



*Pb Free part

Customer Name	Standard Specifications	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band7 Rx (50/100ohm Balance)	DATE	Mar. 1, 2012
Part Number	FAR-F6KY-2G6550-B4UN	Version 3.1c	Final

Table 1 Electrical Specification

Passband :2620 ~ 2690 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	2620 - 2690	-	2.8	3.6	dB(*1)	
Ripple in passband	2620 - 2690	-	0.9	1.7	dB	
Absolute attenuation	50 - 2500	40	50	-	dB	
	2500 - 2570	50	54	-	dB	
	2750 - 3000	20	40	-	dB	
	3000 - 4000	40	51	-	dB	
	4000 - 6000	30	57	-	dB	
VSWR(Input)	2620 - 2690	-	1.6	2.0	-	
VSWR(Output)	2620 - 2690	-	1.6	2.1	-	
Amplitude balance (S21/S31)	2620 - 2690	-1.5	-0.7/+0.7	+1.5	dB	
Phase balance ((ϕ S21- ϕ S31)+180)	2620 - 2690	-12	-3/+5	+12	deg.	
Input Impedance	Unbalanced	-	50	-	ohm	
Output Impedance	Balanced	-	100//36nH	-	ohm	
Operating temperature	-30~+85				°C	
Device size	1.4typ. x 1.0typ. x 0.5max.				mm	

(*1):Specification of insertion loss includes loss that comes from the test board.(0.15dB)

