

APPROVAL SHEET

CUSTOMER NAME:

PRODUCT NAME: PT37-TX-ANT

CUSTOMER P/N: AD-D03

HC P/N:

address:

302, Gao Sheng Building, Center Road 18, Shaqi Community, Xinqiao Street,
Bao'an District, Shenzhen City

Customers	Customers		Letron IoT Technology Co.,Ltd..	
Customer confirmation	Quality	R & D Department	Structure	Approved
Date: Year Month Day	Date: August 21,2025			

1.basic parameters

Product Electrical Performance Index	
Operating frequency range	433MHz
Standing Bobby	433 MHz: < 2.0
Antenna gain	433MHz:- 2dBi ± 0.5dBi
Radiation efficiency	433MHz: > 25%
Impedance	50 ohm
Product material description	
433 springs	Nickel wire
Product environment description	
Operating temperature	- 30°C ~ + 85 °C
Storage temperature	- 30°C ~ + 85 °C

2 description of experimental equipment

List	Testing project	Equipment
1. S Parameters	1.Return loss 2. VSWR at	Network analyzer: Agilent 8753ES
2. Coupling power test	1. Transmission power 2. Receiving sensitivity	Comprehensive tester: Agilent 8960 E5515C
3. Radiation pattern and gain	1. Radiation pattern 2. Antenna gain	1. Darkroom: 7x4x3 m (3D) 2. Network analyzer : Agilent 8753ES

3. Antenna test data

Test data:		
433Mhz		
Freq(MHz)	Efficiency (%)	Gain (dBi)

430	29.65	-1.60
431	30.14	-1.35
432	31.54	-1.70
433	33.62	-1.65
434	34.21	-1.82
435	29.35	-1.47
436	30.15	-1.55
437	30.36	-1.62
438	33.14	-1.25

4.antenna structure drawings

