

Customer Name	<b>Standard specifications</b>	FUJITSU MEDIA DEVICES LIMITED	
System	GPS (50/100 ohm)	DATE	Sep. 7, 2005
FMD Part Number	FAR-F6KB-1G5754-B4GE	Version 3.1c	

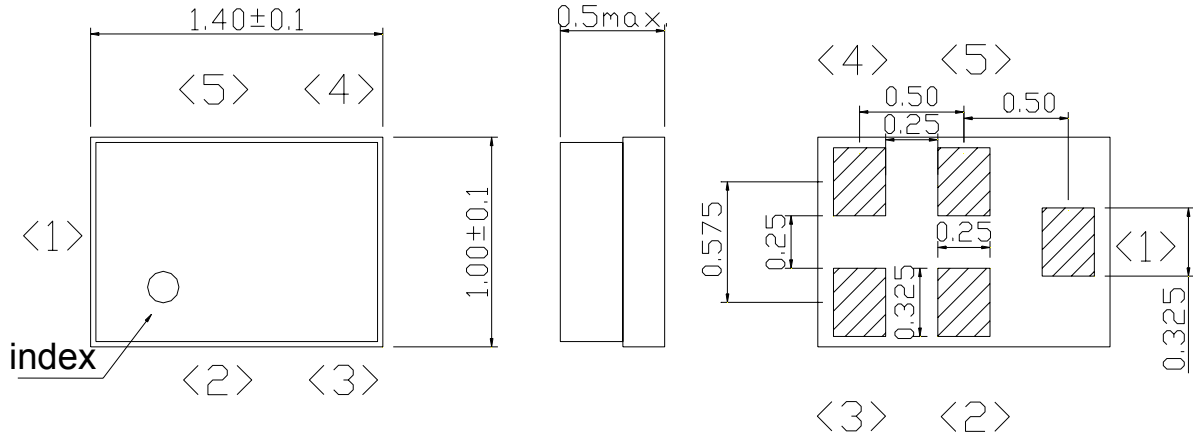
**Table 1. Electrical specifications**

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  S <sub>21</sub>  / S <sub>31</sub>	1574.42~1576.42 MHz	-1.1	+0.2/ +0.3	+1.1	dB	
Phase Balance ( $\phi_{S21}-\phi_{S31}$ )-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	