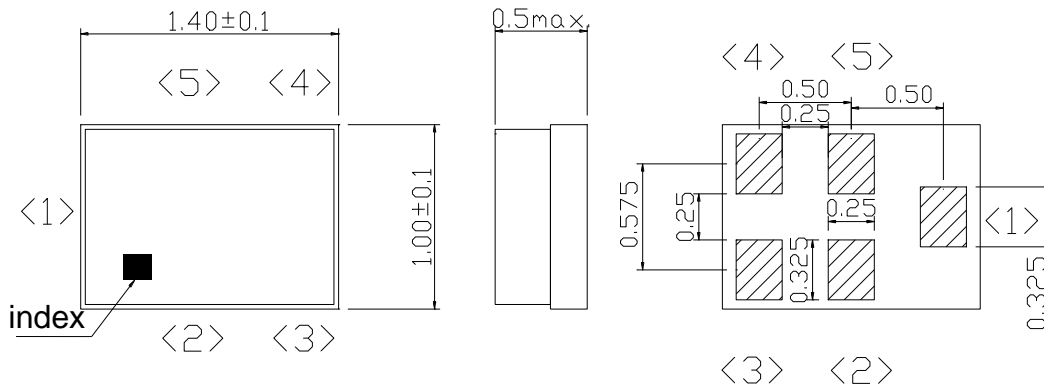


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Dimension

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

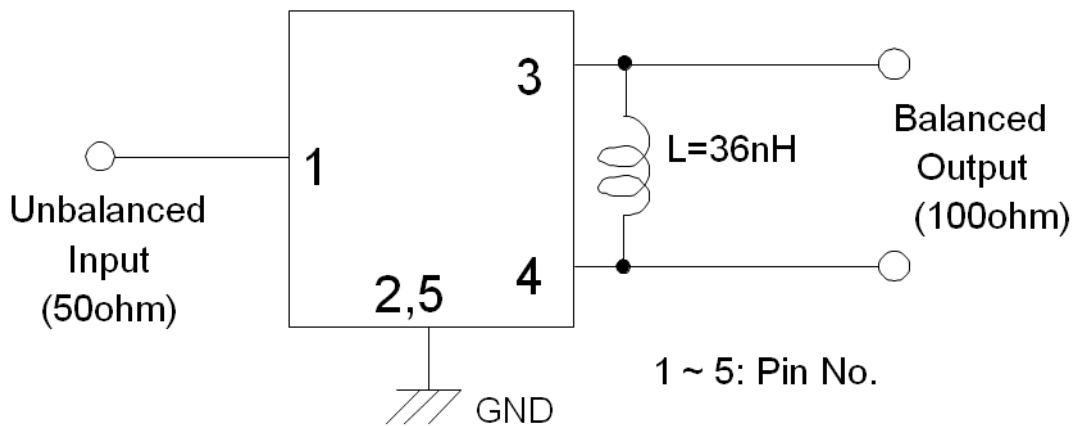


Unit: mm

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





RoHS MSL1

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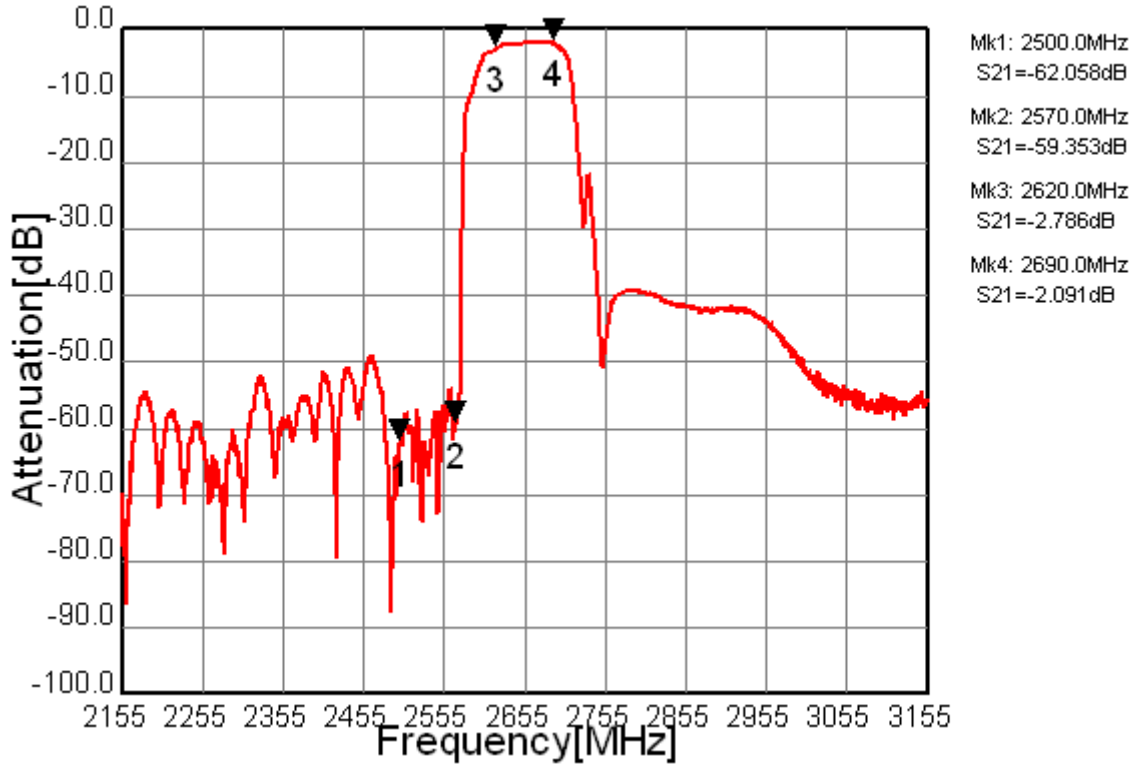


