



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 ( $\Phi$ S21- $\Phi$ 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	



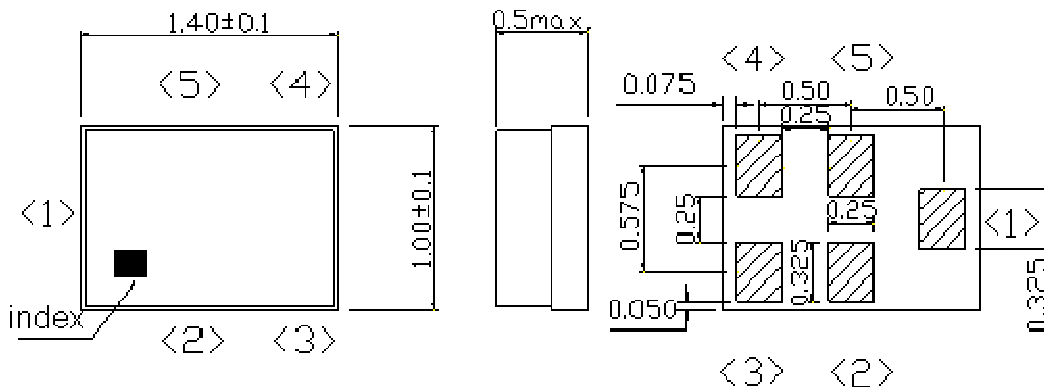
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### Dimension

