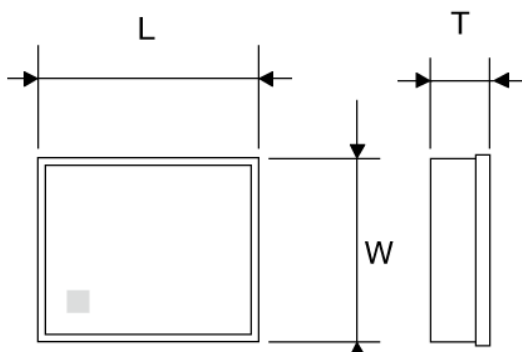


SAW Filter

FAR-F6KB-1G5754-B4GU



■ Features

- Item Summary
GPS, 504
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 3000 , 15000pcs

■ Products characteristics table

Temperature Range	-30 to +85°C
Use	GPS
Insertion Loss	1.2dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	1.4mm +0.1:-0.1
W	1.0mm +0.1:-0.1
T	0.5mm max

2015.06.03

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
 TAIYO YUDEN reserves the right to make change to the Date at any time without notice.
 Before making final selection, please check product specification.



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GU	Version 1.1a	

Table 1. Electrical specifications

Passband: 1574.42~ 1576.42 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1574.42~1576.42 MHz	-	1.2	1.6	dB	
Ripple	1574.42~1576.42 MHz	-	0.1	0.6	dB	
Absolute attenuation	DC ~ 905 MHz	43	49	-	dB	
	905 ~ 1200 MHz	40	46	-	dB	
	1200 ~ 1480 MHz	32	37	-	dB	
	1480 ~ 1526 MHz	16	20	-	dB	
	1620 ~ 1626 MHz	22	32	-	dB	
	1626 ~ 1660 MHz	18	23	-	dB	
	1660 ~ 1675 MHz	22	27	-	dB	
	1675 ~ 1710 MHz	25	30	-	dB	
	1710 ~ 1800 MHz	29	34	-	dB	
	1800 ~ 1980 MHz	33	44	-	dB	
	2400 ~ 2500 MHz	40	49	-	dB	
VSWR (Input)	1574.42~1576.42 MHz	-	1.4	1.9	-	
VSWR (Output)	1574.42~1576.42 MHz	-	1.3	1.9	-	
Amplitude Balance S21 / S31	1574.42~1576.42 MHz	-1.1	+0.5/ +0.6	+1.1	dB	
Phase Balance (Φ S21- Φ S31)-180	1574.42~1576.42 MHz	-11	+3.6/ +4.0	+11	deg.	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balance	100			ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ.x1.0typ.x0.5max.			mm	



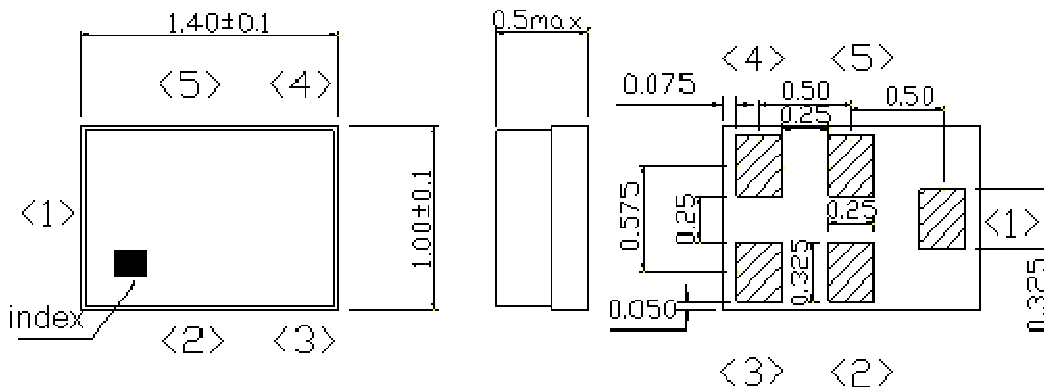
MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GU	Version 1.1a	

Dimension

Device size: 1.4typ. x 1.0typ. x 0.5max.

