

SPECIFICATION

Shenzhen Guandetong Electronic Limited



Shenzhen Guandetong Electronic Co., Ltd.

2.4G knife-type FPC Antenna 1.13 Grey Wire Length 100MM with Terminal

Product Specification

Customer		Frequency Band	2400-2500MHz
Project Name		Version	A1
Customer Part No.		GDT Part No.	
GDT Serial No.			
R F Design	XiaoBin	Radio Frequency Manager	Liu Liang
Structure Design	WangDong	Structure Manager	WangHua
Technology Director	ANDY	Date	2024-6-17

Customer Approve:

Assemble whether apply to company request: OK NG

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Security Requirement

The Company has proprietary technology provided by the information, such proprietary information should be strictly confidential, without the prior written consent of Shenzhen Guandetong Electronics Co., Ltd. Is Not allowed to disclose to any person or company.

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一、Product Photo



二、Product Parameter

Product Test Parameter			
Name	2.4G FPC Antenna	Model Type	GDT-DX-2.4G-100
Electrical Specifications			
Frenquency Range	2400-2500MHz	Polarization	Vertical
Impedance	50 Ω	Radiation Direction	All-around
VSWR	≤2	Power	50W
Gain	2dBi	Bandwidth	100MHz
Mechanical Specifications			
Dimensions	36.3*9.09±0.3mm	Antenna Chassis Color	Black
Connector	IPEX(1 代)	Cable Length	100MM
Chassis Material	FPC	Wire Material Specification and Color	1.13 Grey
Working Temperature	-40°C - +85°C	Storage Temperature	-40°C - +85°C

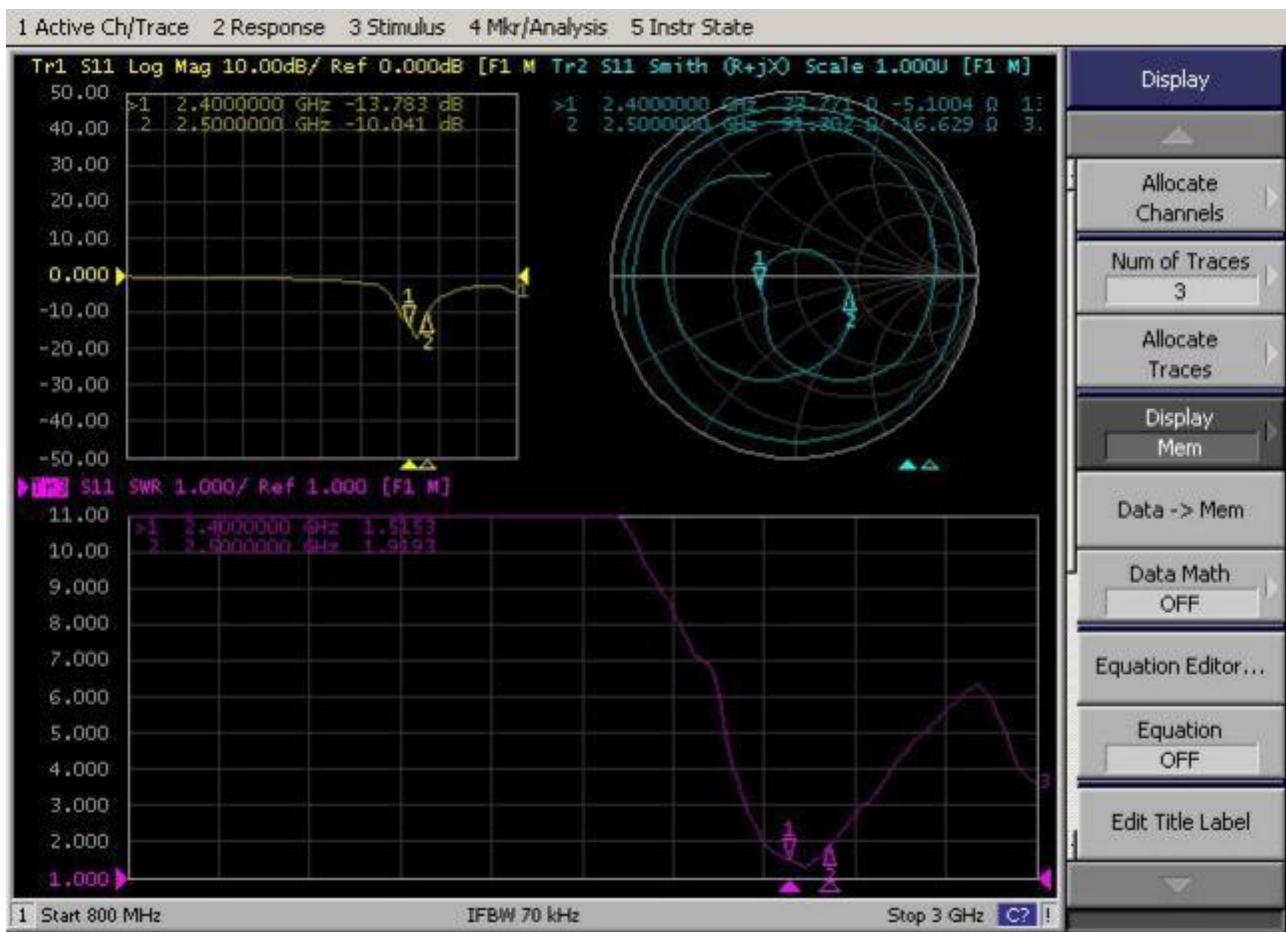
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三、 S11 (VSWR 、 Return loss 、 Smith) Data