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

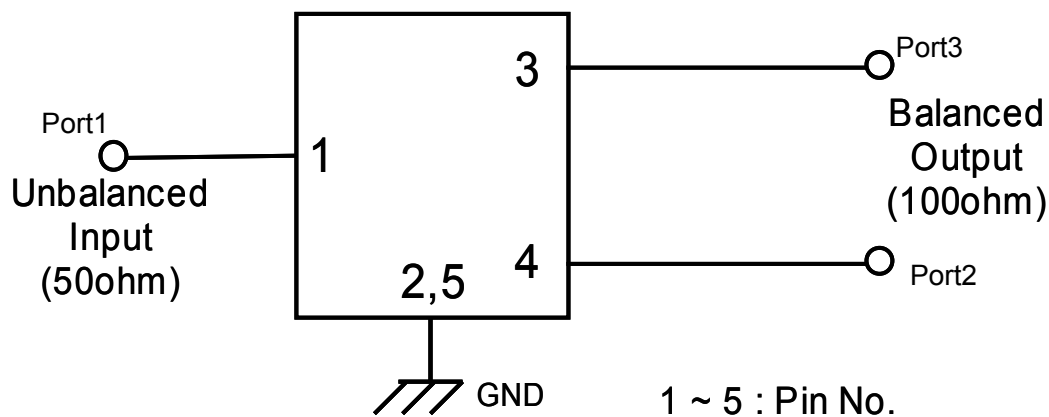


Unit: mm

### 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





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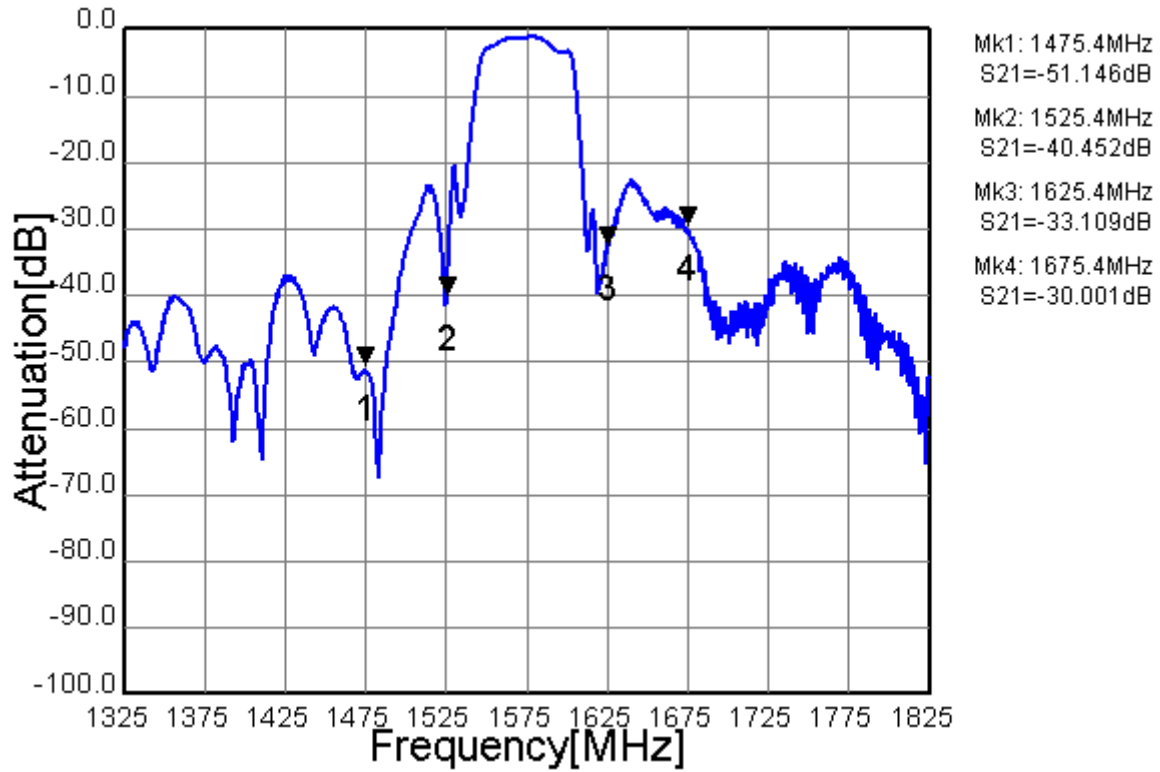


