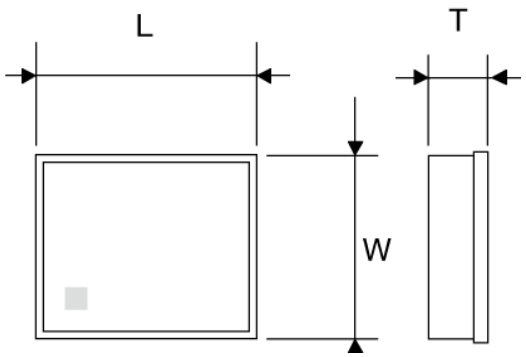
Spec Sheet

SAW Filter

FAR-F6KB-1G5754-B4GE



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℃
Use	GPS
Insertion Loss	1.1dB
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.

Pb-free RoHS 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-B4GE	Version 3.1c	

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	-	1.1	1.5	dB	
Ripple	1574.42~1576.42 MHz	-	0.1	0.6	dB	
Absolute attenuation	824~849 MHz	36	43	-	dB	
	880~915 MHz	36	41	-	dB	
	1475.42 MHz	28	36	-	dB	
	1525.42 MHz	25	40	-	dB	
	1625.42 MHz	13	19	-	dB	
	1675.42 MHz	15	23	-	dB	
	1710~1785 MHz	19	25	-	dB	
	1850~1910 MHz	30	37	-	dB	
	1920~1980 MHz	33	41	-	dB	
VSWR (Input)	1574.42~1576.42 MHz	-	1.4	1.9	-	
VSWR (Output)	1574.42~1576.42 MHz	-	1.4	1.9	-	
Amplitude Balance |S21|/|S31|	1574.42~1576.42 MHz	-1.1	+0.2/ +0.3	+1.1	dB	
Phase Balance (ΦS21-ΦS31)-180	1574.42~1576.42 MHz	-11	+3.9/ +4.2	+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	

Pb-free

RoHS

MSL1

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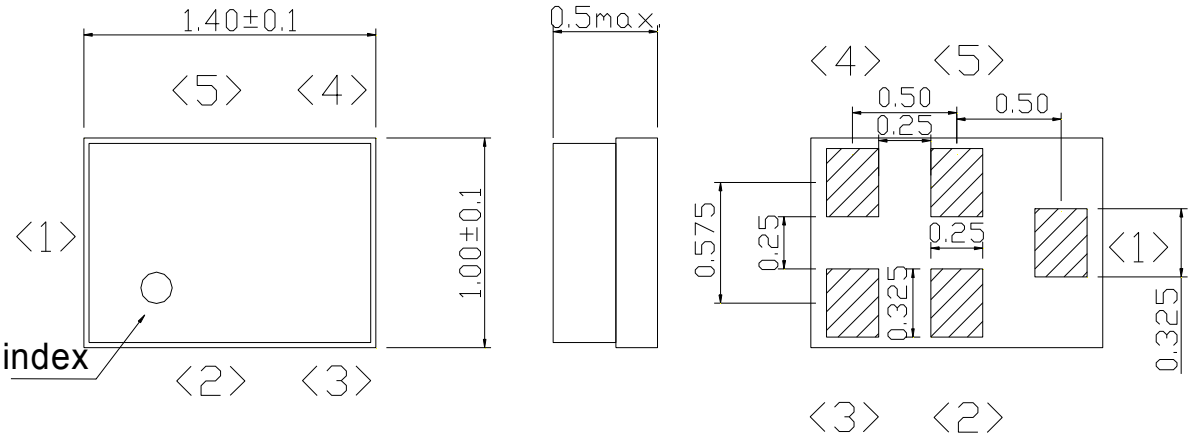
Dimension