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**Dimension**

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

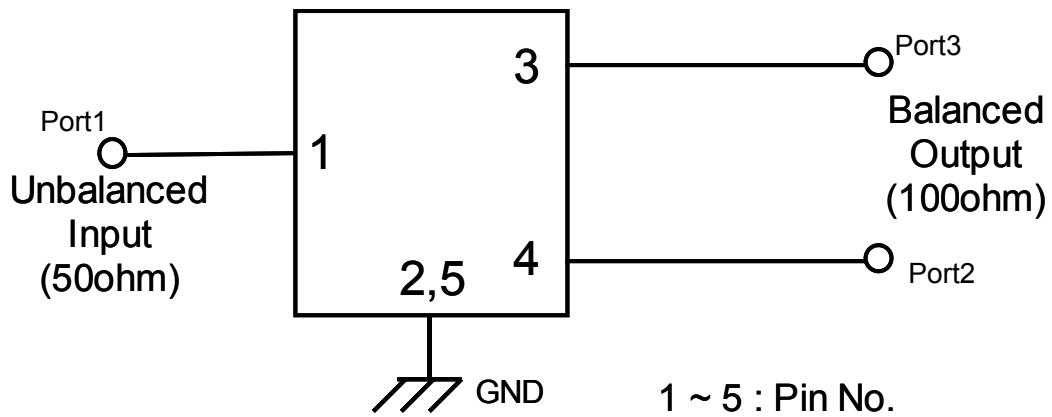


Unit: mm

**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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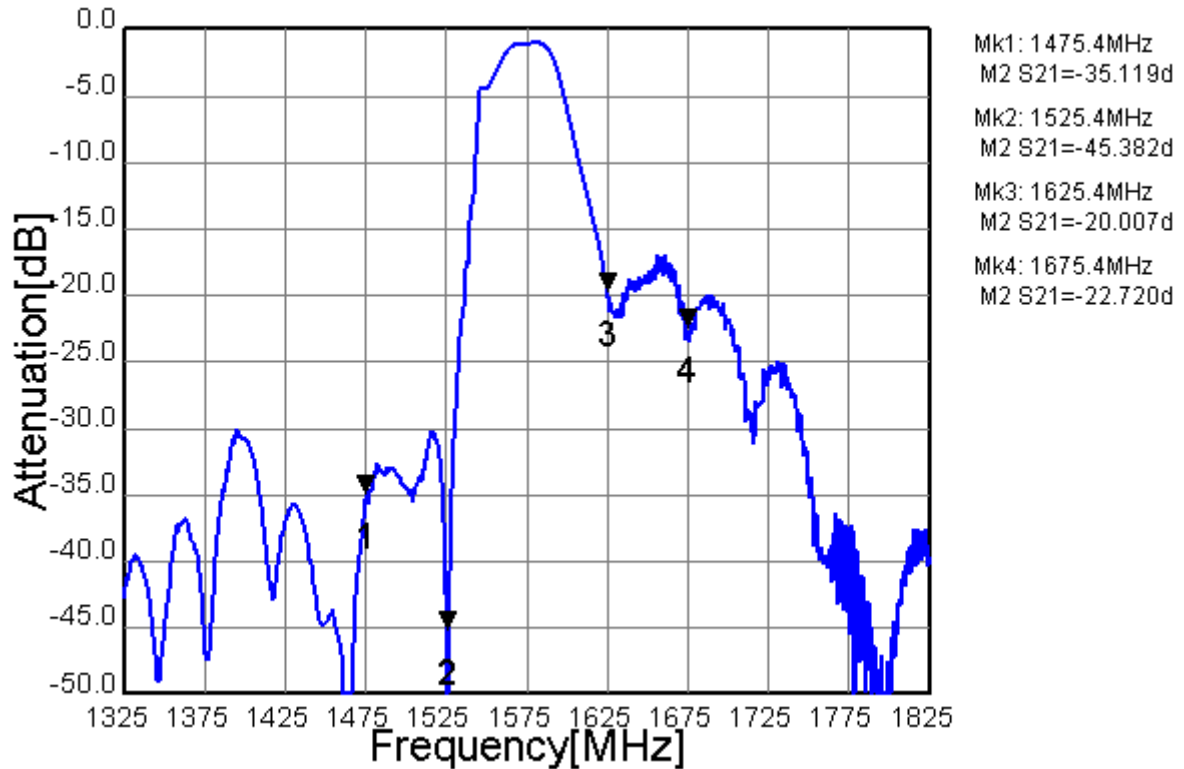


