

# Antenna specification

## APPROVAL

manufacturer's name	Shenzhen Horn Audio Co.,Ltd.	frequency band	2400MHZ ~ 2500MHZ
manufacturer's address	No. 6,4th Guihua Road, Pingshan New District, Shenzhen City, Guangdong Province, P.R. China	versions	V1.2
Antenna model number	JX179-16-ANT	colour	Black
antenna size	FPC=L38.9*W4.9mm Cable=L50mm	Antenna PK Gain	2.87dBi
designed By	Yao Hong guang	Day	2023-06-02

# Contents

- \* 1. Overview of antenna parameters
- \* 2. Antenna appearance and dimensions

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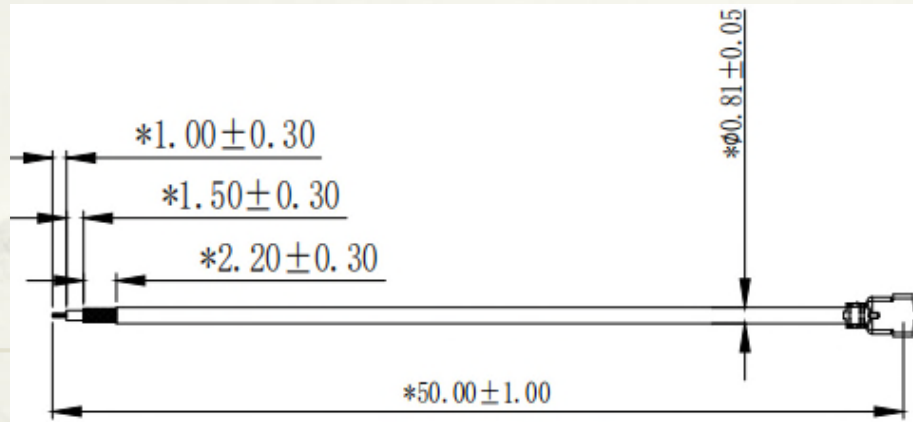
- \* 3. Antenna parameter details
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# 1. Overview of antenna parameters

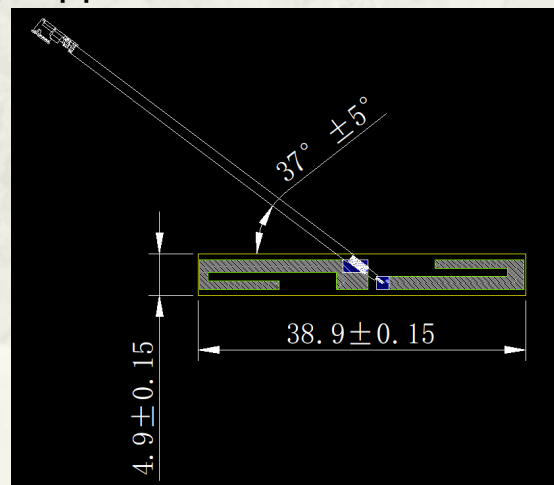
Frequency	2400~2500MHZ
Effi AVG	57.2%
PK Gain	2.87dBi
SWR	<3
Antenna Type	Dipole antenna(FPC+Cable)
PART NO	JX179-16-ANT
Antenna size	FPC=L38.9*W4.9mm Cable=L50mm

## 2. Antenna appearance and dimensions

1. The second generation of the terminal buckle, one end of the cable stripped, appearance dimensions as shown in the following figure (Unit: mm)



2. The finished antenna, appearance dimensions as shown in the following figure (Unit: mm)



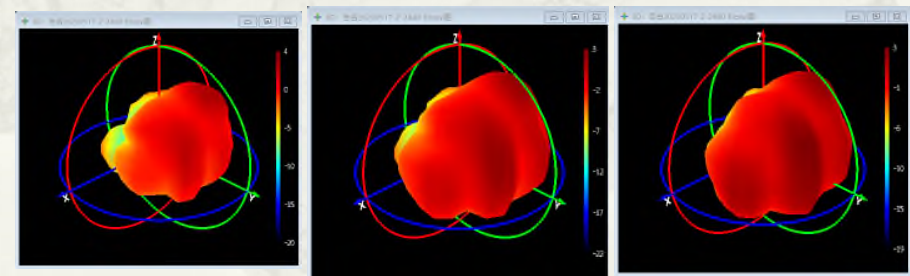
# 3. Antenna parameter details

## 3.1 Free space-Antenna efficiency

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	58.17%	-2.35	2.84
2410	57.94%	-2.37	2.79
2420	58.01%	-2.36	2.79
2430	57.82%	-2.38	2.81
2440	57.43%	-2.41	2.81
2450	57.31%	-2.42	2.85
2460	56.99%	-2.44	2.87
2470	56.11%	-2.51	2.83
2480	54.90%	-2.6	2.71
AVG	57.2%	-2.43	2.81

S11 Parameters

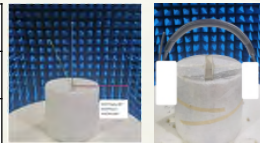
Antenna pattern:



XOY:  $\theta = 90^\circ$

XOZ:  $\phi = 0^\circ$

YOZ:  $\phi = 90^\circ$



antenna position







The End