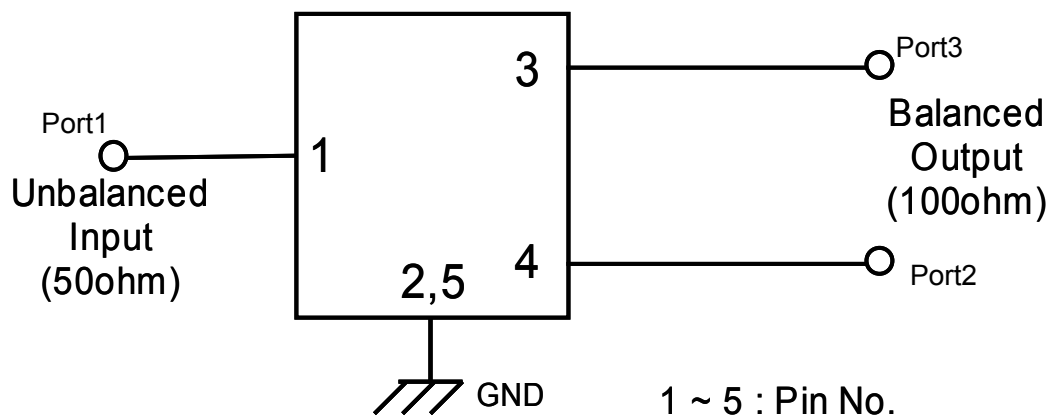


Unit: mm

Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

Evaluation Circuit





MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GU	Version 1.1a	

