Shenzhen Yuhong Industrial Co., LTD

Specification of parts

Customer name:	Dongguan Hele Electronics Co., LTD
Product Model:	QT26-R
Risuntek P/N:	
Version:	A0
Prodcut Name:	FPC antenna
Description:	BT2400-FPCB Built-in Bluetooth Headset antenna (QT26-R)
Date:	2023/12/6

(Customer Signatures)

(PM)	(ME)	(QE)

(Our signature)

(QE)	(ME)	(RF)
lily	Cindy	James

Address: 1308, Block A, Zhantao Technology Building, intersection of Minzhi Avenue and Industrial West Road, Longhua New District, Shenzhen
telephone: 0755-21031946
http://www.yuhong-co.com/

catalogue

一、 Prepare/revise the resume

二、 Product drawing

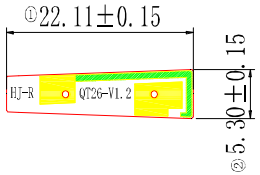
三、 Electrical and mechanical properties

一、Prepare/revise the resume

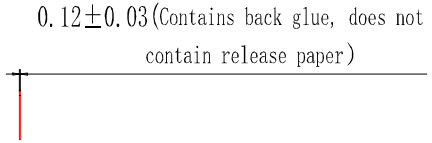
edition	Revision page	Change time	Alteration party	Reason and content of change	remark
A0	—	2023/12/6	Cindy	First version of the antenna form	
A1					
A2					
A3					
A4					
A5					
A6					
A7					
A8					
A9					

二、Product drawing

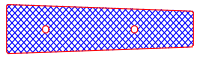
Environmentally friendly RoHS 2.0



Vertical view



End view



Bottom view

NOTES:

1. The green part is ma de of copper; Blank is the base material;
   The yellow part is the gold-plated area; Blue is the adhesive area;
2. The die can not hurt the line, and the gold-plated area should be connected with the line;
3. The surface should not have dirt, scratches, black spots, breakage and falling off after gold plating;
4. Material: FPC single pancl [PI(ED) a pair of half substrate (0.063mm)+ adhesive (3M 9471 0.05mm)+ surface black ink (Youli)(>0.01mm)];
5. The back glue is 3M 9471;
6. Gold finger surface gold-plated (thickness: ≥1u"), no oxidation phenomenon (salt spray test required);
   After 48±1 hours of salt spray test, there were no corrosion points on the surface and the coating fell off;
7. The front screen print is in bright white font. The screen print position and font size are shown in the figure;
8. Mark * as the key dimensions, please check according to standard tolerances if not marked;
9. Meet our ROHS,Reach, halogen-free requirements.

Electrical performance:
1、Test the continuity of the circuit
2、conductivity: 35~58m/(Ω·mm2)

Physical and chemical properties:
1、The golden finger should not have oxidation phenomenon (salt spray test is required)
2、After 48 ± 1 hour of salt spray test, There are no corrosion points on the surface and the coating is not peeling off.

TOLERANCE TABLE			
0~10	±0.10	○	0.02
10~20	±0.12	◎	φ0.03
20~40	±0.15	⊥	0.02
40~50	±0.20	▱	0.04
50~100	±0.25	∠	0.02
UNIT:mm			

APPROVED:	MAO LU PING
CHECHED:	LONG TAO
DRAWING:	ZHANG QING HUA

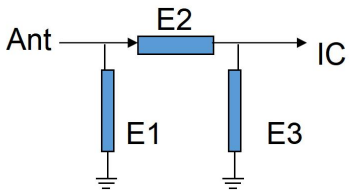
PRODUCT NAME:	FPC		
PRODUCT NUMBER:	QT26-R		
CUTTING TECHNOLOGY:	HALF CUTTING PROCESS		
VERSION	PROPORTION	PAGE SIZE	PAGE NUMBER
V1.2	1:1	By Graph zoom	1/1

深圳市宇鸿实业有限公司
Shenzhen Yuhong Industrial Co., Ltd

Notes: This drawing is issued internally by Shenzhen Yuhong Industrial Co., Ltd
No one is allowed to copy, modify or take away the company without permissio.

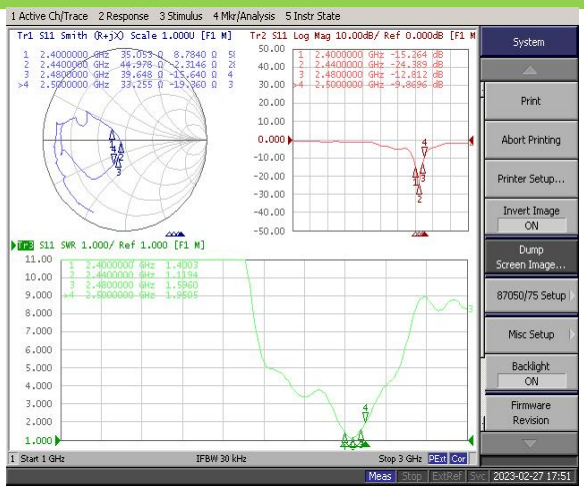
三、Electrical and mechanical properties

1、Match the circuit diagram



Element	Value
E1	N/C
E2	0Ω
E3	1.5PF

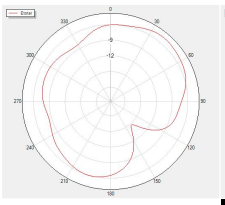
2、S11 Parameters



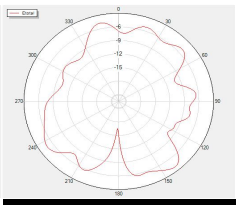
3、Passive efficiency

MHz	Gain (dBi) freedom	Efficiency (%) Freedom
2400	0.97	26.76
2410	1.14	27.61
2420	1.3	28.24
2430	1.41	28.35
2440	1.45	28.13
2450	1.42	27.63
2460	1.32	26.83
2470	1.17	25.97
2480	1.07	25.6
2490	0.97	25.34
2500	0.86	25.06
平均值	1.19	26.87

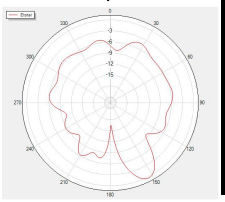
Theta=90 Freq=2440MHz

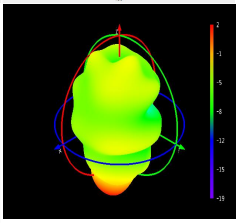


Phi=90 Freq=2440MHz



Phi=0 Freq=2440MHz





4、Active OTA data

R	channel	TRP (dbm)	TRP (dBm)
Free space	0	3.44	-86.67
	39	4.45	-86.67
	78	3.56	-87.52
R	channel	TRP (dbm)	TIS (dbm)
Second generation head die	0	-3.1	-81.05
	39	-2.16	-81.87
	78	-2.95	-81.84