

SPECIFICATION FOR APPROVAL

product name: 433ANT

model: GJRF4001

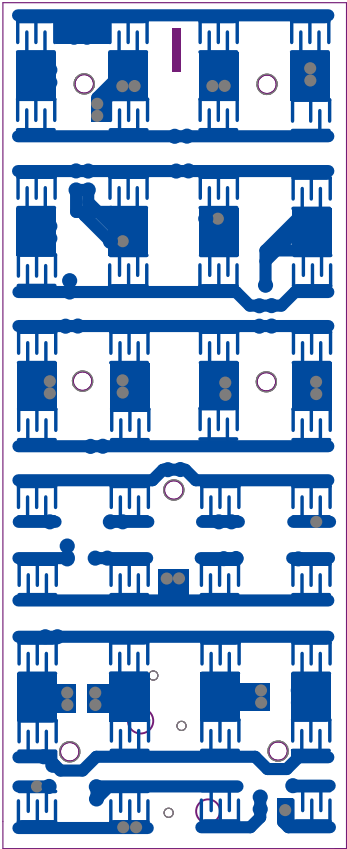
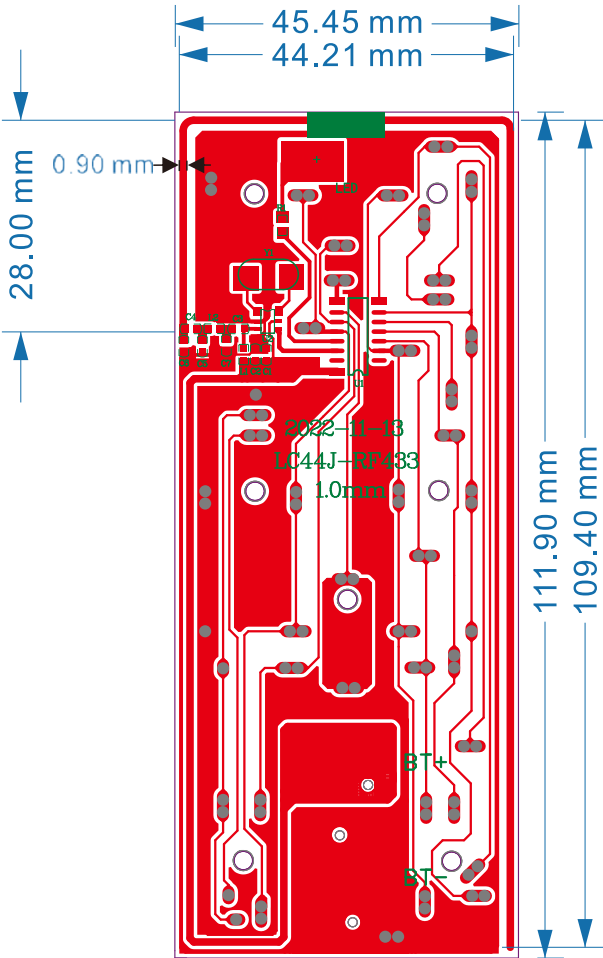
1、Electrical performance parameters

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

2、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)

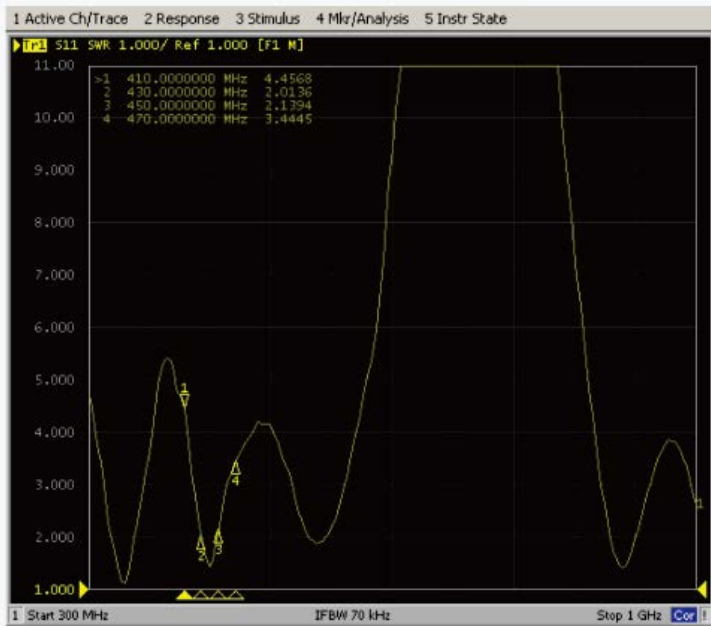
3. Structural dimension drawing (CAD drawing file)



