

JIAXING GLEAD ELECTRONICS CO.,LTD.

APPROVAL SHEET

PRODUCT NAME	CUSTOMER APPROVED BY
DAMTA4E10G11_K5M_K5M	
CUSTOMER NAME OR MODEL	APPROVED DATE

SPECIFICATION

Product Name:

DAMTA4E10G11_K5M_K5M

Description:

GPS/GLONASS: 2. 8-5V/12. 5mA/30dB/ L1=5M/ SMBA (FAKRA-C)

GSM:L2=5M/ SMBA (FAKRA-D)

(Typical Value)

VERSION INFORMATION

VERSION	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2012/11/22	NEW ISSUED	闫文力	高生	葛伟平

PREPARED BY	CHECKED BY	APPROVED BY
闫文力	高生	葛伟平



PRODUCT SPECIFICATION

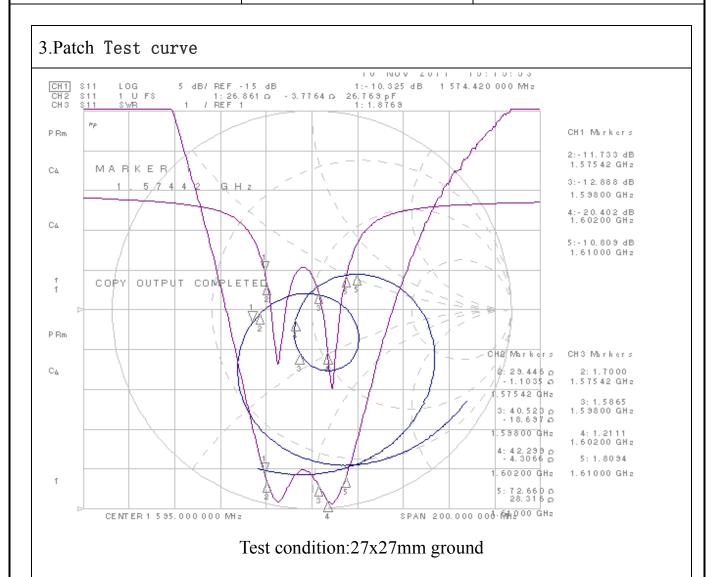
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1.Electrica	1 Characteristics(GPS)	
1.1Antenna		
1	Antenna model	25*25*4
2	Frequency Range	1575.42MHz±5 MHz 1602 MHZ±8MHZ
3	V. S. W. R	1.5:1
4	Band Width	> 10 MHz for GPS > 20MHZ for glonass
5	Impendence	50 ohm
6	Gain	5dBic Based on 7×7cm ground plane
7	Polarization	RHCP
. 2 LNA		
1	Frequency Range	$1595 \mathrm{MHz} \pm 23~\mathrm{MHz}$
2	DC Voltage	2. 8-5. 0V
3	Gain (Typical)	30dB (Without cable +25℃±10℃)
4	Output VSWR (Typical)	2. 0
5	Noise Figure (Typical)	1.4(+25℃±10℃)
6	DC current (Typical)	12.5mA(At3.0V)

2. Electrical Characteristics (GSM)		
1		GSM900:820-960MHZ
	Warding Francisco	GSM1800:1710-1880MHZ
	Working Frequency	GSM1900:1850-1990MHZ
		UMTS:1900-2170MHZ
2	V. S. W. R	2:1
3	Impendence	50 ohm
4		1dbi@900MHZ
	Deal Cala	2dbi@1800MHZ
	Peak Gain	2.5dbi@1900MHZ
		3dbi@2000MHZ
5	Azimuth	Omni-directional
6	Polarization	Linear Polarization



