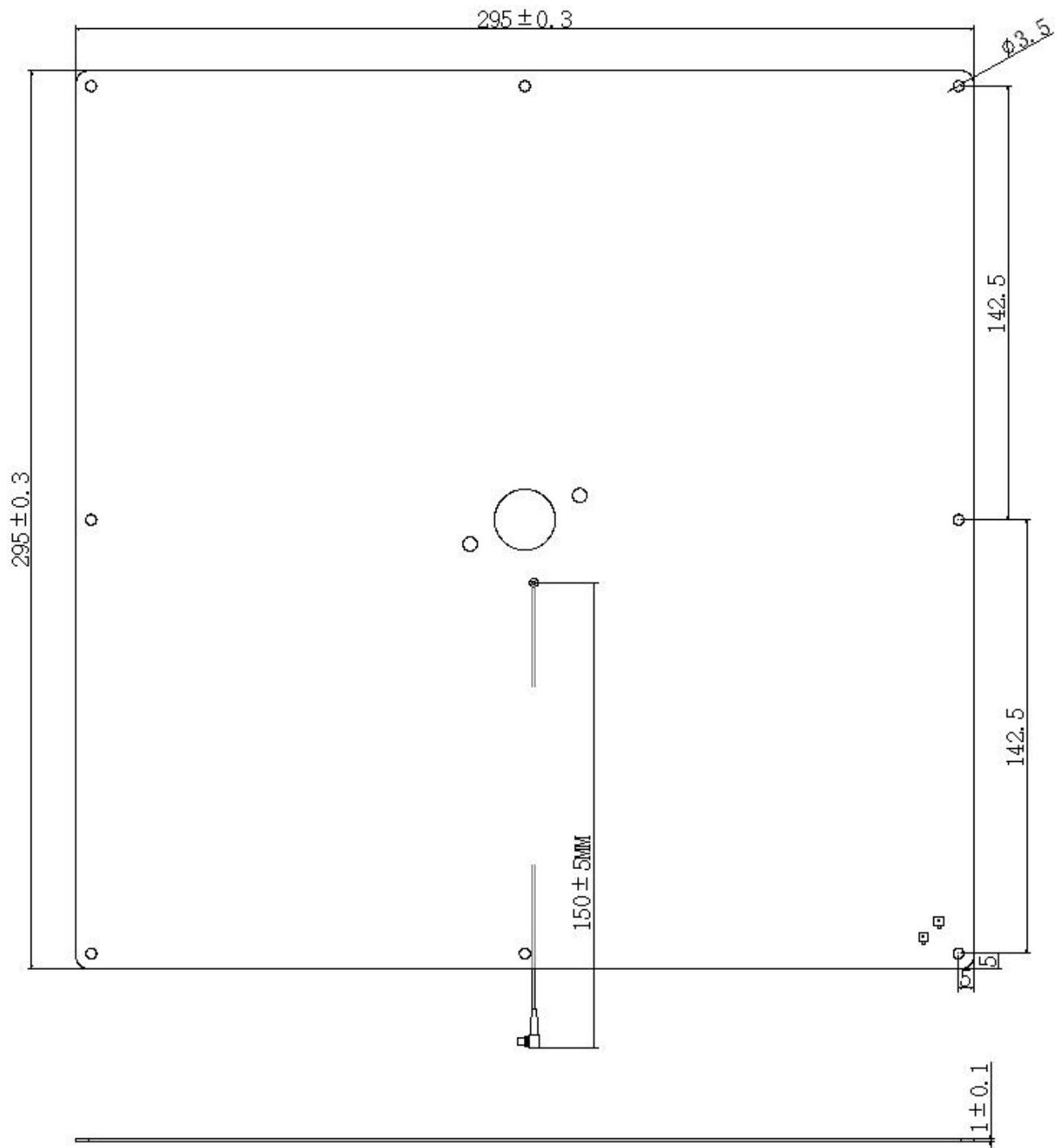


Channel	Gain(dBi)	Efficiency(%)
865	-15.2	0.65
868	-15.86	0.82
902	-15.35	0.73
915	-15.42	0.73
928	-15.52	0.82





7、Size structure diagram



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