Fig.1 Pass-band Characteristics

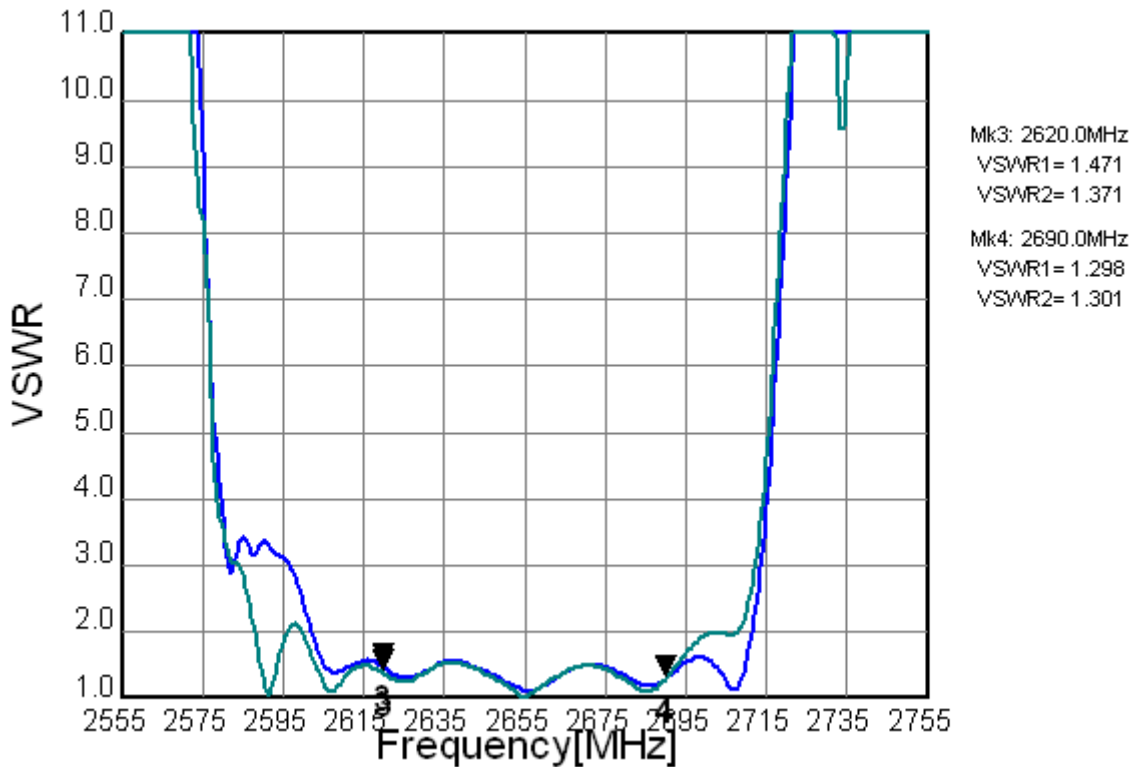


Fig.2 VSWR

— Input
— Output



RoHS MSL1

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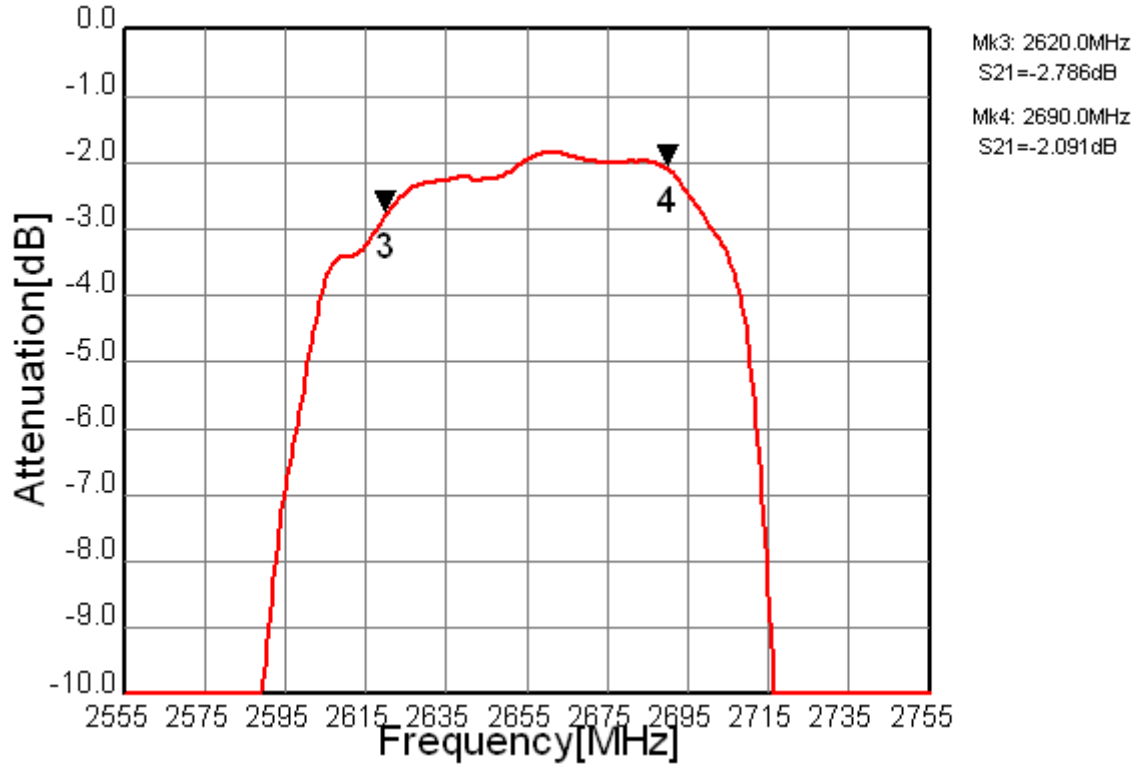


