

WAG-P-LTE8-00-003 Specification

1. Explanation of part number :

WAG - **P** - **LTE8** - **00** - **003**
 (1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) FPCB : PCB

(3) Frequency : GSM850/900/1800/1900,W850/900/1900/2100,

LTE B1/3/5/7/8/20/28/38/39/40/41

(4) Coaxial Cable Type : 00

(5) Suffix : 003

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GSM850/900/1800/1900 W850/900/1900/2100 LTE B1/3/5/7/8/20/28/38/39/40/41	703~ 960/1710~2690

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=±0 X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY:张涛 CHECKED BY: 张涛

DESIGNED BY : 徐克文 APPROVED BY : 徐克文

TITLE : WAG-P-LTE8-00-003 Specification



佳邦科技股份有限公司
INPAQ TECHNOLOGY CO., LTD.

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

ENS000091280

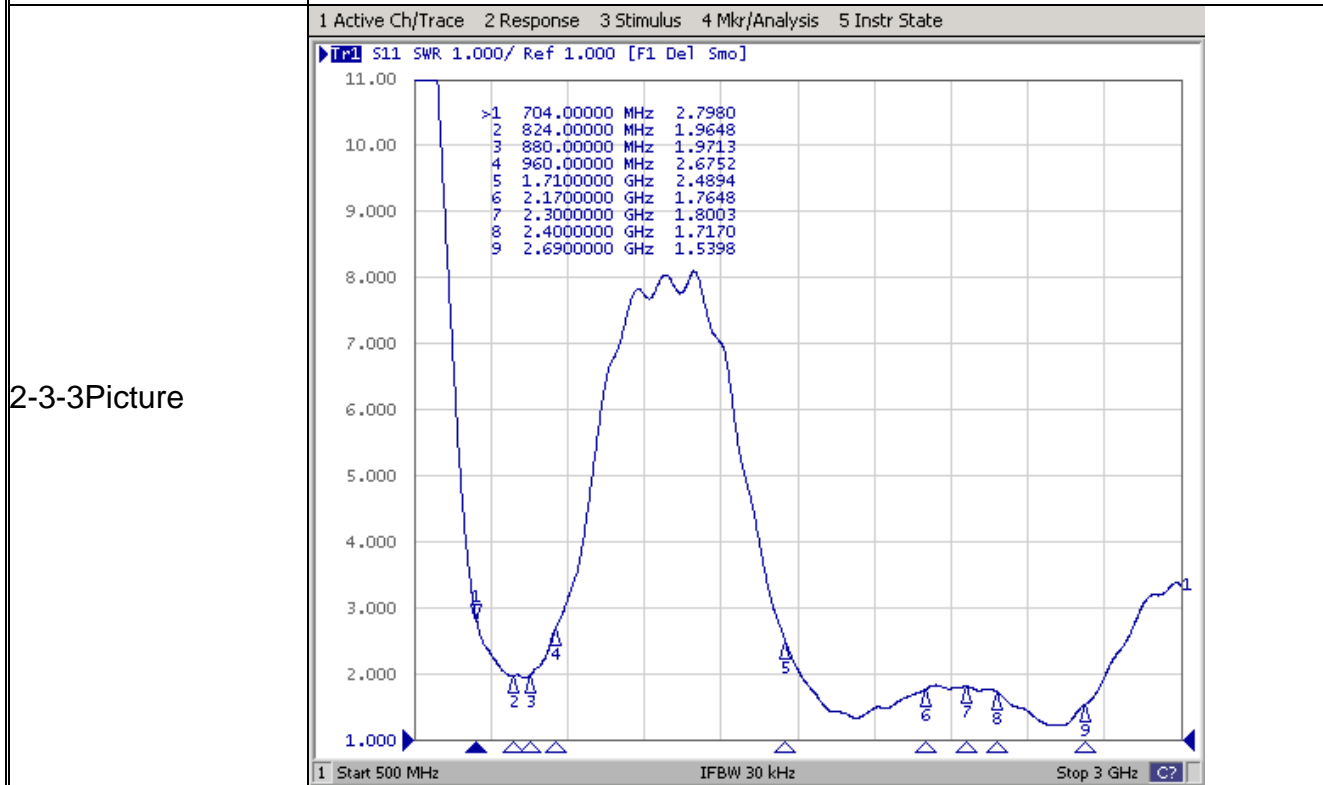
PAGE REV.
P0

2-3. VSWR:

Frequency Band					
	704	960	1710	2170	2690
2-3-1. Typical Value:	≤ 3.4	≤ 3.3	≤ 3.0	≤ 2.5	≤ 2.2

2-3-2 Measuring Method

1. A 50Ω coaxial cable is connected to the PCB. Then this cable is connected to a network analyzer to measure the VSWR.
2. Keeping this jig away from metal at least 20 cm.



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=±0 X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY:张涛 CHECKED BY: 张涛

DESIGNED BY: 徐克文 APPROVED BY: 徐克文

TITLE : WAG-P-LTE8-00-003 Specification



佳邦科技股份有限公司
INPAQ TECHNOLOGY CO., LTD.

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT NO.

ENS000091280

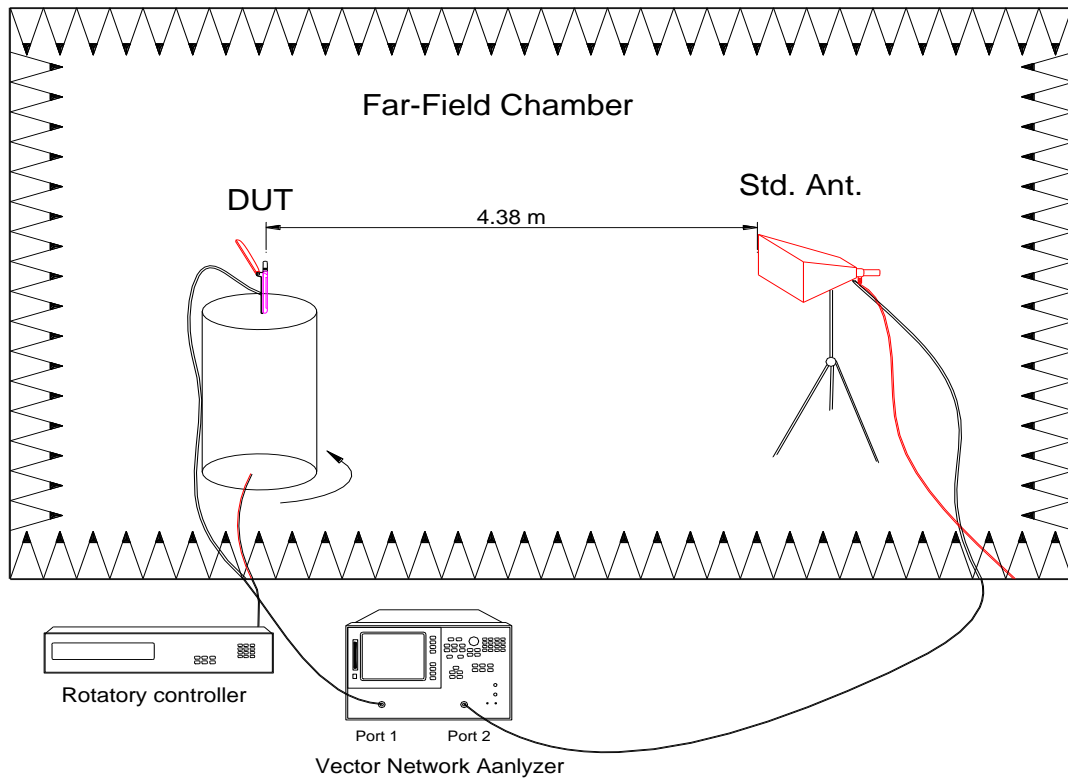
PAGE REV.
P0

2-4. OTA Test Data

2-4.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

2-4.2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=±0 X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY:张涛 CHECKED BY: 张涛

DESIGNED BY: 徐克文 APPROVED BY: 徐克文

TITLE : WAG-P-LTE8-00-003 Specification



佳邦科技股份有限公司
INPAQ TECHNOLOGY CO., LTD.