Fig.1 Pass-band Characteristic

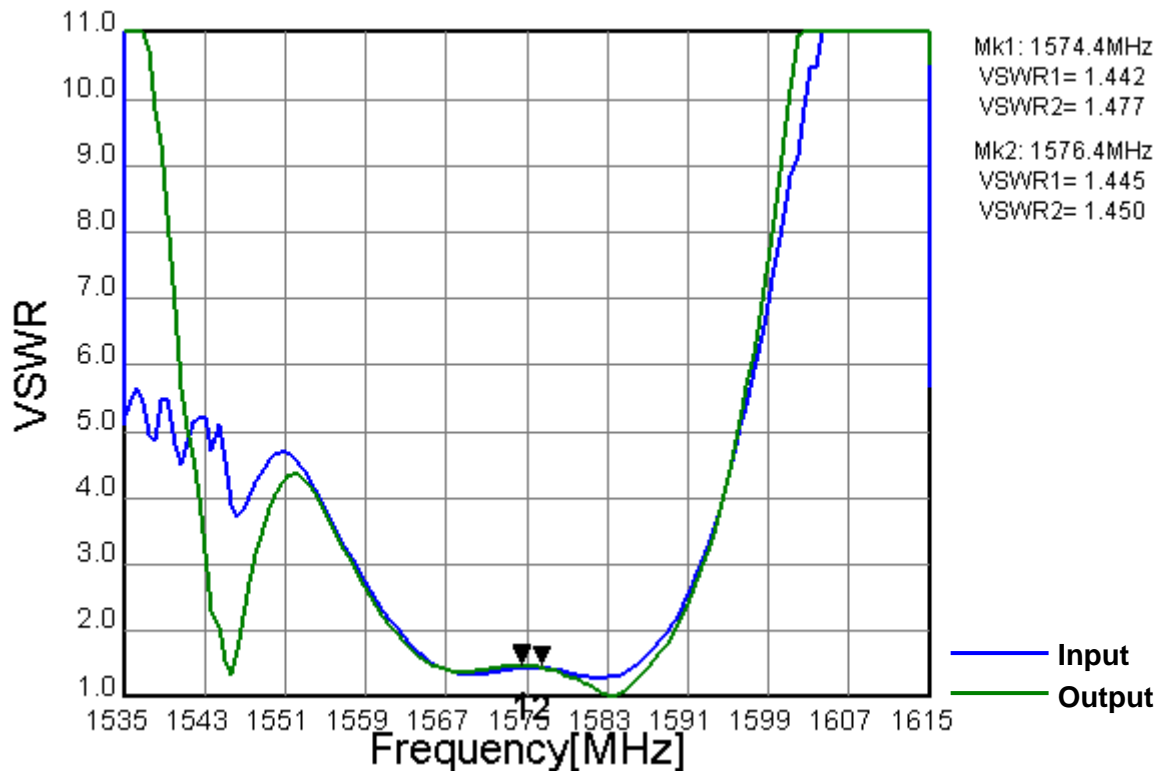
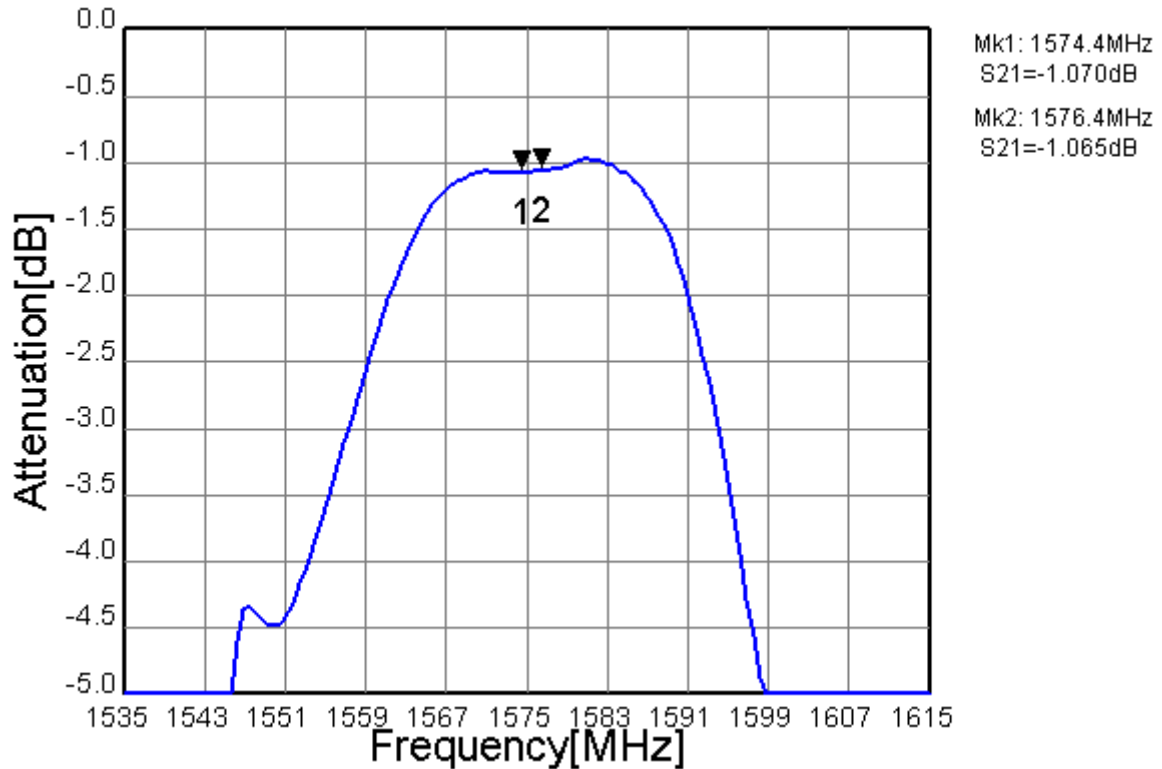
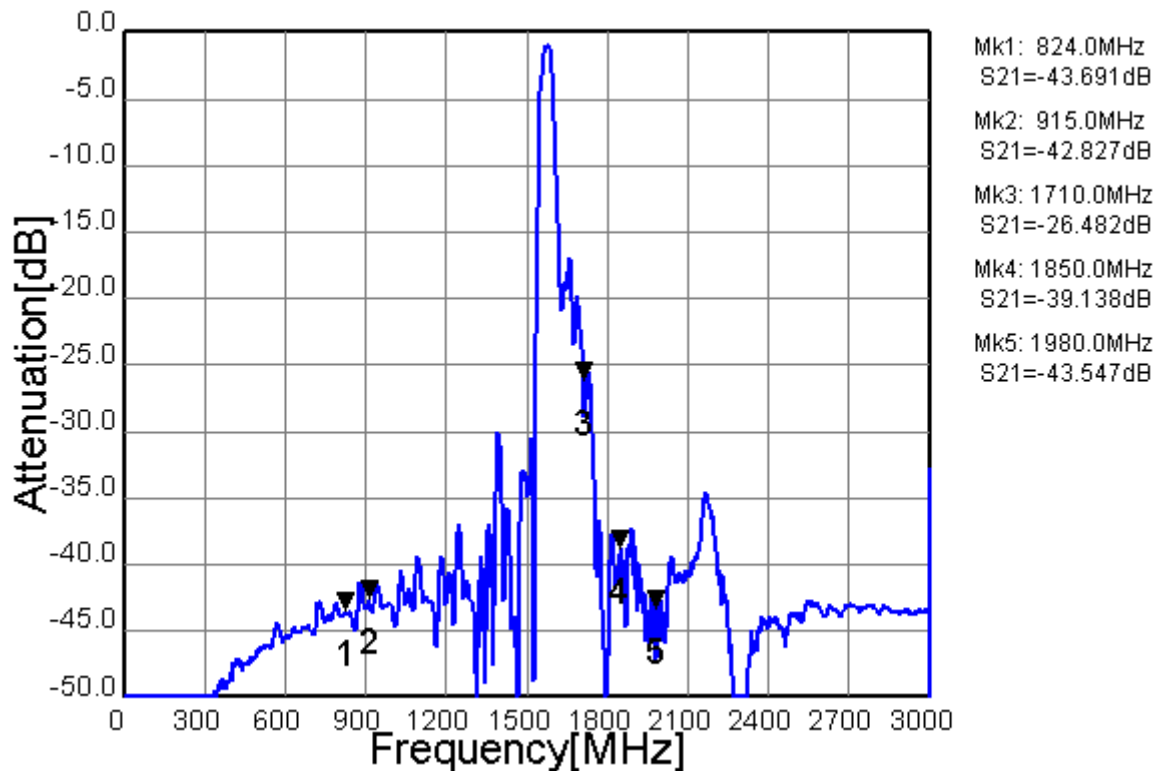


Fig.2 VSWR

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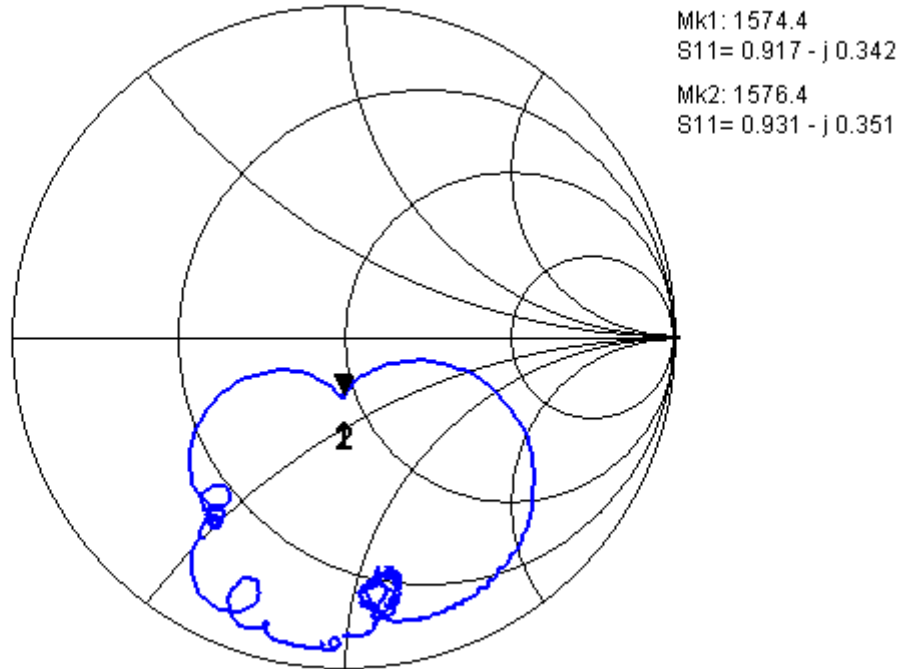


**Fig.3 In-band Characteristic**

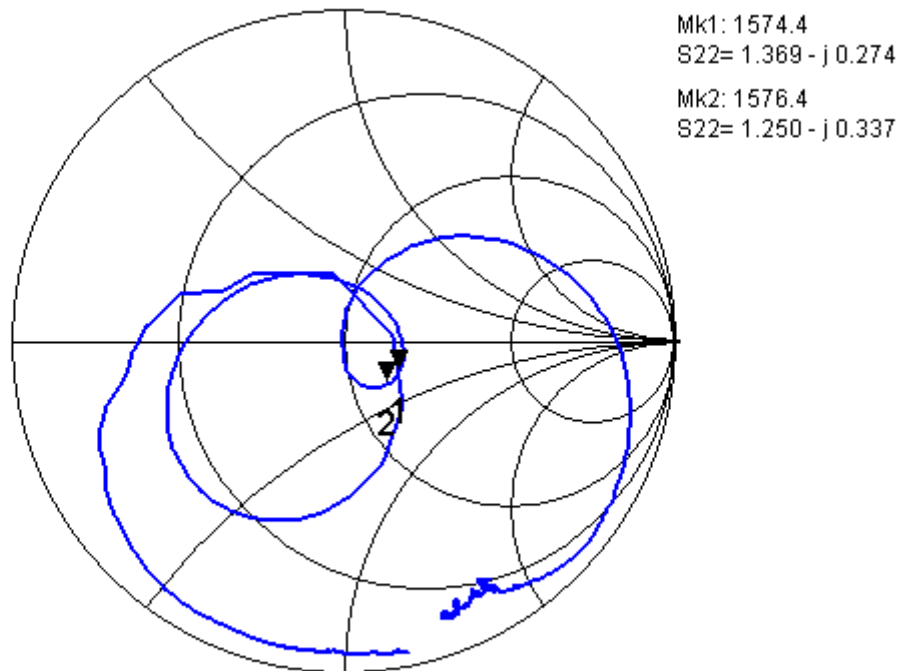


**Fig.4 Wide-band Characteristic**

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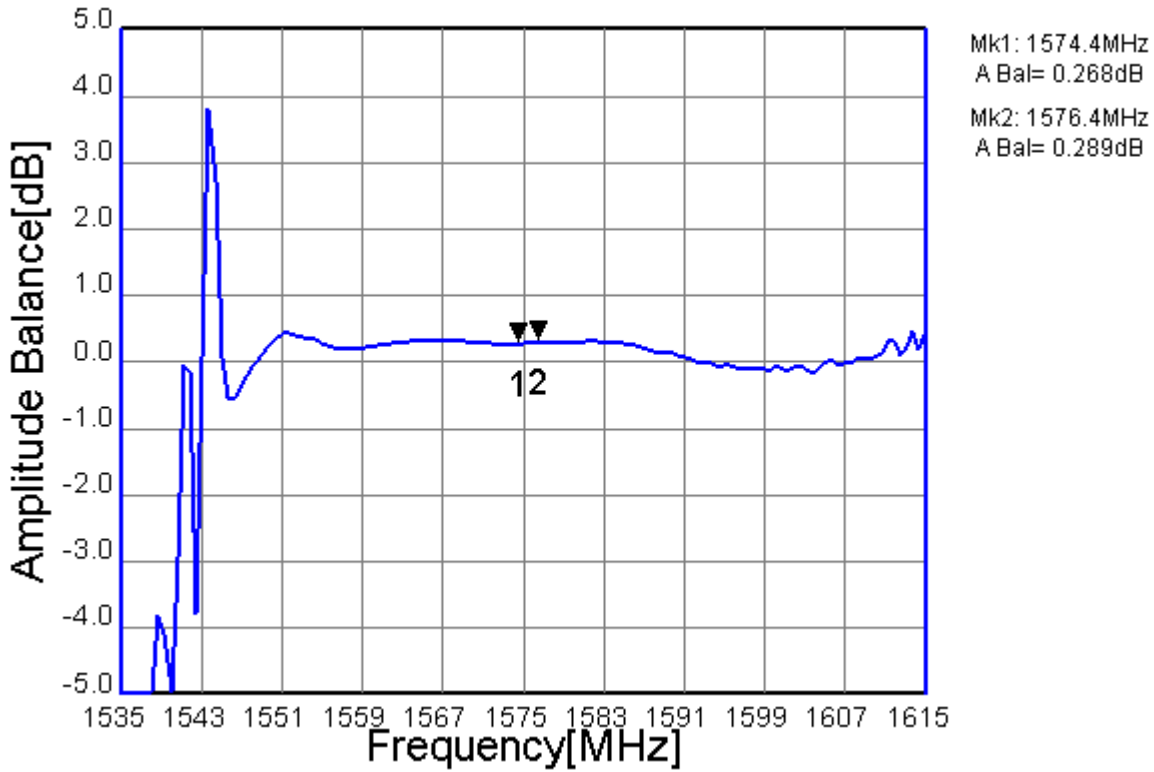


**Fig.5 Input Impedance**

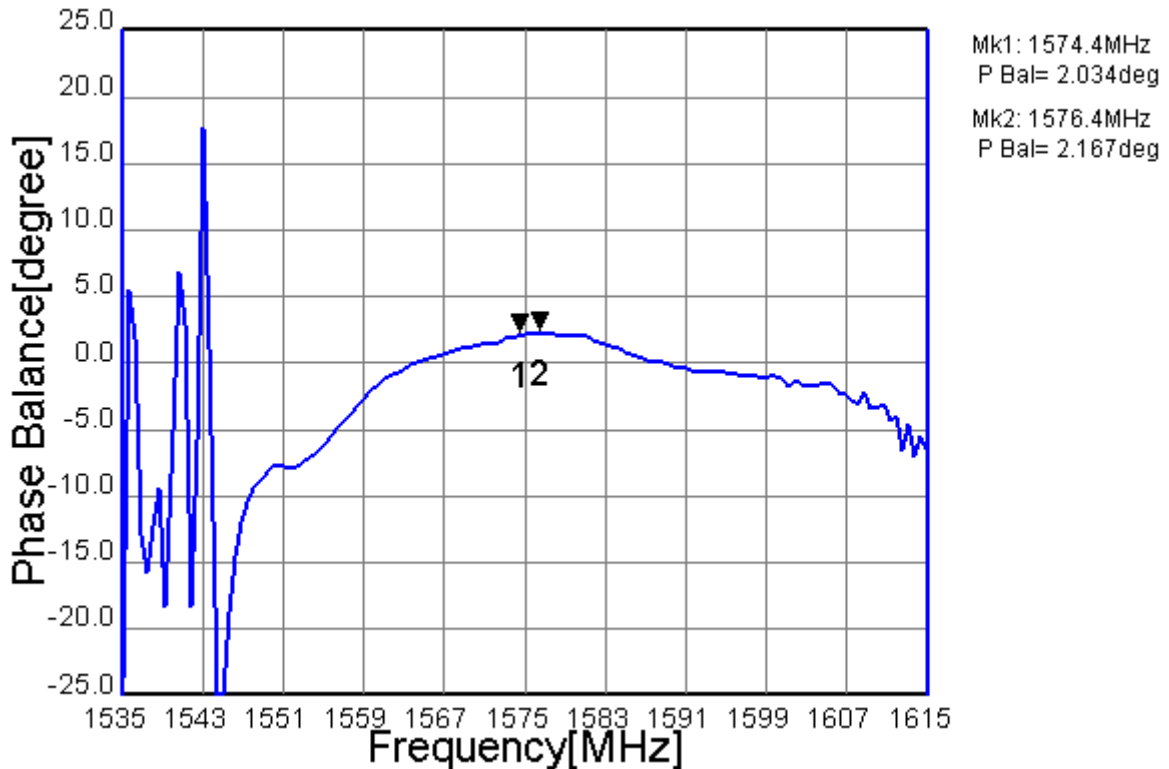


**Fig.6 Output Impedance**

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**Fig.7 Amplitude Balance**



**Fig.8 Phase Balance**