

SPECIFICATION

Shenzhen Guandetong Electronic Limited



Shenzhen Guandetong Electronic Co., Ltd.

2.4G Horizontal FPC yellow 1.13 black wire length 70mm with terminal

Product specification sheet

Customer	Shenzhen Anboqi Technology Co., Ltd.	Frequency band	2400-2500MHz
Project name		Edition	A1
RF Design	Xiao Bin	RF Manager	Liu Liang
Structure Design	Wang Dong	Structural Manager	Wang Hua
Technical Director	ANDY	Date	2024-10-7

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<http://www.szgdtrf.com>

1、Product assembly pictures



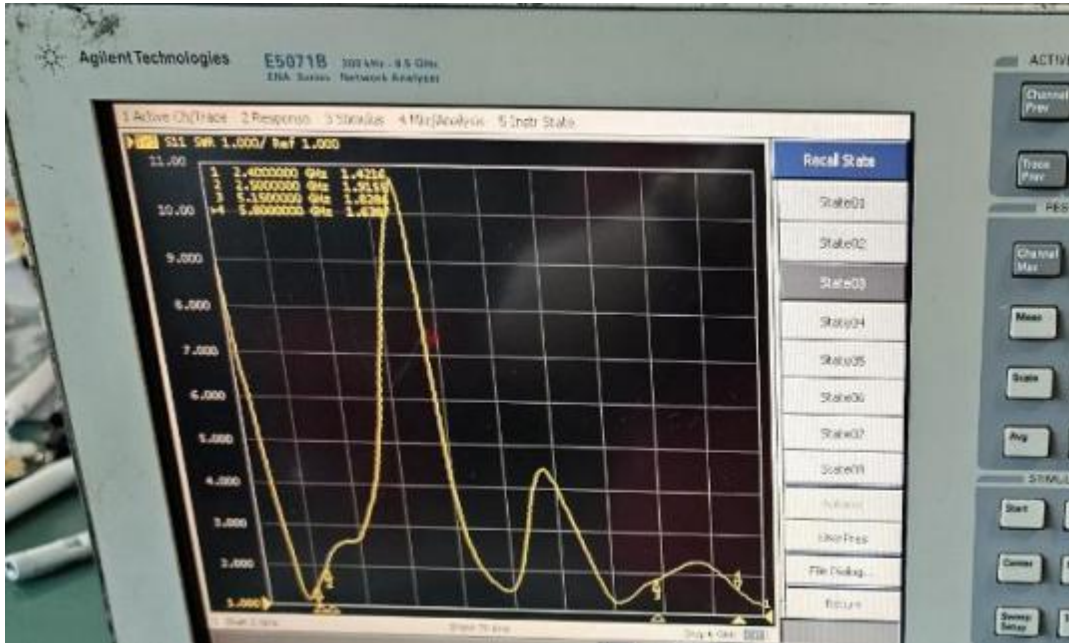
2、Product parameters

Product testing parameters			
Name	2. 4G FPC Antenna	Model Type	GDT-DX-70
Electrical Specifications			
Frenquency Range	2400-2500MHz	Polarization	vertical
Impedance	50 Ω	Radiation direction	Omnidirectional
VSWR	≤ 2	Power capacity	50W
Gain	3.47dBi		
Mechanical Specifications			
Dimensions	32*10 $\pm$ 2mm	Chassis Color	FPC yellow
Connector	IPEX(1 代)	Cable Length	70MM
Chassis Material	FPC	Wire color	1.13 black
Working Temperature	-40 $^{\circ}$ C--+85 $^{\circ}$ C	Limit Temperature	-40 $^{\circ}$ C--+85 $^{\circ}$ C

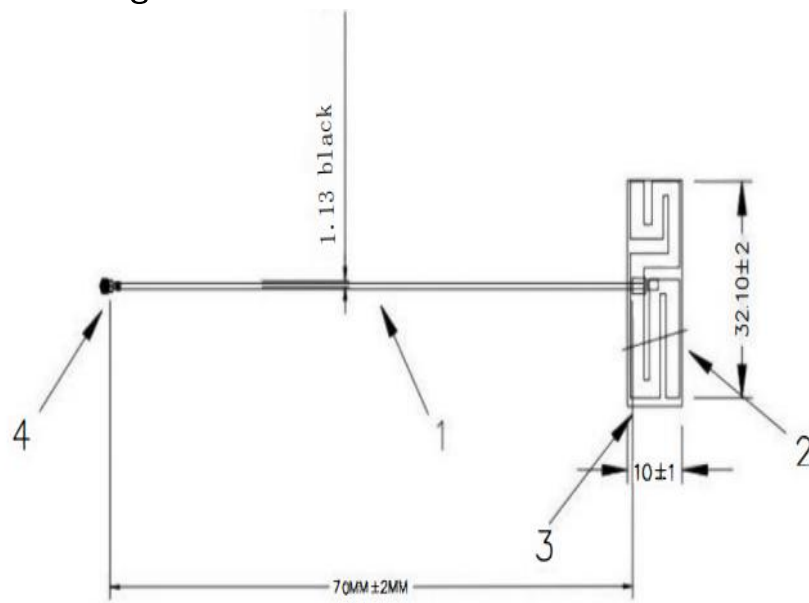
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3、S11 (VSWR 、 Return loss 、 Smith)



4、Structural drawings



1.1.13 Black wire, wire length 70MM ± 2MM

2. FPC length 32MM ± 2MM

3. FPC width 10MM ± 1MM

4. First generation PEX terminal

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5、Antenna gain&efficiency&3D chart

Point ID	(MHz)	(dBm)	(dBi)	y (dBi)	y (%)	y (dB)	(dBm)	Max	Max	(dBm)	Min	Min	(dBm)	(dB)	(dB)	(dB)
1	2400.0	2400.00	2.49	6.78	37.2%	-4.29	2.49	75	60	-95.99	0	0	-4.42	98.48	6.91	-91.57
2	2410.0	2410.00	2.63	6.96	36.9%	-4.33	2.63	75	60	-95.99	0	0	-4.25	98.62	6.88	-91.74
3	2420.0	2420.00	3.03	7.16	38.6%	-4.13	3.03	75	45	-95.99	0	0	-3.82	99.02	6.85	-92.17
4	2430.0	2430.00	3.47	7.25	41.9%	-3.78	3.47	75	45	-95.99	0	0	-3.34	99.46	6.81	-92.65
5	2440.0	2440.00	3.07	7.13	39.3%	-4.06	3.07	75	60	-95.99	0	0	-3.68	99.06	6.75	-92.31
6	2450.0	2450.00	3.16	7.15	39.8%	-4.00	3.16	75	60	-95.99	0	0	-3.64	99.15	6.80	-92.35
7	2460.0	2460.00	3.23	7.15	40.5%	-3.92	3.23	75	60	-95.99	0	0	-3.59	99.22	6.82	-92.40
8	2470.0	2470.00	3.07	6.93	41.1%	-3.86	3.07	75	60	-95.99	0	0	-3.75	99.06	6.82	-92.24
9	2480.0	2480.00	2.71	6.51	41.7%	-3.79	2.71	75	60	-95.99	0	0	-4.09	98.70	6.81	-91.90
10	2490.0	2490.00	2.06	6.25	38.1%	-4.19	2.06	75	45	-95.99	0	0	-4.57	98.05	6.63	-91.42
11	2500.0	2500.00	2.25	6.39	38.5%	-4.14	2.25	90	60	-95.99	0	0	-4.61	98.24	6.86	-91.38