Fig.3 In-band Characteristics

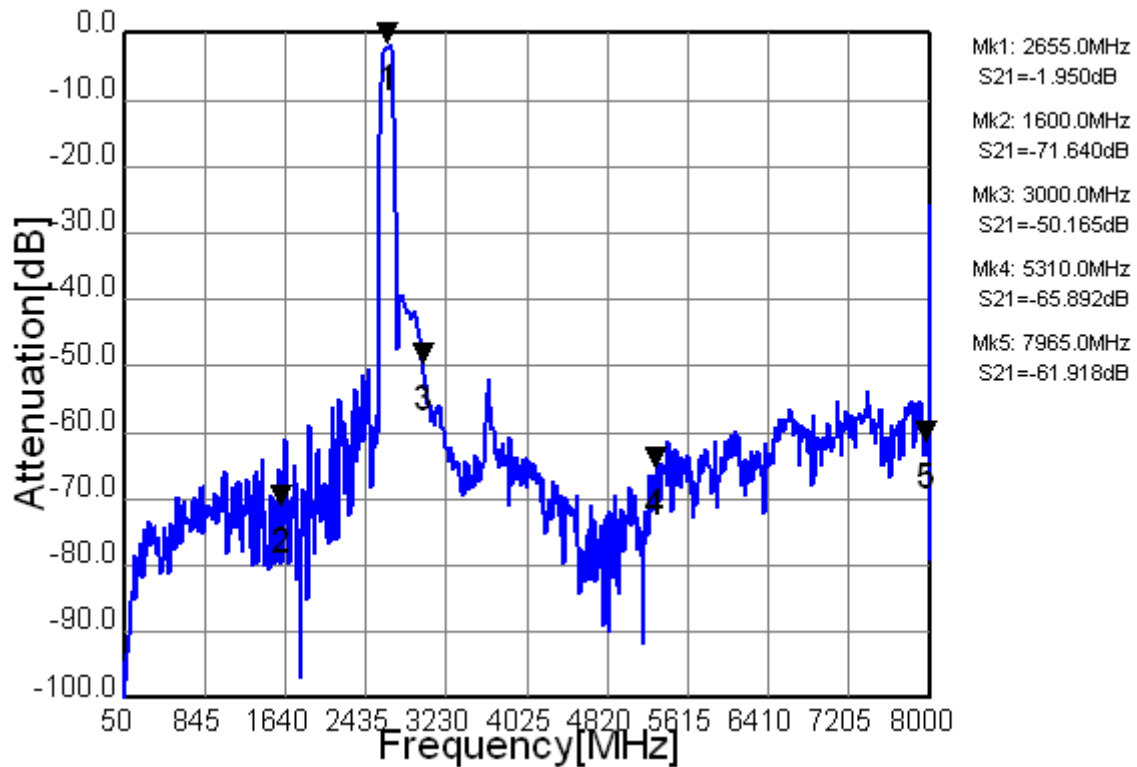


Fig.4 Wide-band Characteristics



RoHS MSL1

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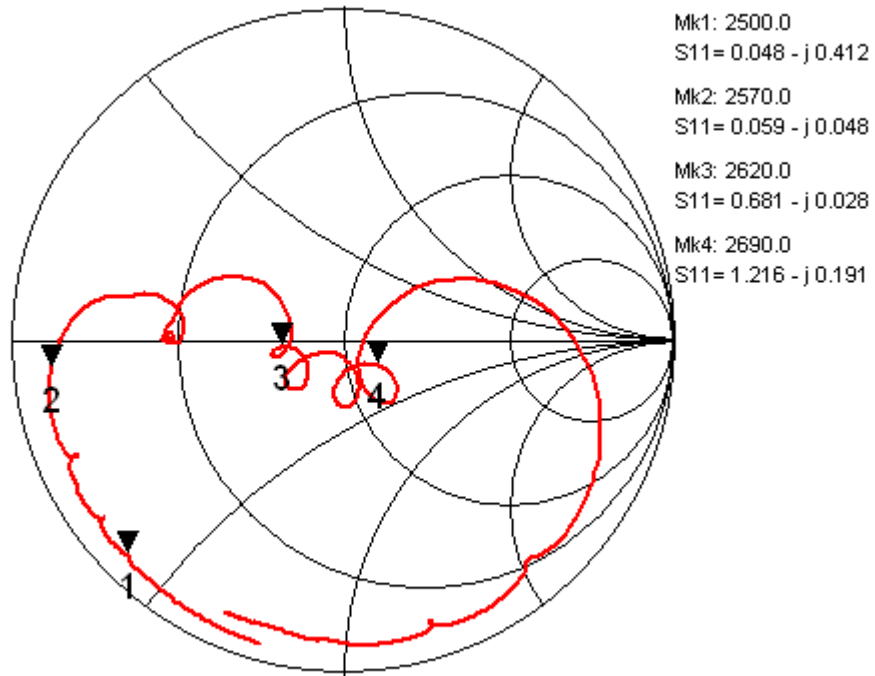