Fig.1 Pass-band Characteristic

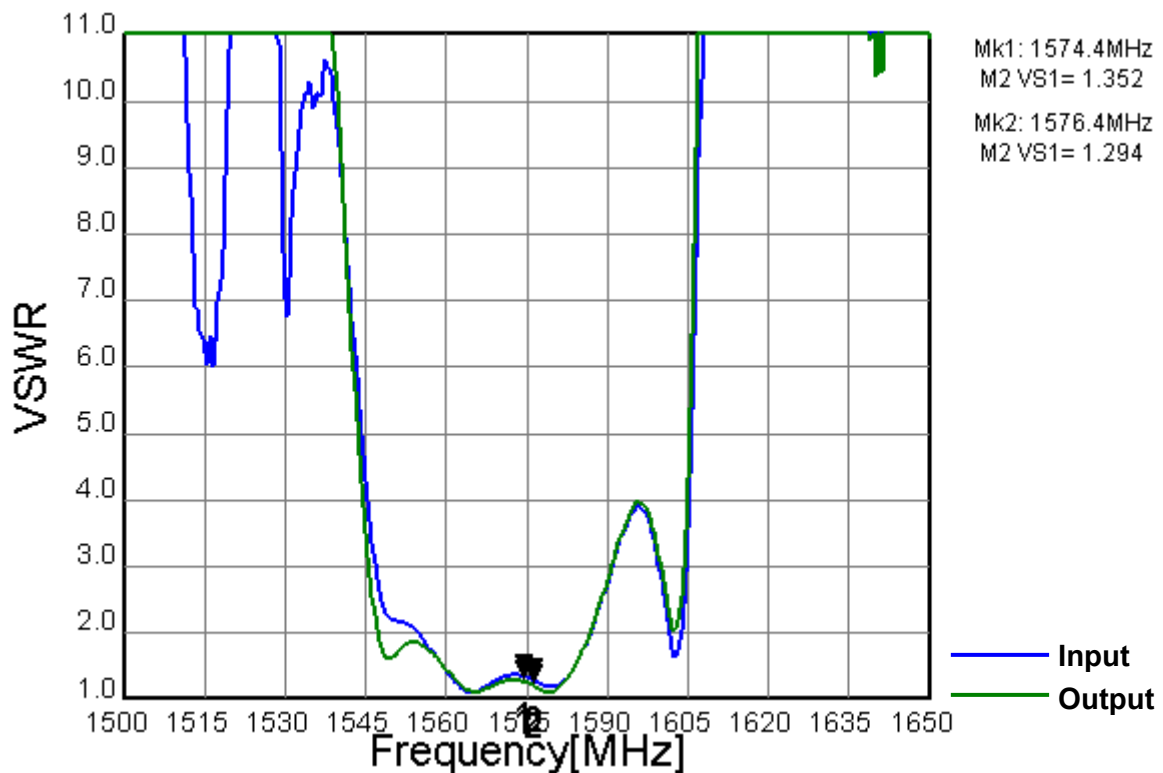


Fig.2 VSWR



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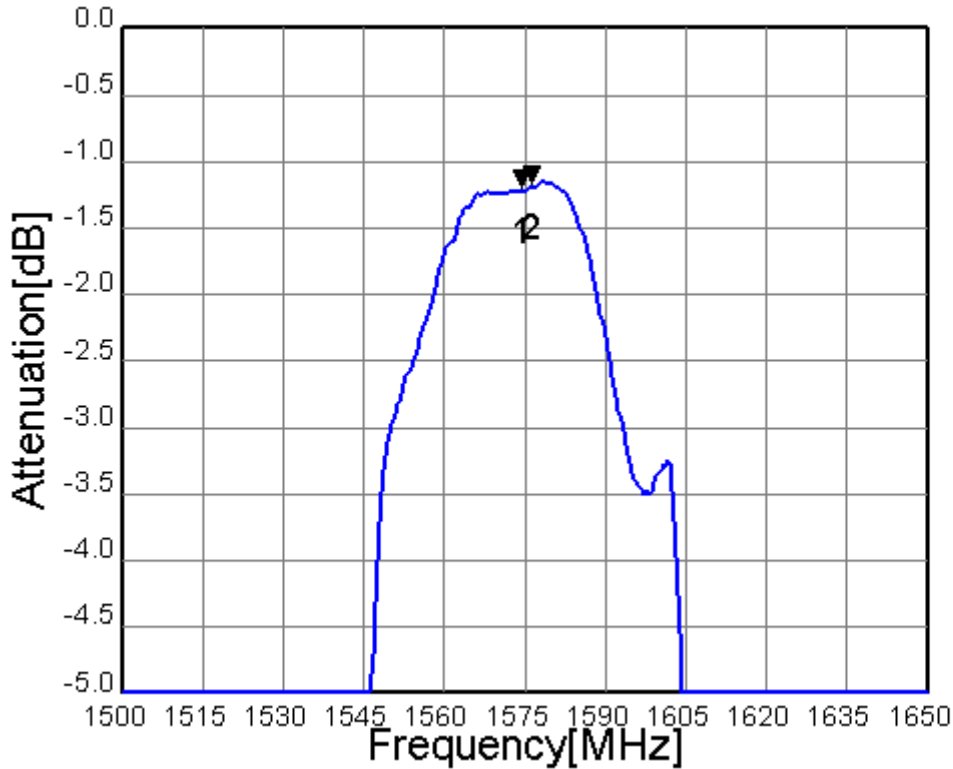