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

ENS000091280

PAGE REV.
P0

2-4.3 OTA Passtive Test Data

Fre (MHz)	Gain (dBm)	Effi (%)
704	-2.90	51.24
716	-2.53	55.84
734	-2.16	60.80
751	-2.11	61.56
791	-1.97	63.48
806	-1.69	67.70
824	-1.92	64.33
847	-2.19	60.41
880	-2.58	55.16
894	-2.76	52.92
915	-3.03	49.72
960	-3.09	49.06
1710	-2.45	56.90
1805	-2.03	62.70
1850	-1.31	73.96
1880	-1.25	75.00
1900	-1.37	73.01
1920	-1.29	74.23
1990	-1.20	75.79
2010	-1.20	75.89
2110	-2.04	62.56
2170	-2.10	61.65
2300	-1.70	67.55
2400	-1.62	68.82
2496	-1.05	78.49
2500	-0.92	80.90
2570	-0.96	80.19
2595	-1.31	73.90
2620	-1.45	71.63
2690	-2.05	62.44

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=±0 X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY:张涛 CHECKED BY: 张涛

DESIGNED BY : 徐克文 APPROVED BY : 徐克文

TITLE : WAG-P-LTE8-00-003 Specification



佳邦科技股份有限公司
INPAQ TECHNOLOGY CO., LTD.

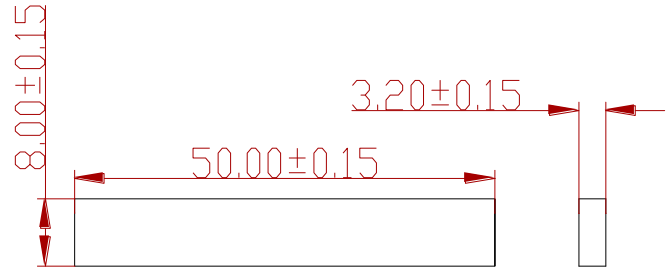
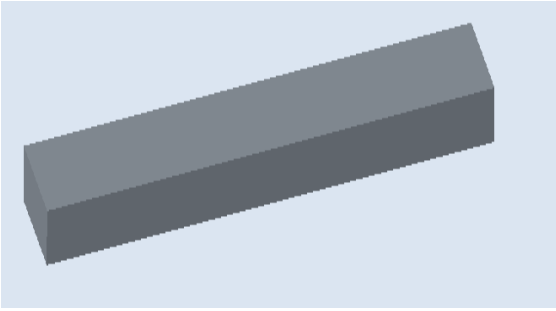
THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