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

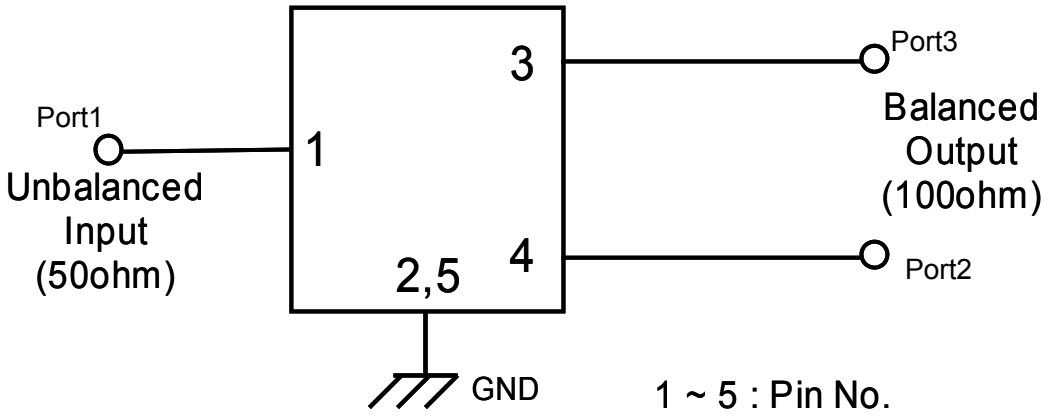


Unit: mm

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



Pb-free

RoHS

MSL1

* Pb Free Part

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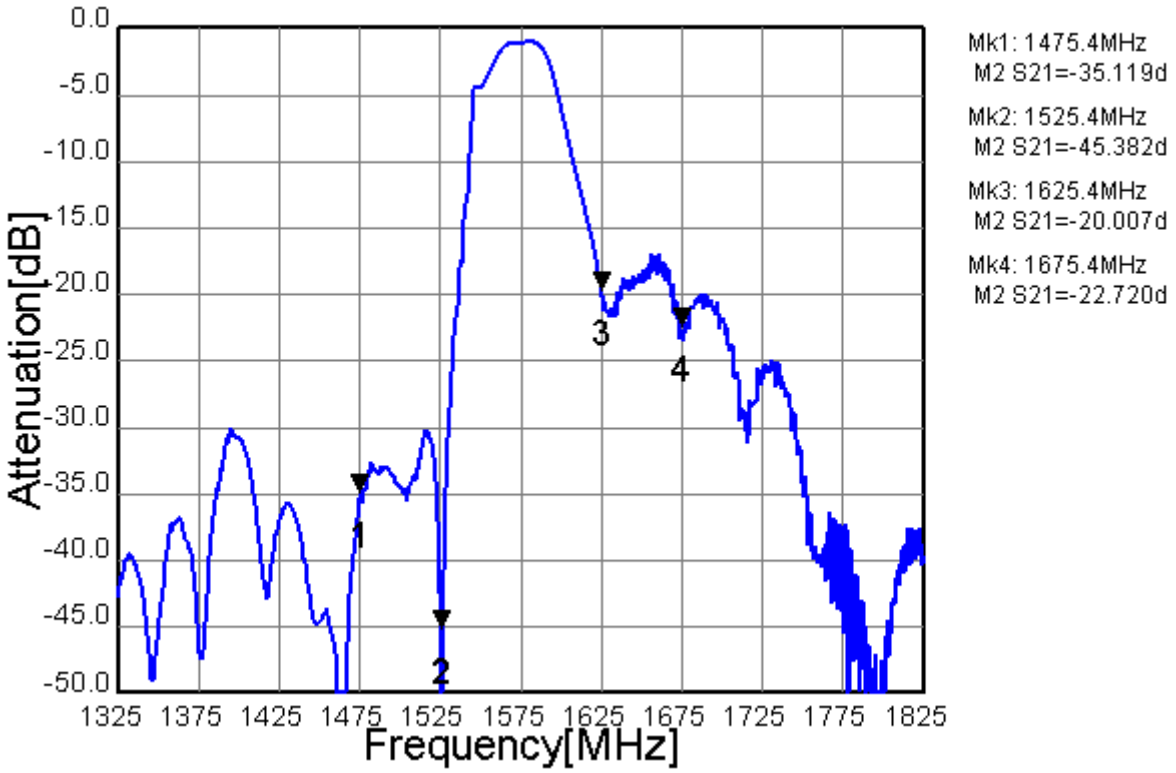