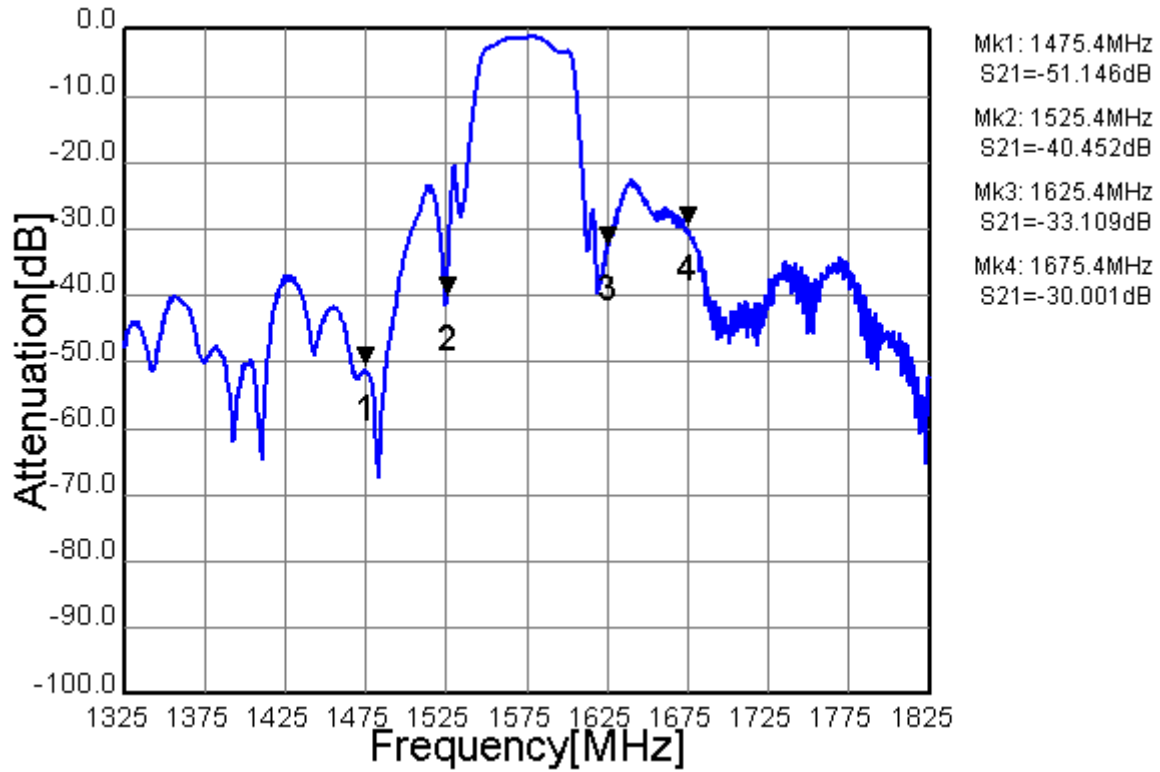


Fig.1 Pass-band Characteristic

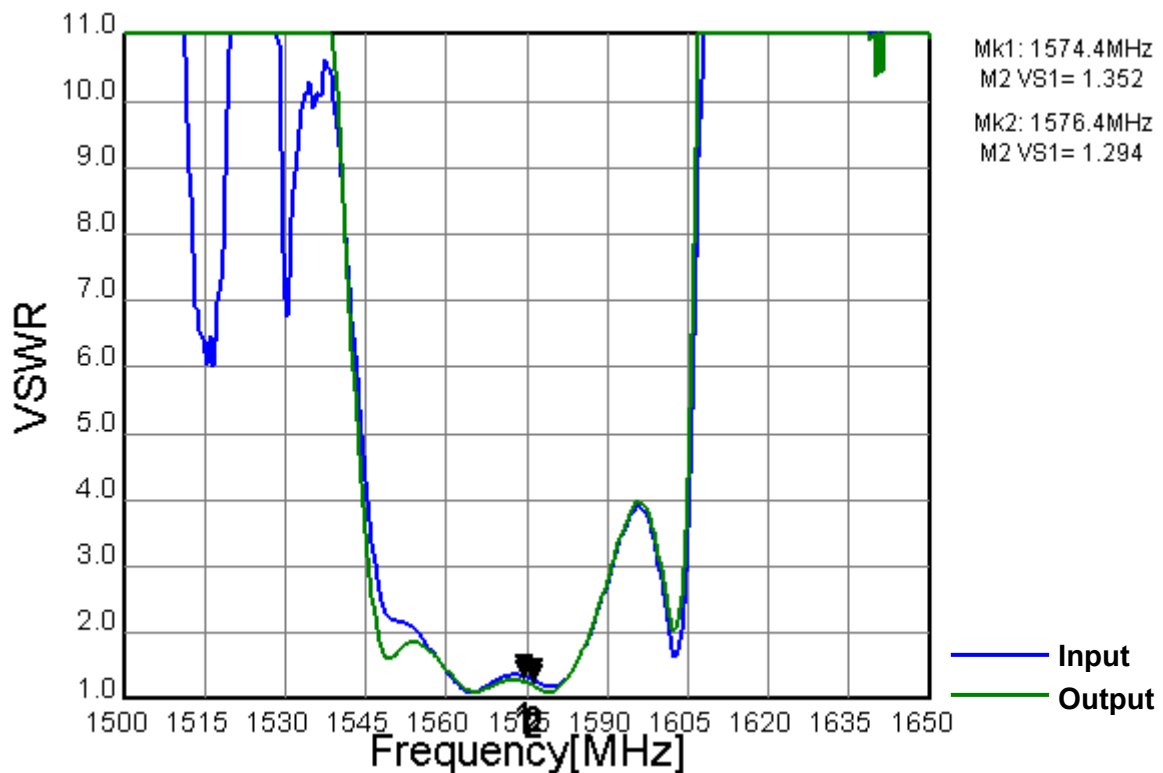


Fig.2 VSWR



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GU	Version 1.1a	

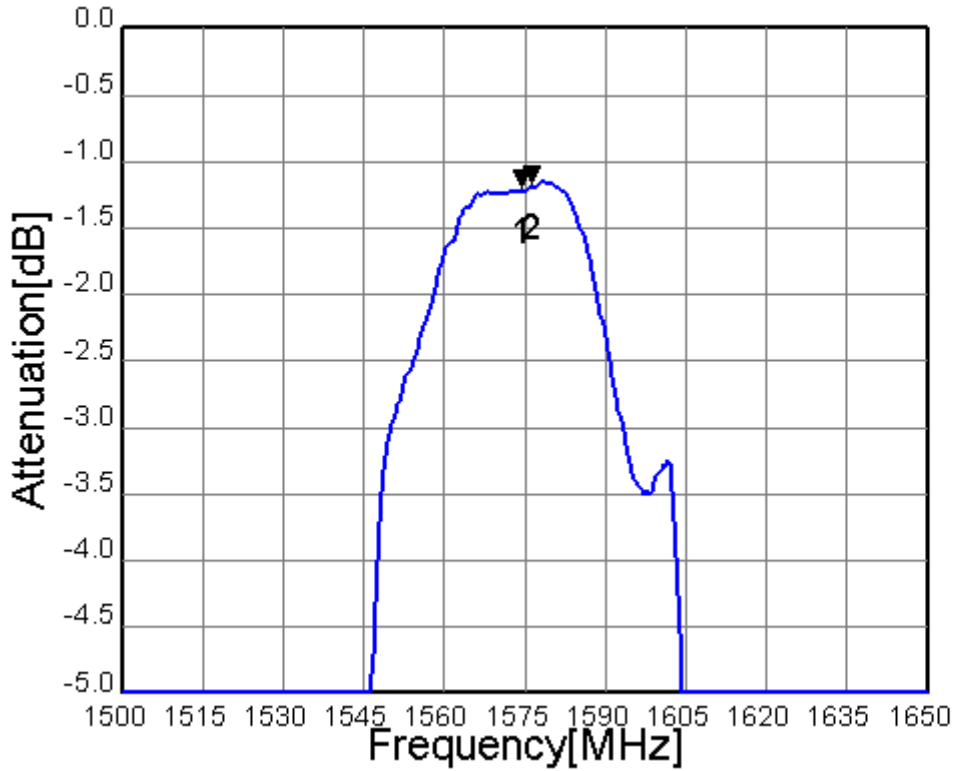