ENS000091280

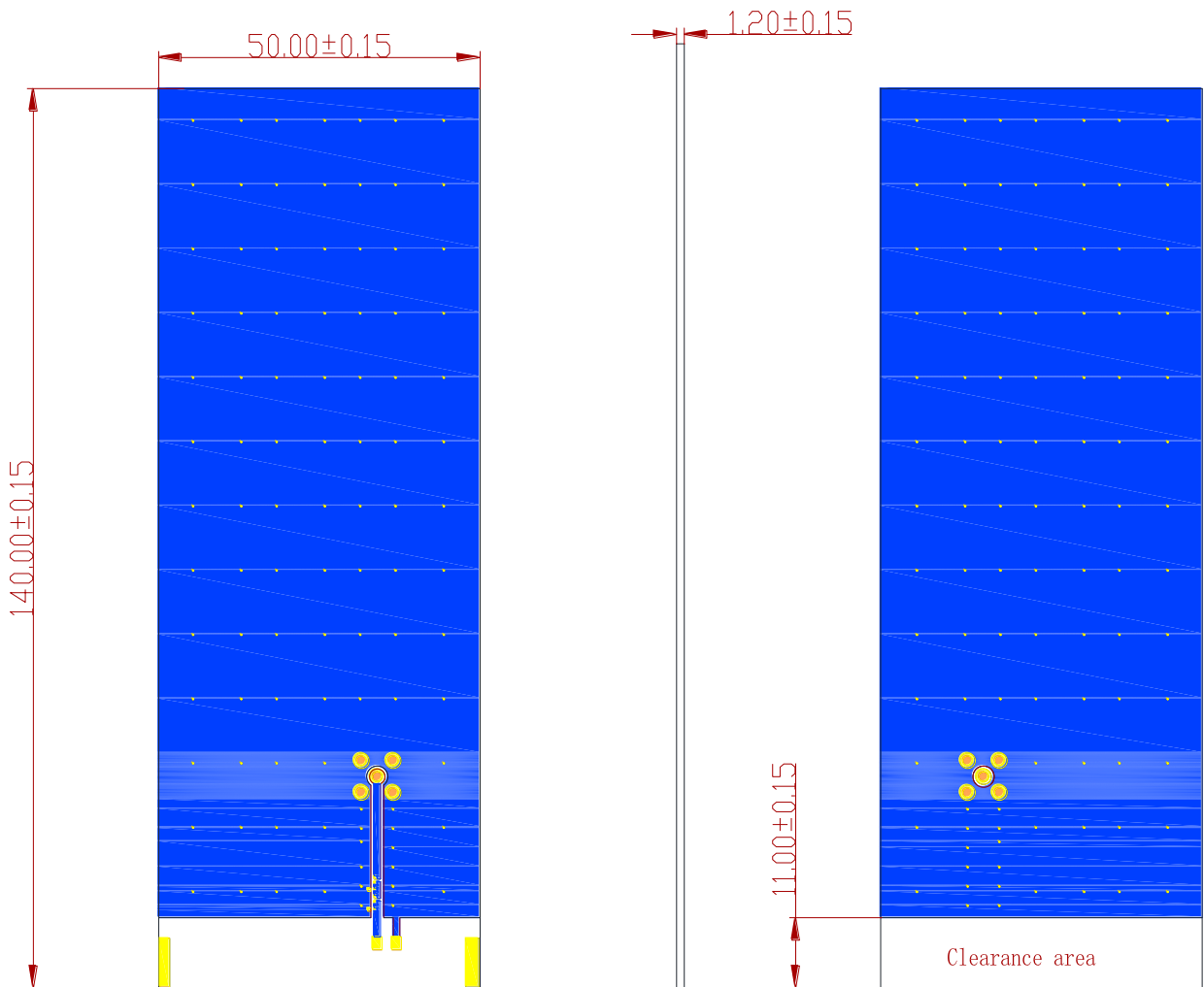
PAGE REV.
P0

3. Antenna Dimensions:(unit:mm)



Antenna

4.PCB Layout:



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=±0 X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY:张涛 CHECKED BY: 张涛

DESIGNED BY : 徐克文 APPROVED BY : 徐克文

TITLE : WAG-P-LTE8-00-003 Specification



佳邦科技股份有限公司
INPAQ TECHNOLOGY CO., LTD.

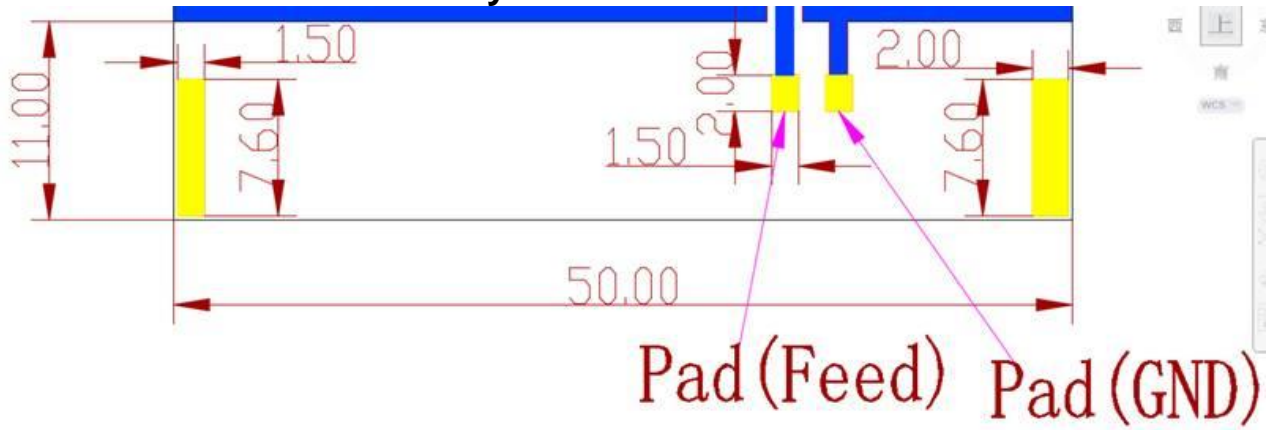
THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT NO.