Fig.1 Pass-band Characteristic

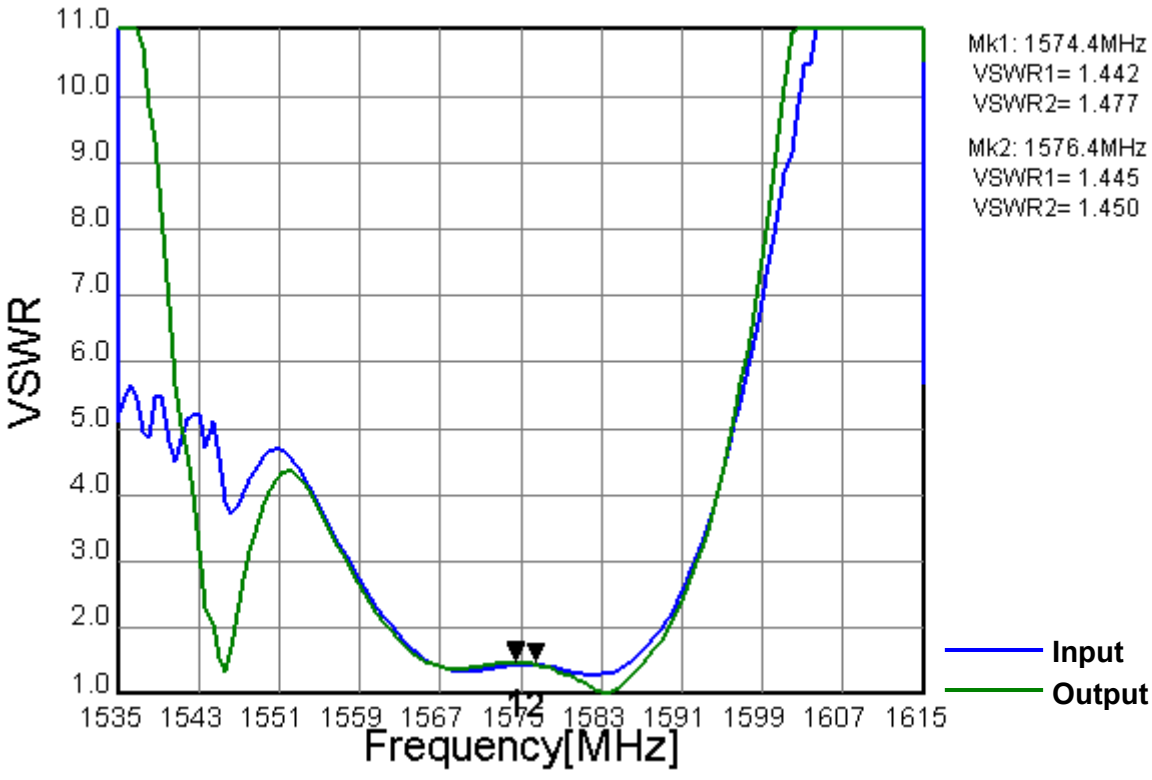

Fig.2 VSWR

Customer Name	**Standard specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GE	Version 3.1c	