Fig.3 In-band Characteristic

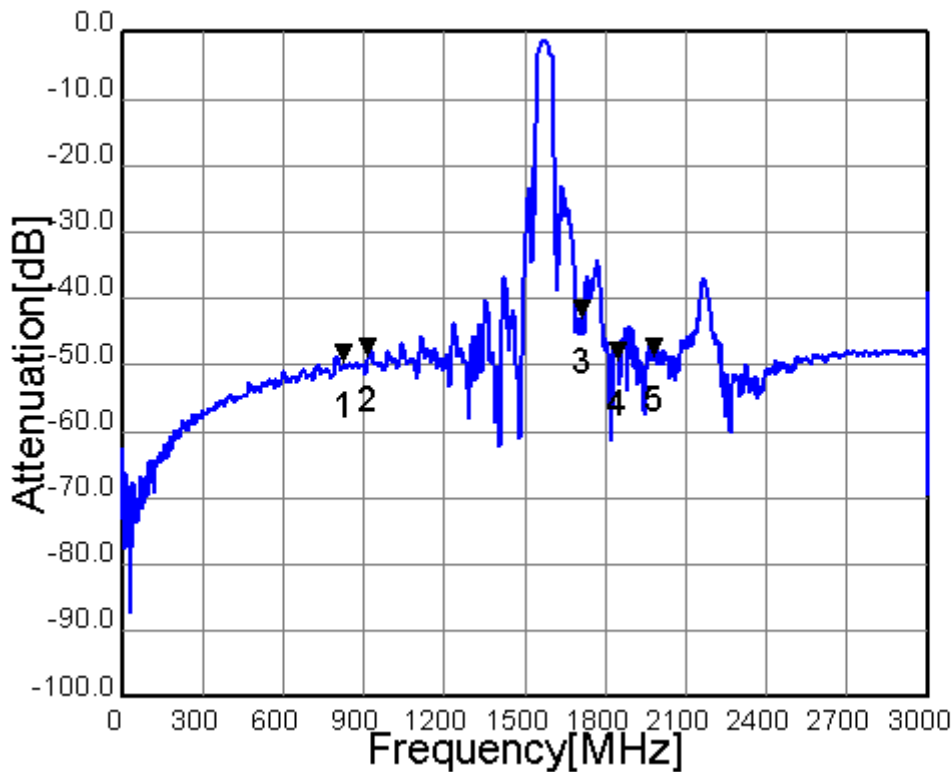


Fig.4 Wide-band Characteristic



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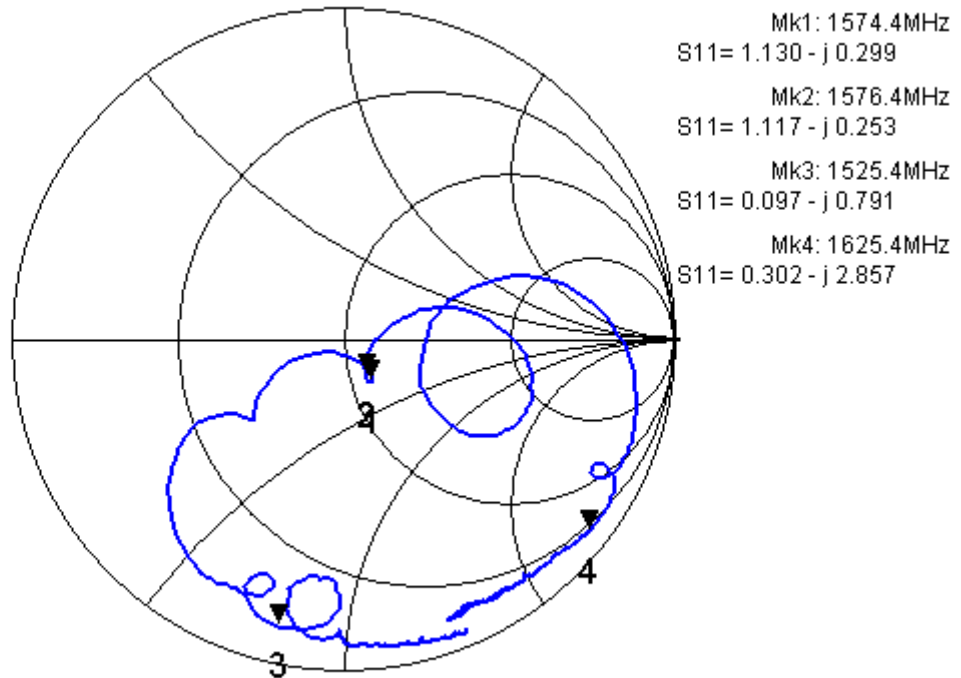