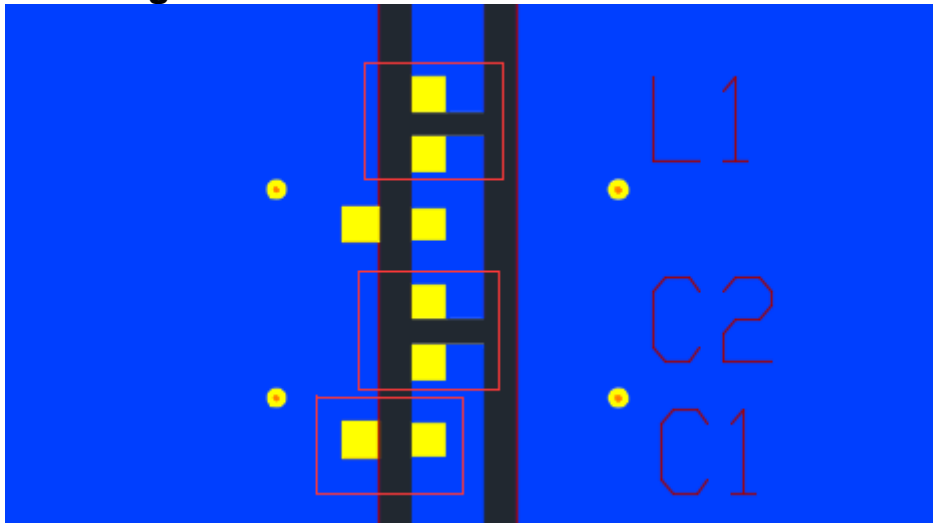
ENS000091280

PAGE REV.
P0

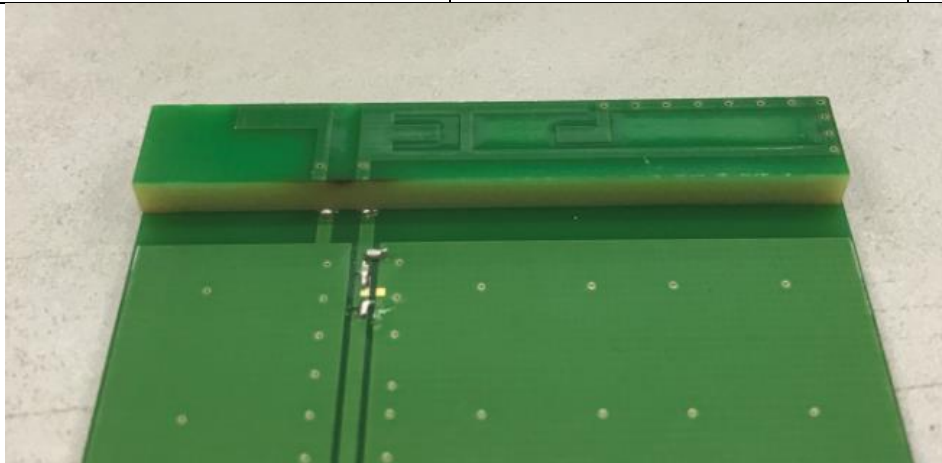
Pad Dimensions on PCB Layout



Matching Circuit on Demoboard



Circuit Symbol	Size	Description
C1	0402	0.5pF
C2	0402	2.0pF
L1	0402	0 Ω



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=±0 X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY:张涛 CHECKED BY: 张涛

DESIGNED BY: 徐克文 APPROVED BY: 徐克文

TITLE : WAG-P-LTE8-00-003 Specification



佳邦科技股份有限公司
INPAQ TECHNOLOGY CO., LTD.

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT NO.

ENS000091280

PAGE REV.
P0