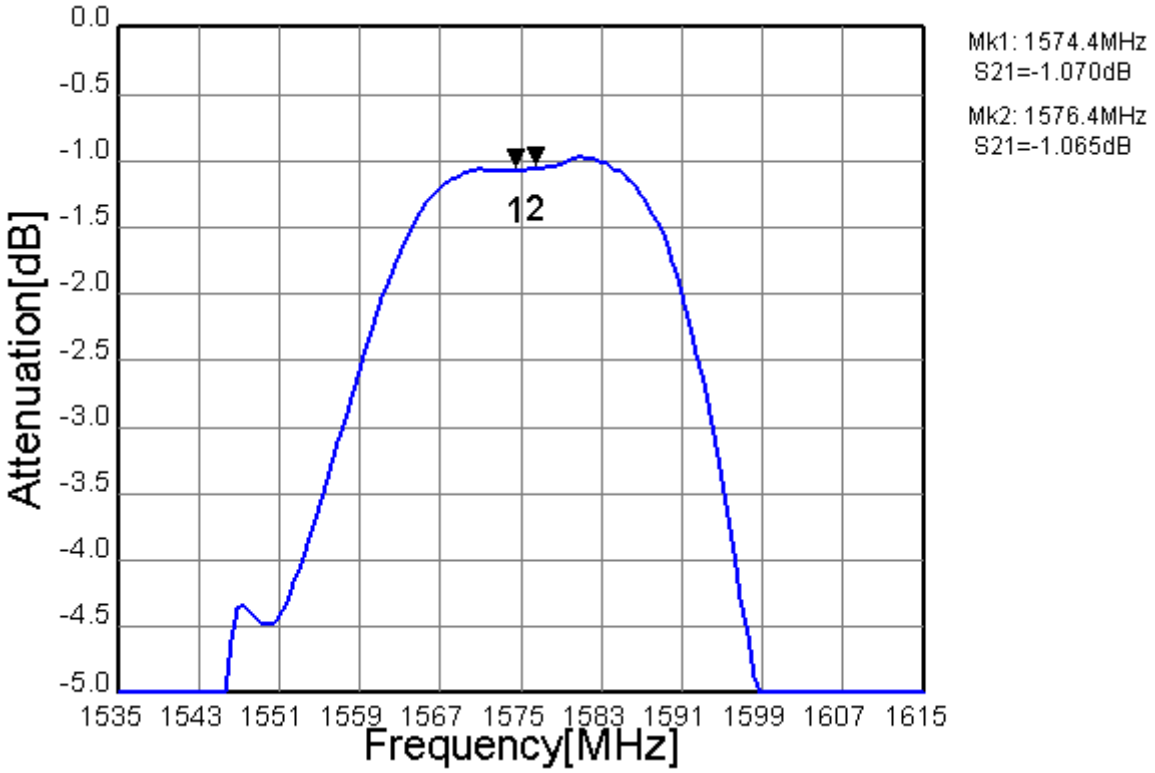

Fig.3 In-band Characteristic

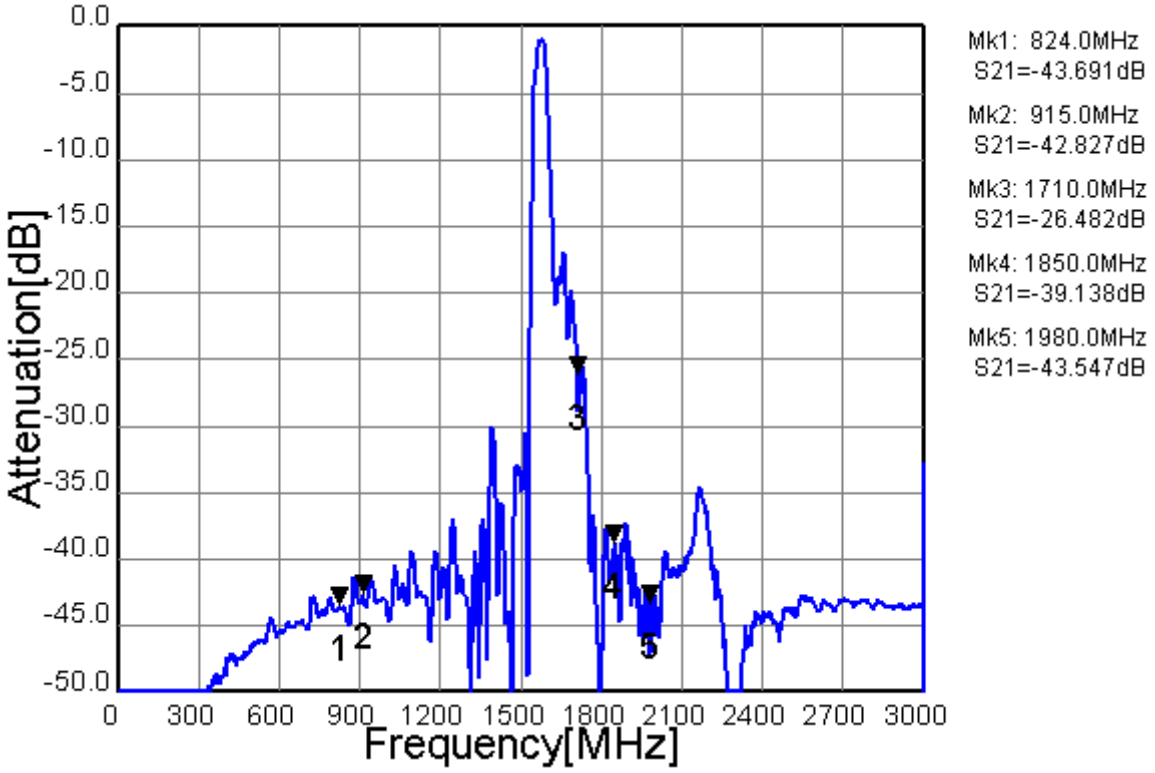

Fig.4 Wide-band Characteristic

Customer Name	**Standard specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GE	Version 3.1c	