Fig.3 In-band Characteristic

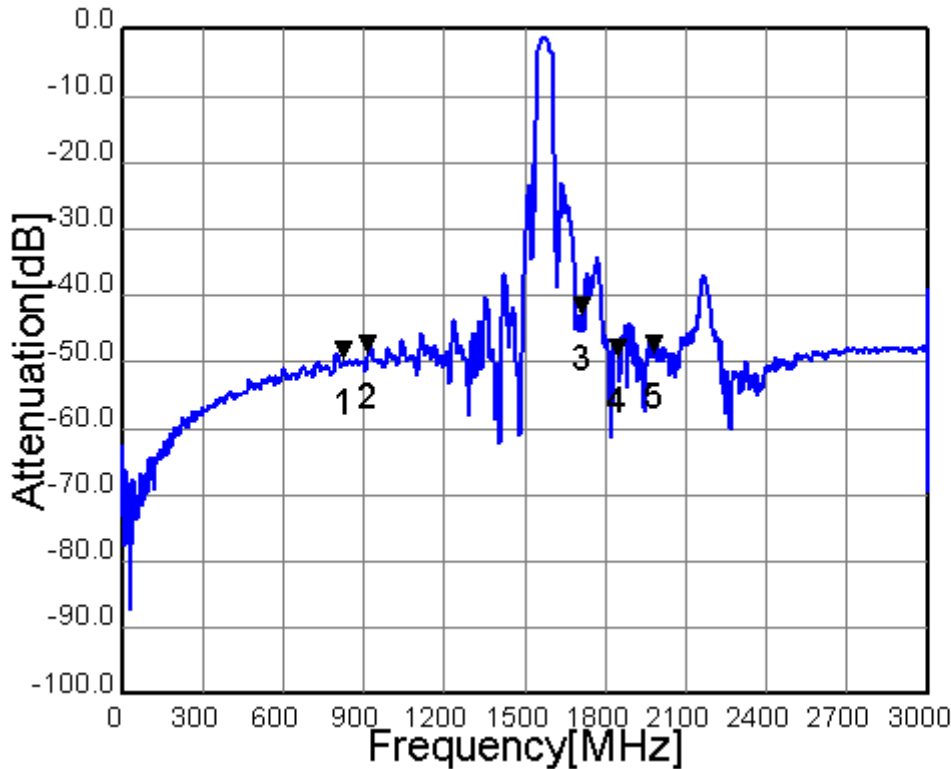


Fig.4 Wide-band Characteristic



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GU	Version 1.1a	

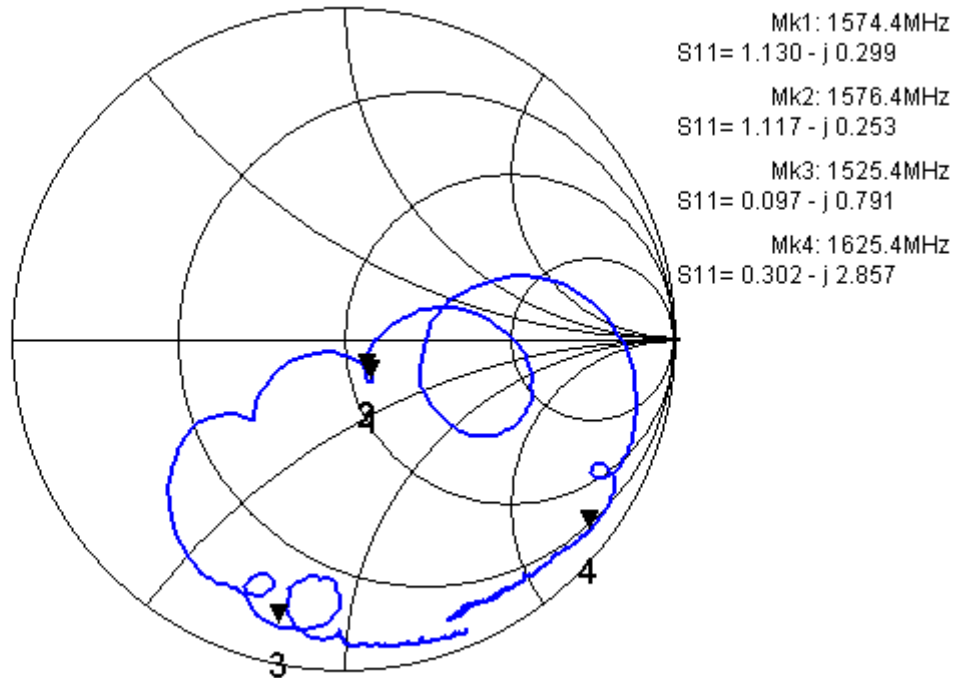