Fig.5 Input impedance

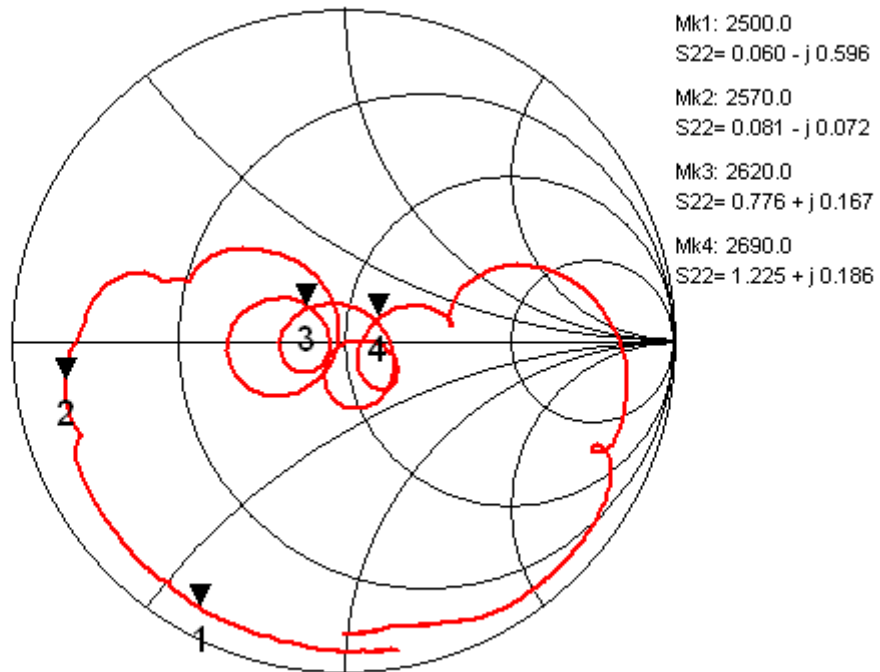


Fig.6 Output impedance



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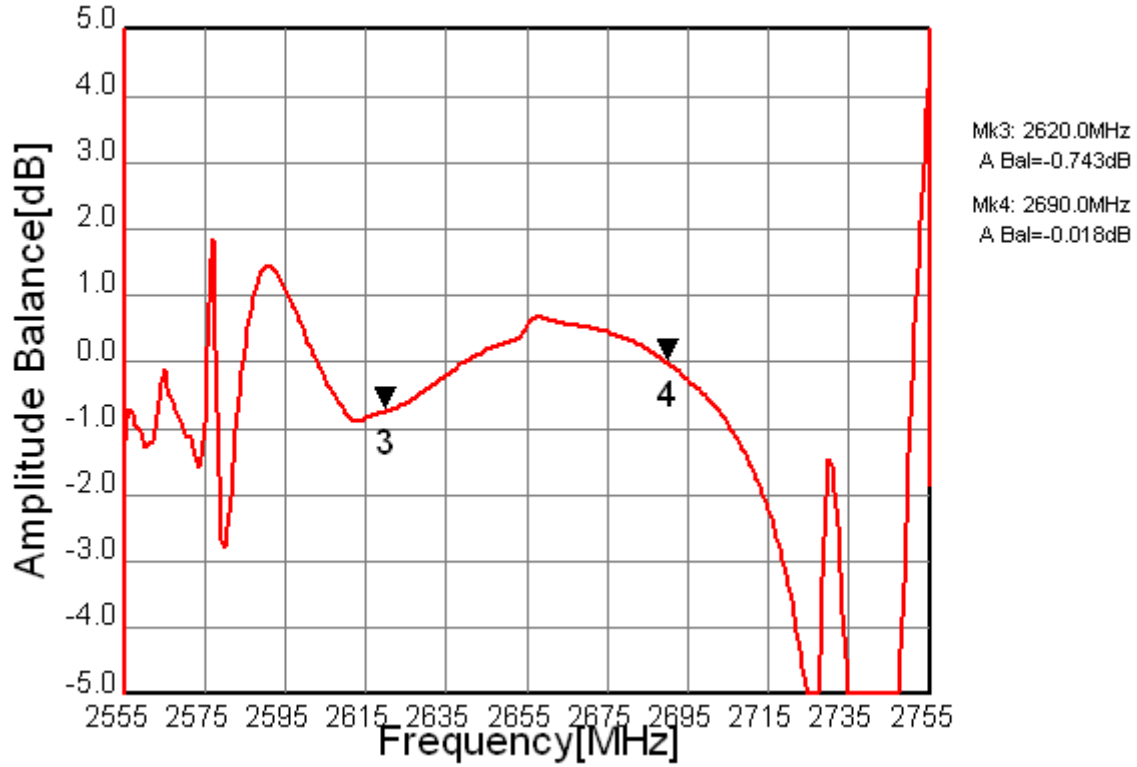