Fig.5 Input Impedance

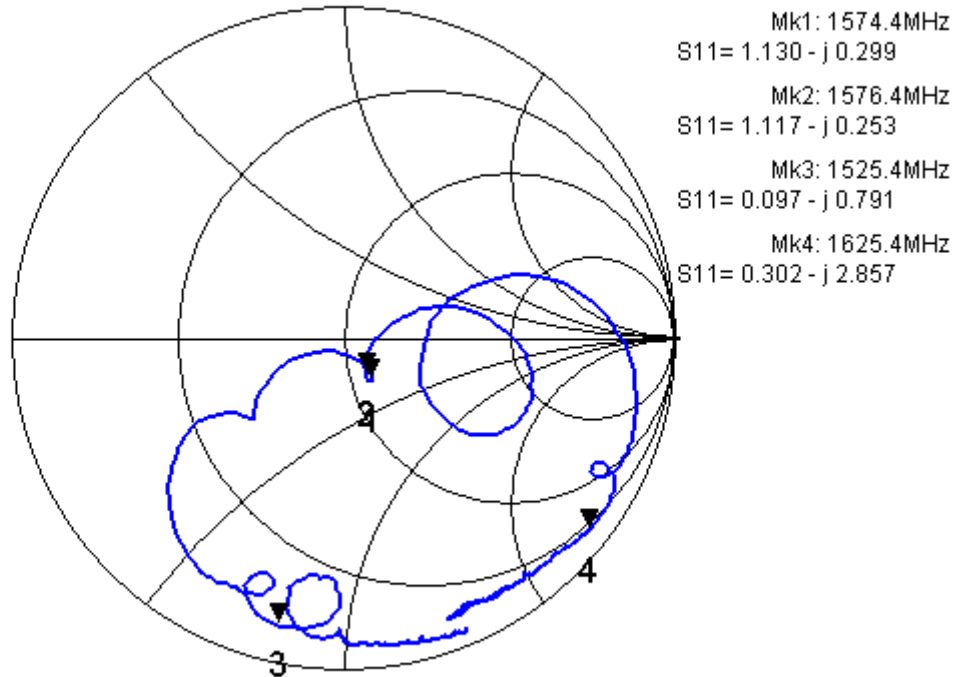


Fig.6 Output Impedance



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