

Product Specification Acceptance Certificate

Mobile communication terminal antenna

Product Design and Manufacturing

Product Name: PT40-DT61-TX

Customer Name: LECHANG

Customer Part Number: /

customer	customer		Shenzhen Shunyou Electronic Technology Co., Ltd	
Customer confirmation	Quality	R&D Department	Structure	approval
Date: Year Month Day	Date: 2024Year 11Month 5Day			

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1、Purpose

Standardize the specifications and testing methods of mobile communication terminal antenna products produced by Shenzhen Shunyou Electronic Technology Co., Ltd. to avoid errors caused by different testing conditions and methods.

2. Overview of product categories and models

2.1 Overview of Product Models

This report mainly outlines the electrical results of the antenna designed for the PT26S-TX project. This antenna is designed for a frequency band of 433MHz.

3. Basic parameters and experimental equipment description

3.1 Basic Parameters

Product electrical performance indicators	
Working frequency range	433MHz
VSWR	433 MHz: < 2.0
antenna gain	433MHz:- 1.28dBi
Radiation efficiency	433MHz: > 25%
impedance	50 ohm
Product Material Description	
433 spring	Nickel wire
Product Environment Description	
Operating temperature	- 30℃ ~ + 85 ℃
Storage temperature	- 30℃ ~ + 85 ℃

3.2 Experimental Equipment Description

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

4. Antenna test data

Test data:

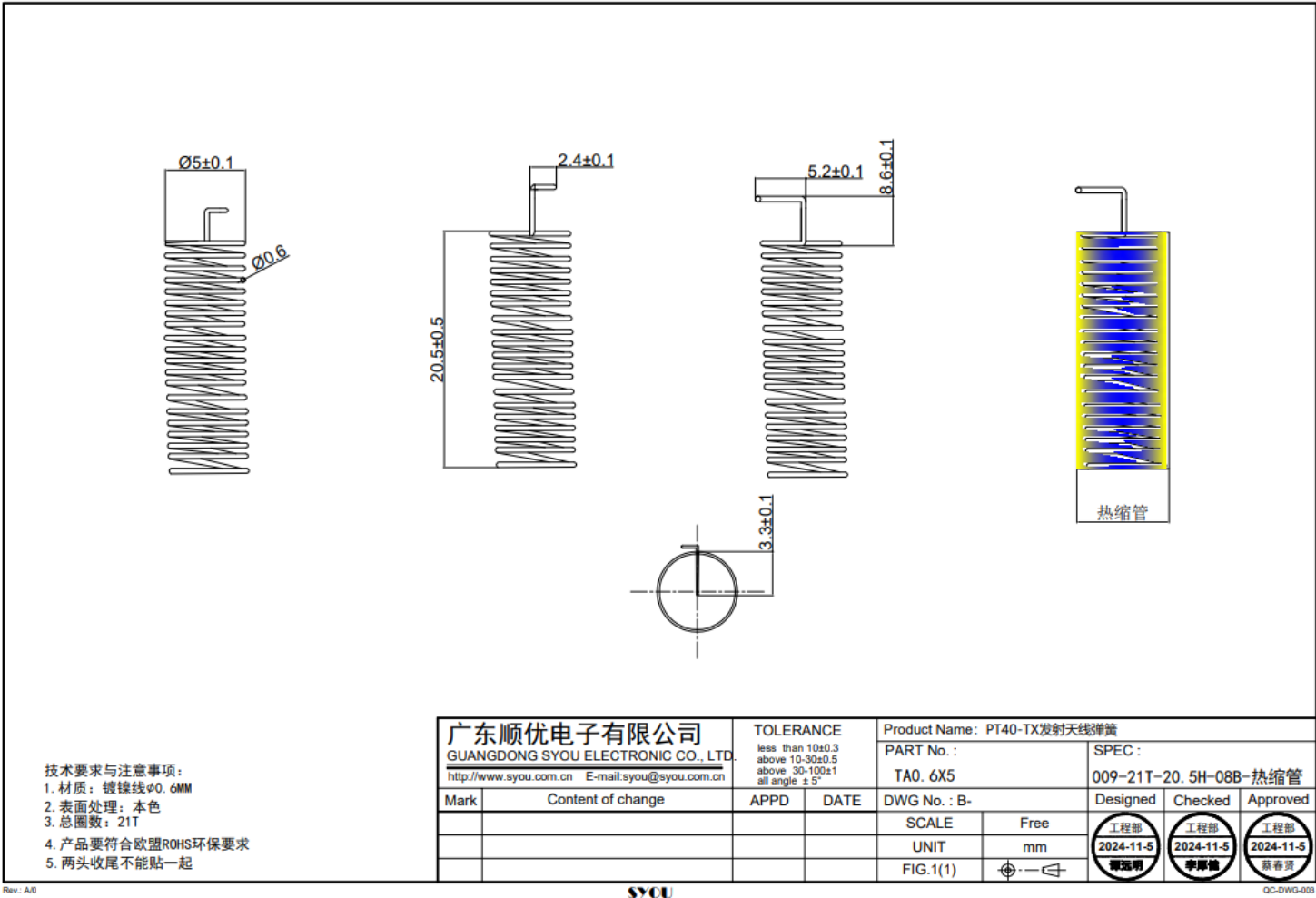
433Mhz

Freq(MHz)	Efficiency (%)	Gain (dBi)
430	30.25	-1.30
431	33.52	-1.85
432	31.51	-1.74
433	32.60	-1.36
434	34.14	-1.28
435	29.65	-1.60
436	28.44	-1.44
437	27.58	-1.60
438	26.31	-1.56

5.1Antenna standing wave ratio



6.1Antenna structure drawing



6.2Antenna installation diagram:

