

Antenna Specifications

1. Model number: GJRF4001
2. Operating frequency: 433.92MHz
3. Manufacture:

Shenzhen Jinjiexing Technology co., LTD

5th Floor, Building 1, Zhipeng Industrial Zone, Fuyuan 1st Road, Fuhai

Sub-district, Bao'an District, Shenzhen City

4. Electrical performance parameters

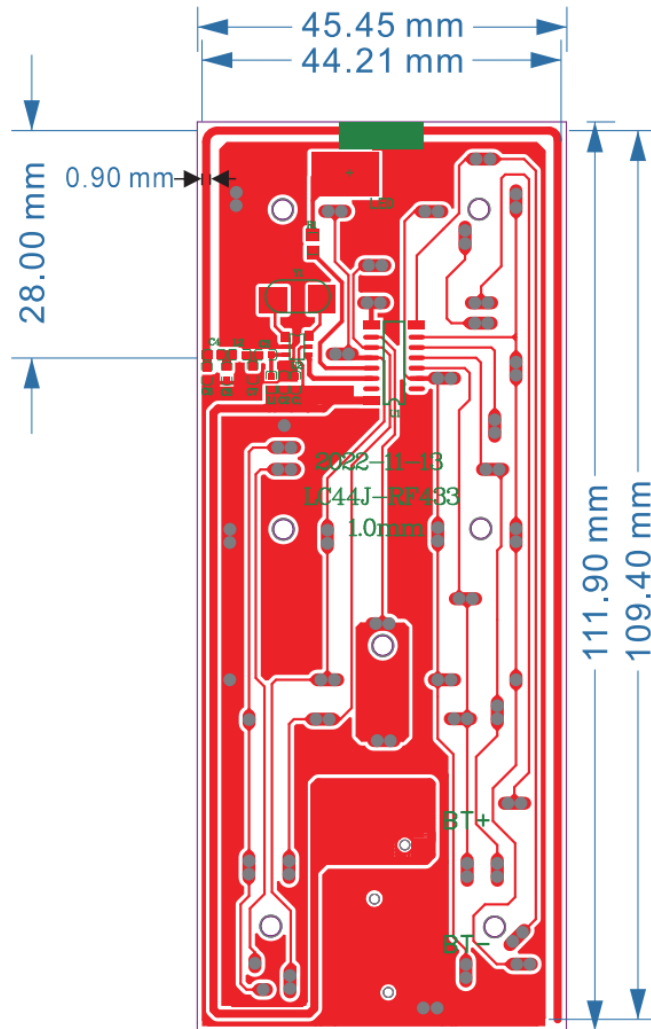
No.	project	Specifications	Test Conditions
1	frequency (MHz)	410~450MHz	anechoic chamber
2	Gain test	$\geq -2\text{dBi}$, $\leq 0\text{dBi}$	anechoic chamber
3	Efficiency test	$\geq 10\%$, $\leq 40\%$	anechoic chamber
4	Center frequency characteristic impedance (Ω)	50,SMA	Network Analyzer

5. Mechanical performance parameters

No.	project	Specifications
1	PCB Size	$115 \times 46.7 \pm 0.3$ (mm)
2	ANT copper wide	0.9 ± 0.15 (mm)
3	ANT copper length	130 ± 0.2 (mm)

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6. Structural dimension drawing (CAD drawing file)



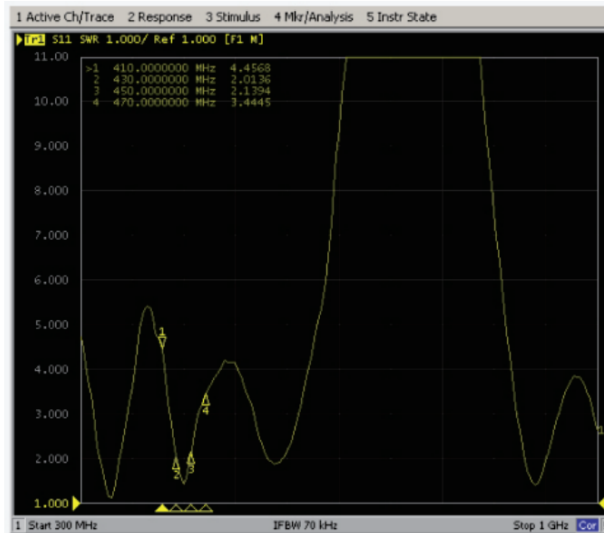
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7. VSWR Parameter

Frequency (MHz)	VSWR
410	4.45
430	2.01
450	2.13

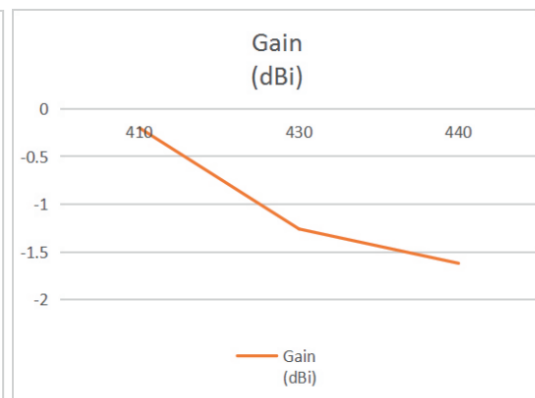
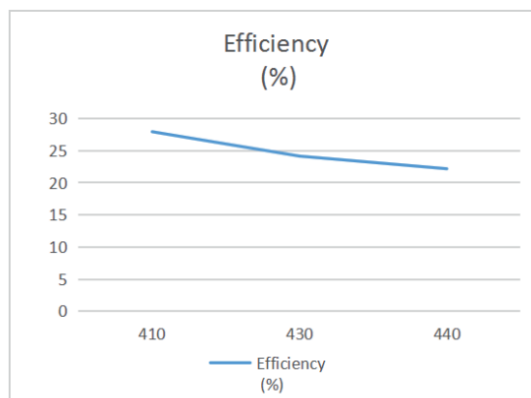
* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)

$$RL = 20 \cdot \log_{10}[(VSWR + 1)/(VSWR - 1)]$$



8. Efficiency and Gain

Frequency (MHz)	410	430	440
Efficiency (%)	27.94	24.14	22.18
Gain (dBi)	-0.2	-1.26	-1.62



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9. Antenna Photo & Length (mm)

Antenna position