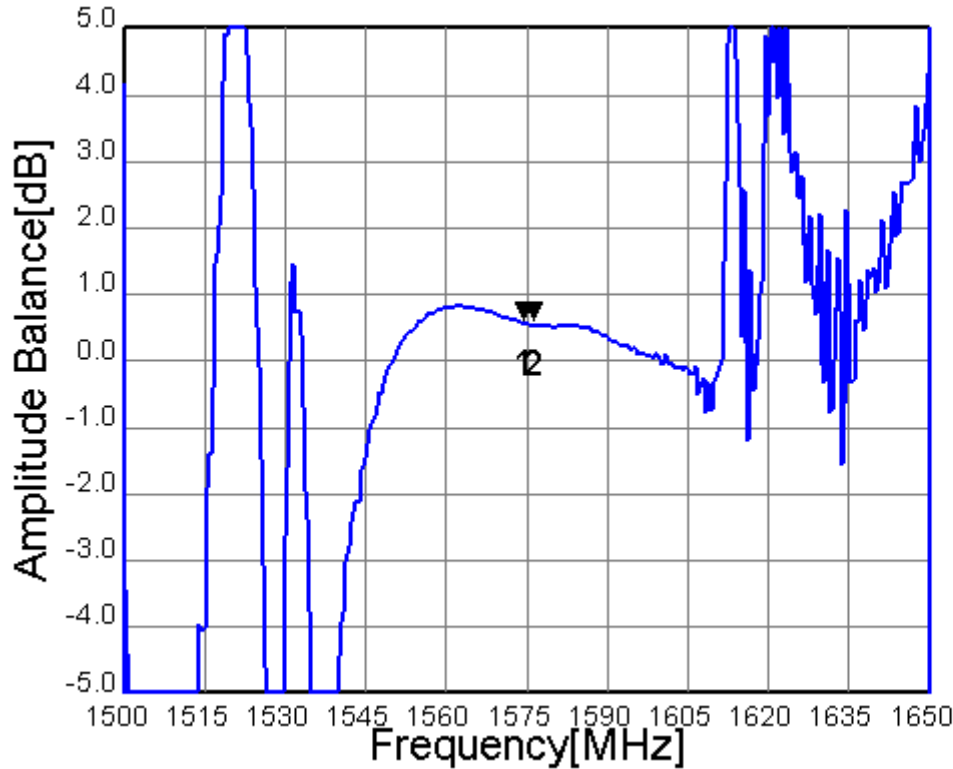


Fig.7 Amplitude Balance

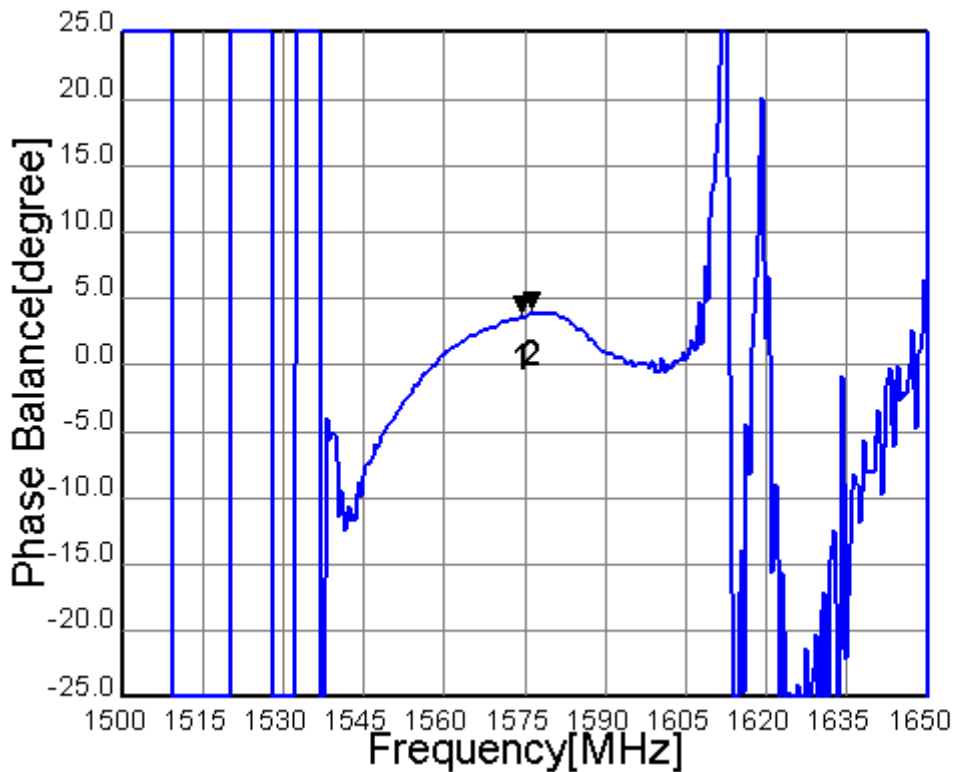


Fig.8 Phase Balance