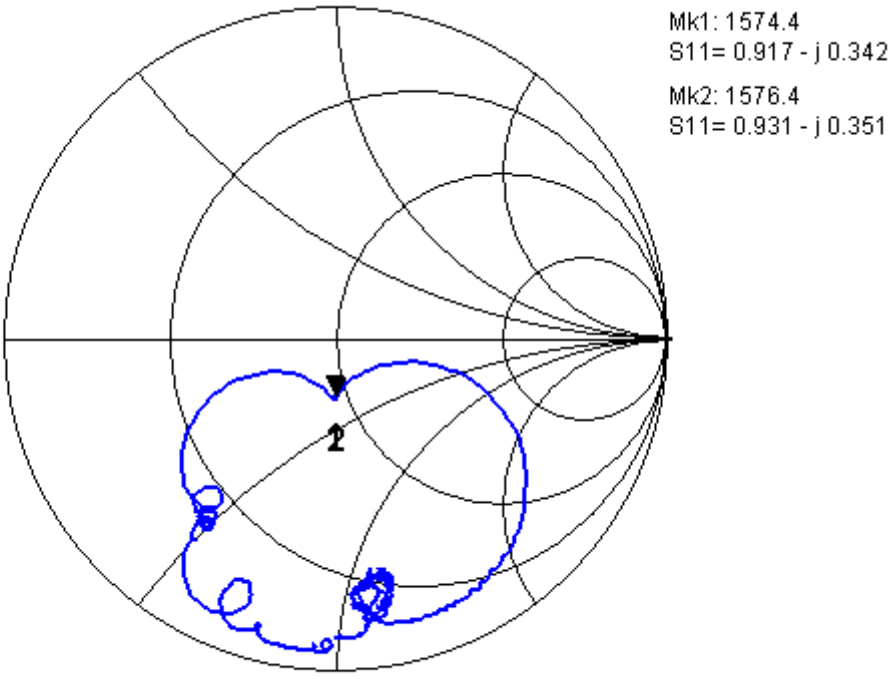

Fig.5 Input Impedance

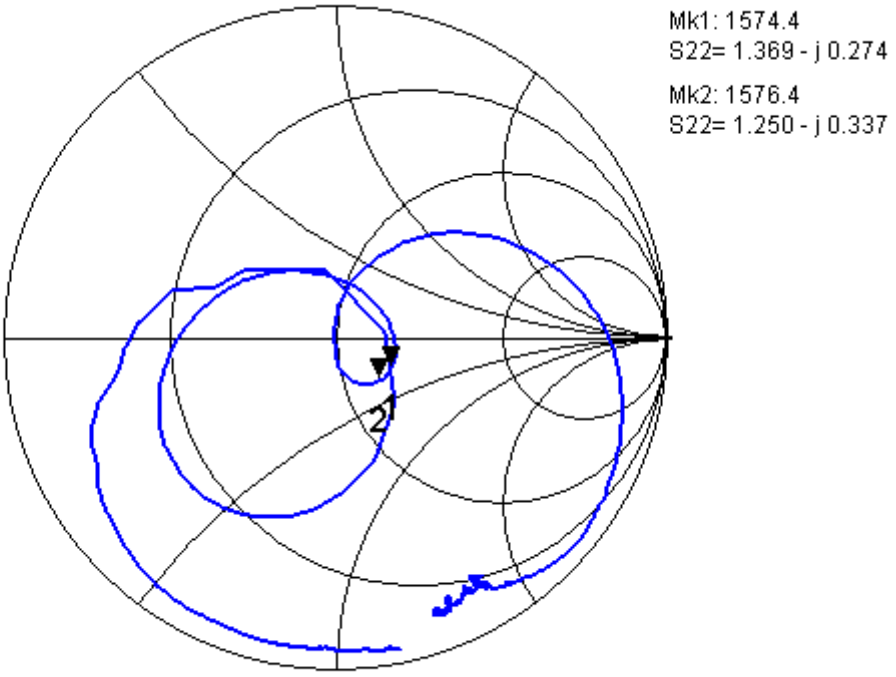

Fig.6 Output Impedance

Customer Name	**Standard specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G5754-B4GE	Version 3.1c	