Fig.7 Amplitude Balance

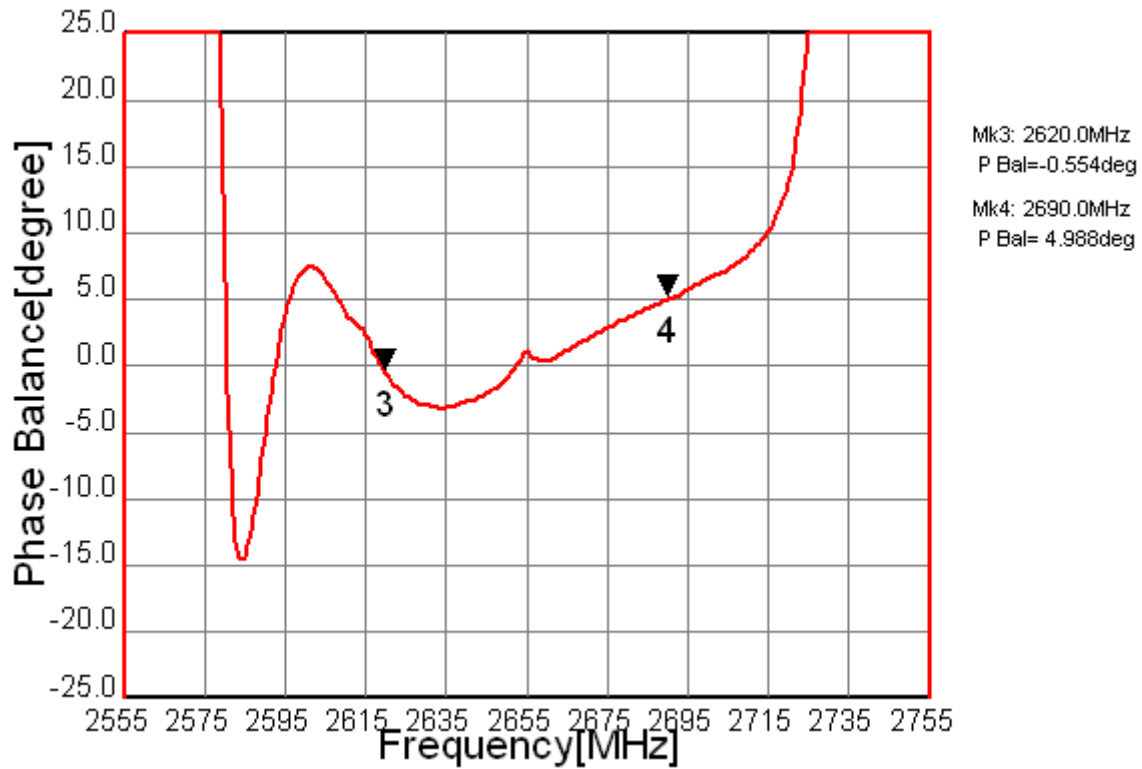


Fig.8 Phase Balance



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