Fig.5 Input Impedance

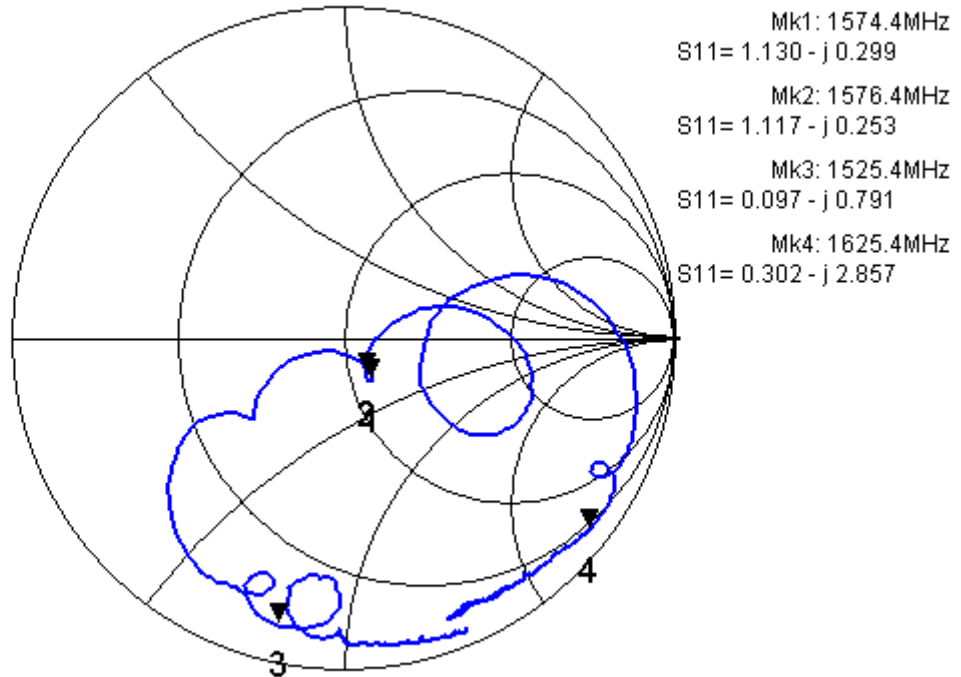


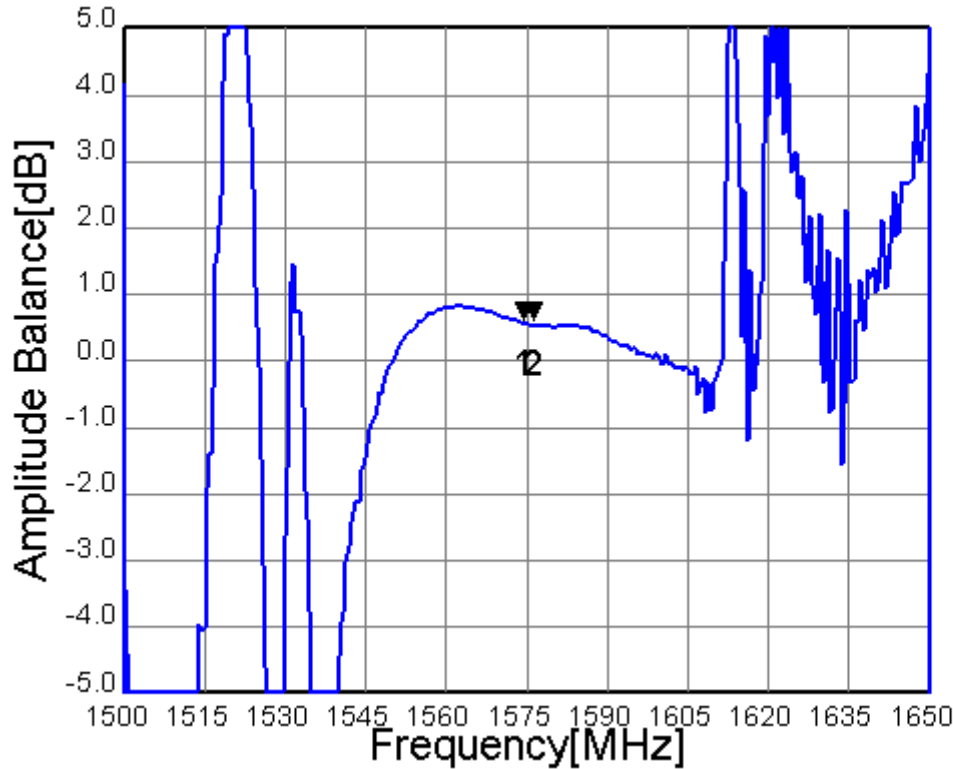
Fig.6 Output Impedance



MSL1

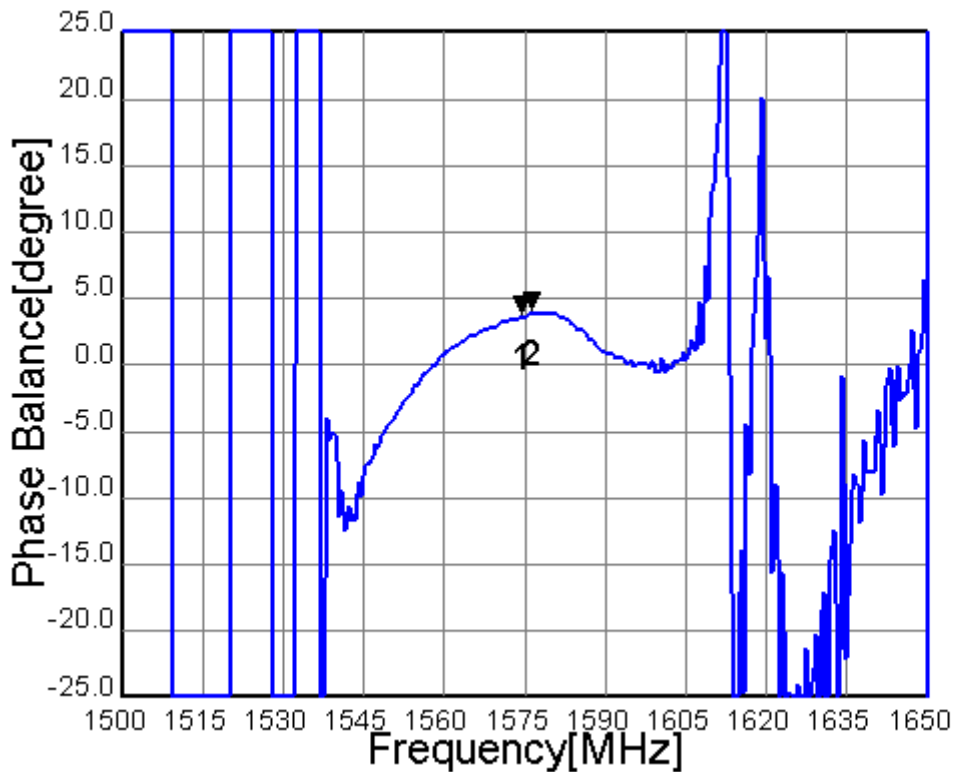
* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GU	Version 1.1a	



Mk1: 1574.4MHz
M2ABal= 0.571dB
Mk2: 1576.4MHz
M2ABal= 0.545dB

Fig.7 Amplitude Balance



Mk1: 1574.4MHz
M2PBal= 3.561de
Mk2: 1576.4MHz
M2PBal= 3.844de

Fig.8 Phase Balance