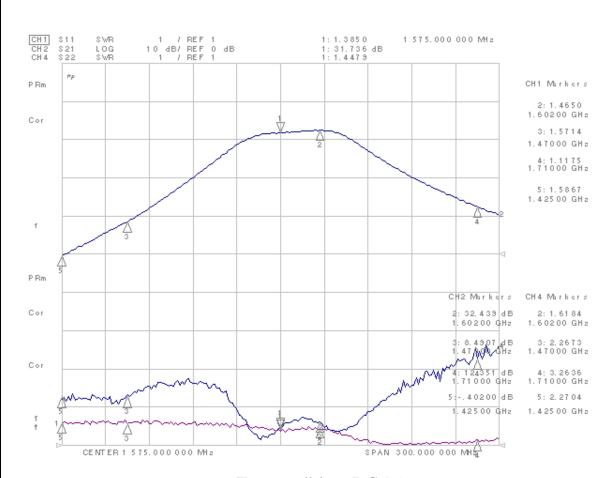
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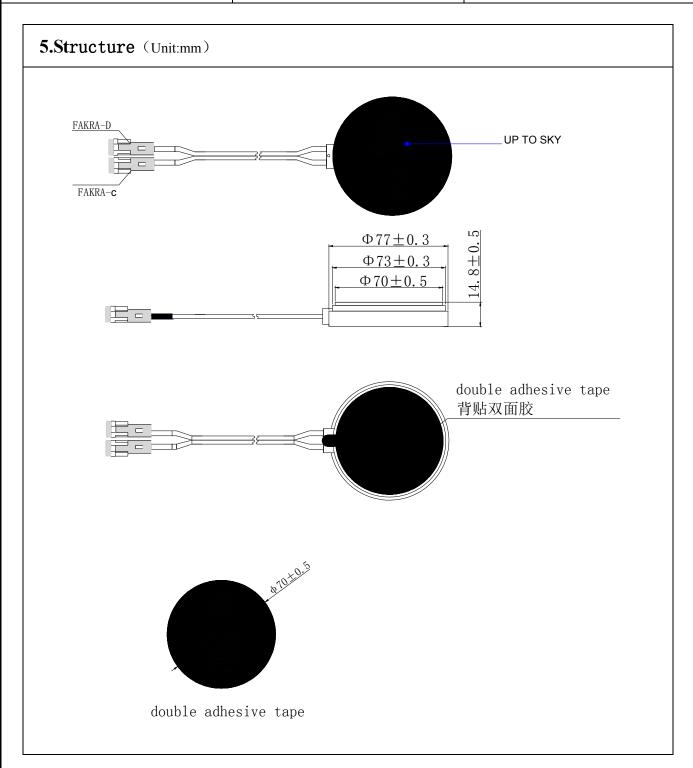
4.LNA Test curve



Test condition: DC 3.0V



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6. Reliability Test

Item	Test Condition	Limit
Humidity Test	The device is subjected to 93±2% relative humidity $40\pm2^{\circ}C\pm3^{\circ}C$ for 48h, then dry out at $25^{\circ}C\pm5^{\circ}C$ and less than 65% relative humidity for 12h.	After test, specimen shall meet electrical requirements
High Temperature Storage	after leaving at 85° C for 16h, provided it would be measured after 2h leaving in 25° C $\pm 5^\circ$ C and less than 65% relative humidity.	After test, specimen shall meet electrical requirements
Low Temperature Storage	After leaving at -40°C for 16 h, provided it would be measured after 2h leaving in 25 °C ± 5 °C and less than 65% relative humidity.	After test, specimen shall meet electrical requirements
High Temperature Operation	Operating the device at 80°C and 3.0V for 2h,	After test, specimen shall meet electrical requirements
Low Temperature Operation	Operating the device at -40°C and 3.0V for 2h,	After test, specimen shall meet electrical requirements
Vibration	Subject the device to Sinusoidal vibration for 2h each in x, y and z axis with the amplitude of 1.5mm (max), the frequency shall be varied uniformly between the limits of 10Hz~55Hz~10Hz.	After test, specimen shall meet electrical requirements
Free Fall	Handling the product at the 1000mm dropped 3 times with random fall surface,	Mechanical damage such as breaks shall not occur. After test, specimen shall meet electrical requirements



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7. Material

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No	Part Name	SPEC	
1	Antenna	Dielectric Ceramics	
2	PCB	FR4	
3	Shielding	Tinplate	
4	RF Cable	$L1=500\pm10$ CM $L2=500\pm10$ CM	
5	RF Connector	GPS: SMBA(FAKRA-C) GSM: SMBA(FAKRA-D)	
6	Housing Type	Y	
7	Assemblage	Ultrasound Welding	

8. Notes



Electrostatic sensitive device, Observe precautions for handling.

9. Packing

ach carton includes 60 PCS antenna, Each lattice put 1PCS antenna,

6 layers per carton , the size of carton is 450 \times 400 $\!\times$ 300