四、 Product Structure Diagram

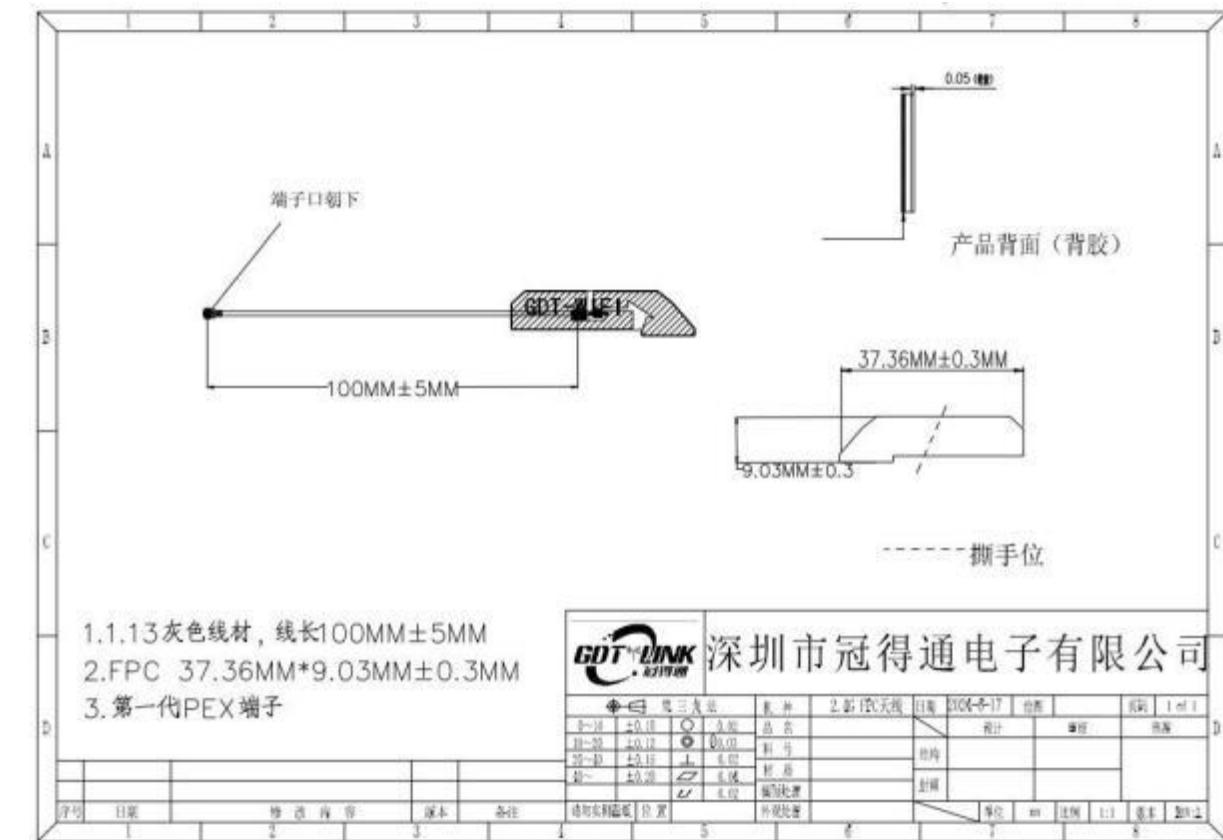
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五、Environmental Reliability Test Report

Project	Test Condition	Specification
Storage and Save Environment	<p>Test temperature, humidity, and air pressure without specifying the following:</p> <ol style="list-style-type: none"> The temperature is $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$. The relative humidity is 45%-85% Air pressure is 86kpa-106kpa 	Electrical and mechanical properties are normal
High and Low Temperature Test	<p>The appearance quality is checked after 5 cycles between 70°C and 40°C, and then 1-2H under normal conditions.</p>	Dimensions shall meet the requirements and shall satisfy Mechanical and electrical properties
Resistance to constant damp	<p>Relative humidity $95 \pm 3\%$, test temperature: 40°C. After 2H continuous action, Test the electrical properties within 5 minutes after the sample is</p>	Dimensions shall meet the requirements and shall satisfy

heat test	taken out, test the sample under the normal strip 1-2H, check the appearance quality	Mechanical and electrical properties
Vibration Test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle: 30 times	Electrical and mechanical properties are normal
Drop Test	Free fall 3 times at 1M altitude in the direction of perpendicular axes	Electrical and mechanical properties are normal

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