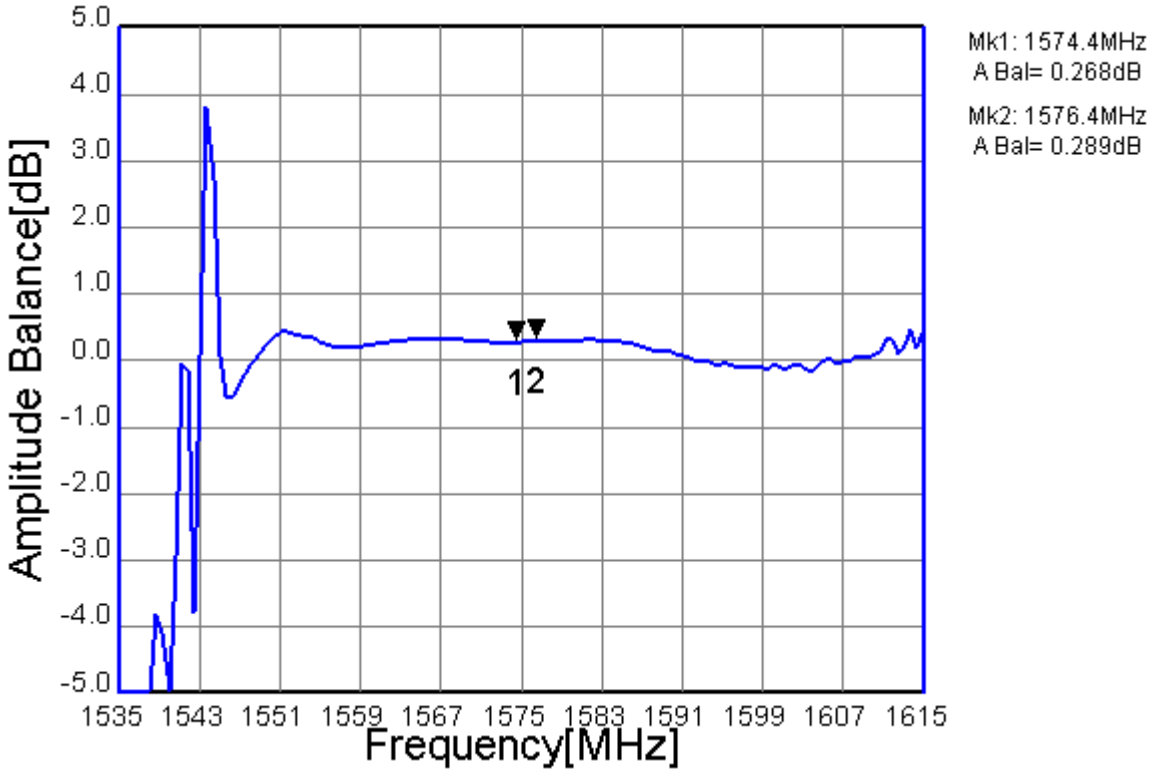

Fig.7 Amplitude Balance

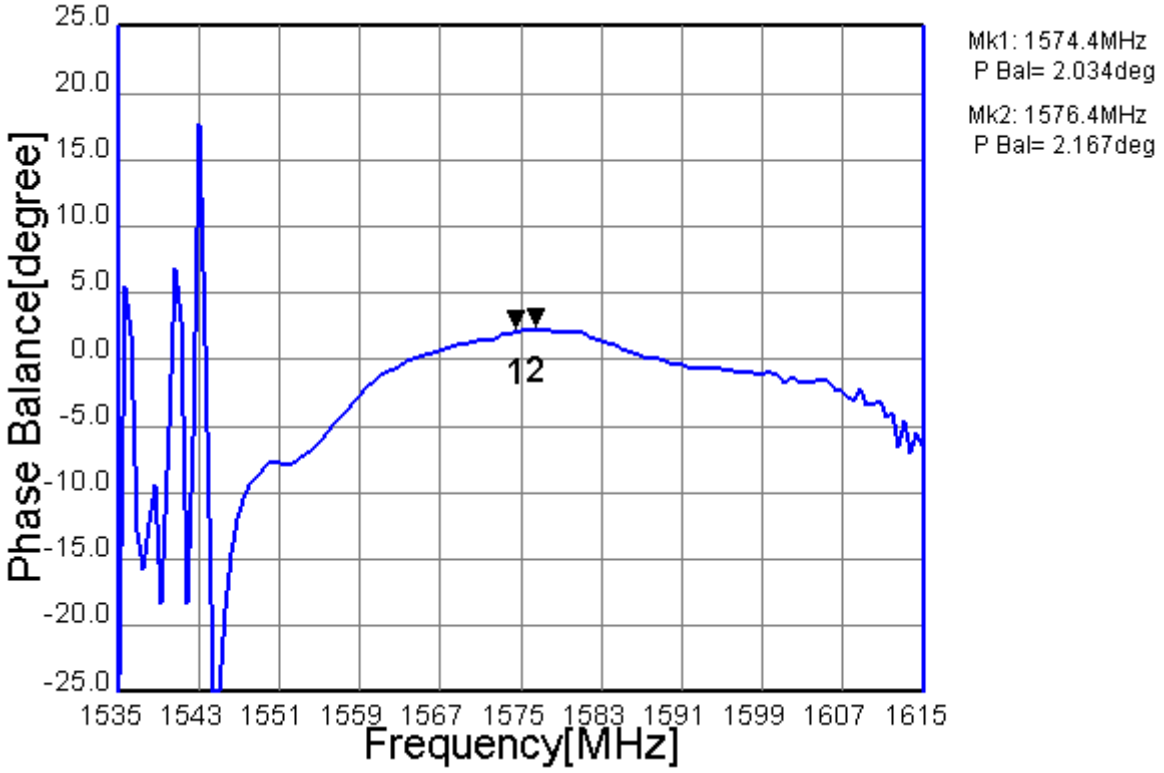

Fig.8 Phase Balance