4. VSWR Parameter

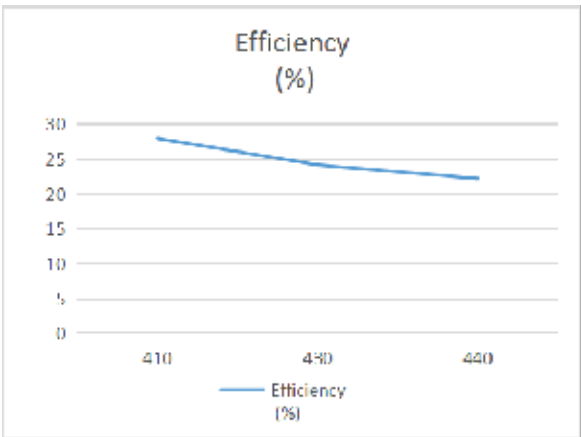
Frequency (MHz)	VSWR
410	4.45
430	2.01
450	2.13

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$

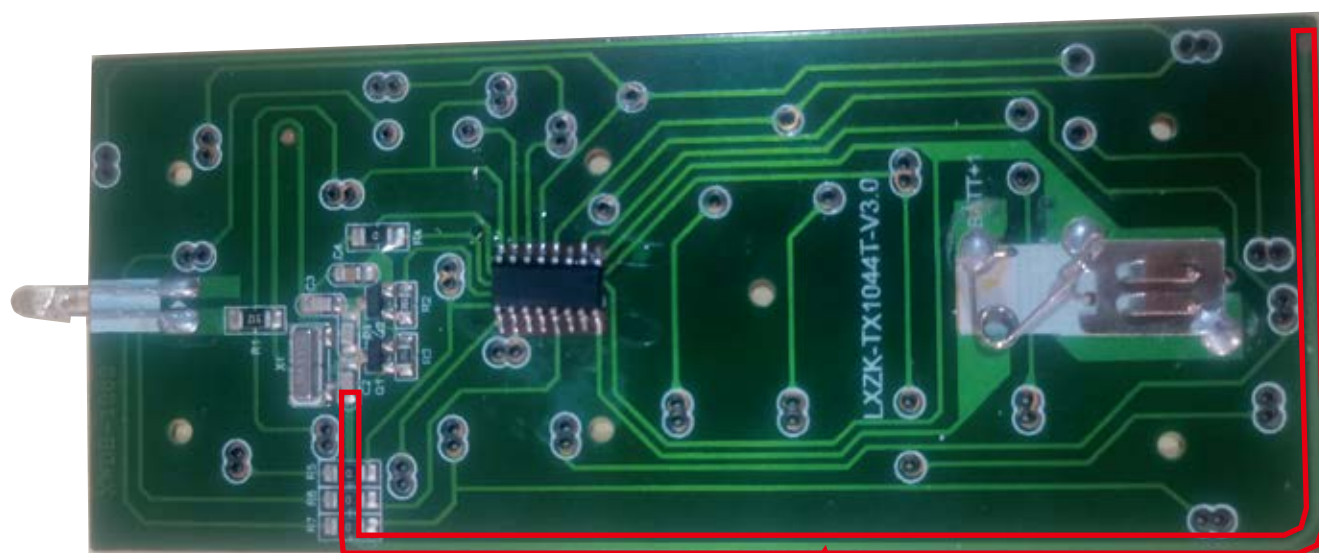


5. Efficiency and Gain

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



6. Antenna installation diagram



Antenna
location