



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	BandVIII Rx	Date	March 31, 2010
Part Number	FAR-F5KY-942M50-B4UW	Version 3.1c	

Table 1 Filter1 Electrical Specification

Parameter	Condition (MHz)	Specification			Unit	Remarks
		Ver.3.1c				
		Min.	Typ.	Max.		
Insertion Loss	925 - 960	-	2.0	3.0	dB	@927.4 - 957.6MHz
Amplitude ripple	925 - 960	-	0.7	2	dB	@927.4 - 957.6MHz
Input VSWR	925 - 960	-	1.8	<u>2.2</u>	dB	@927.4 - 957.6MHz
Output VSWR	925 - 960	-	1.9	<u>2.2</u>	dB	@927.4 - 957.6MHz
Attenuation	10 - 880	50	67	-	dB	
	880 – 915	51	57	-	dB	@882.4-912.6MHz
	1045 - 1750	40	57	-	dB	
	1750 - 4810	<u>35</u>	57	-	dB	
Amplitude Balance (S21/S31)	925 - 960	-1	-0.3/ +0.2	+1	dB	@927.4 - 957.6MHz
Phase Balance (($\angle$ S21- $\angle$ S31)+180)	925 - 960	<u>-10</u>	-3/+2	<u>+10</u>	deg.	@927.4 - 957.6MHz
Operating temperature range		-30~ +85			℃	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100			ohm	



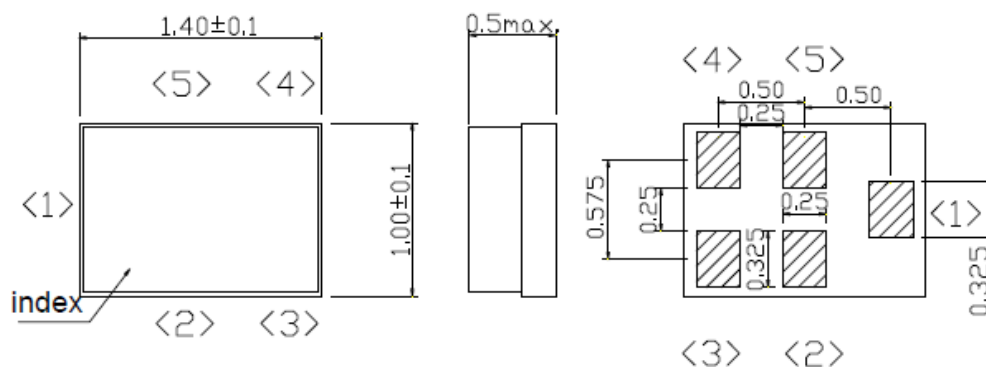
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Dimensions

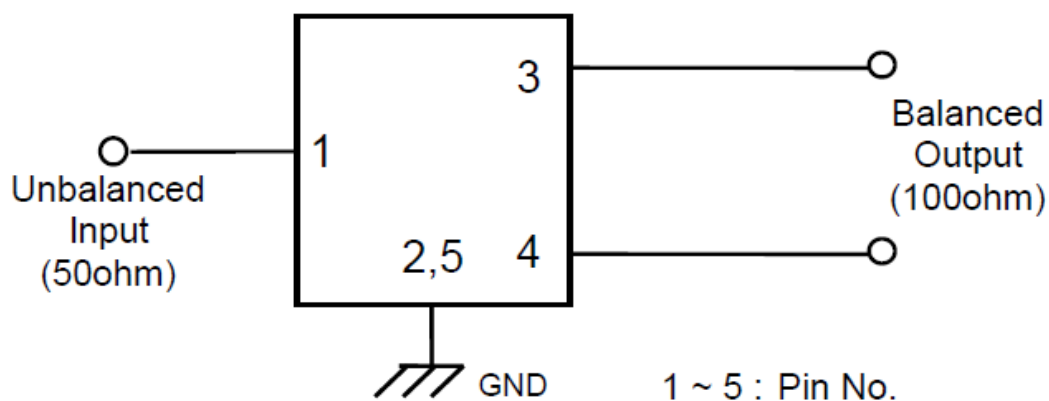
Device size: 1.4mmtyp. x 1.0mmtyp. x 0.5mmmax.



Unit : mm

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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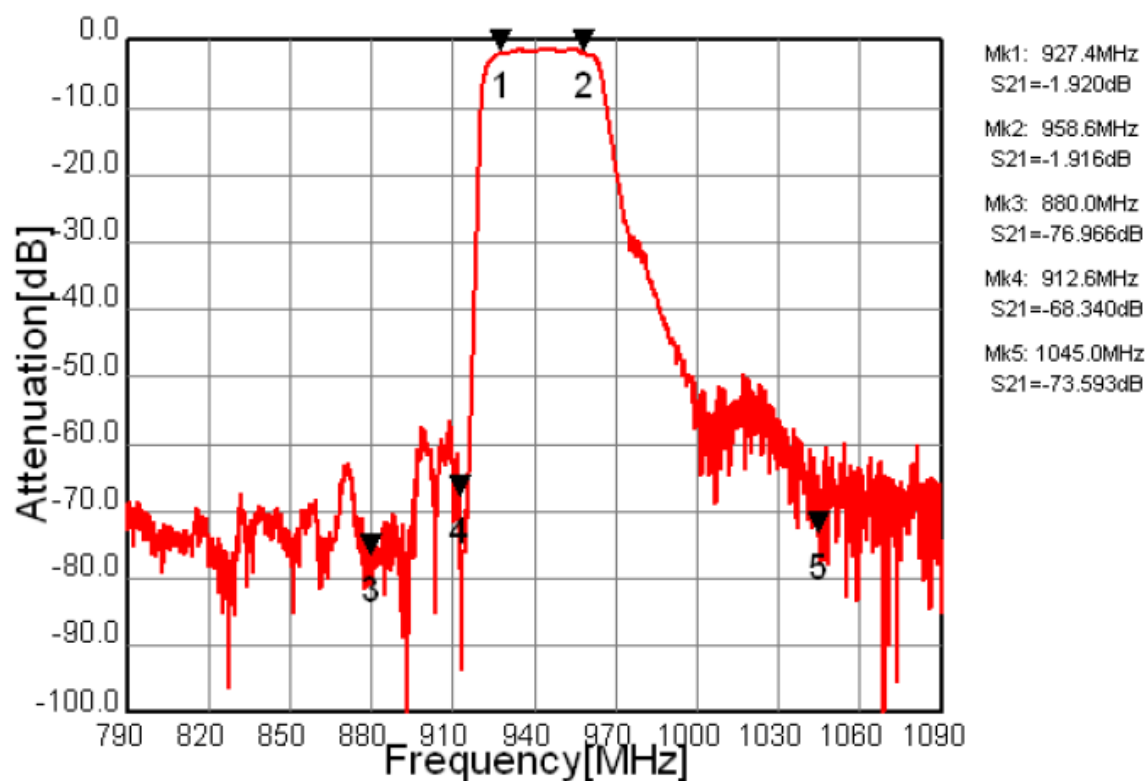


Fig.1 Pass-band Characteristic

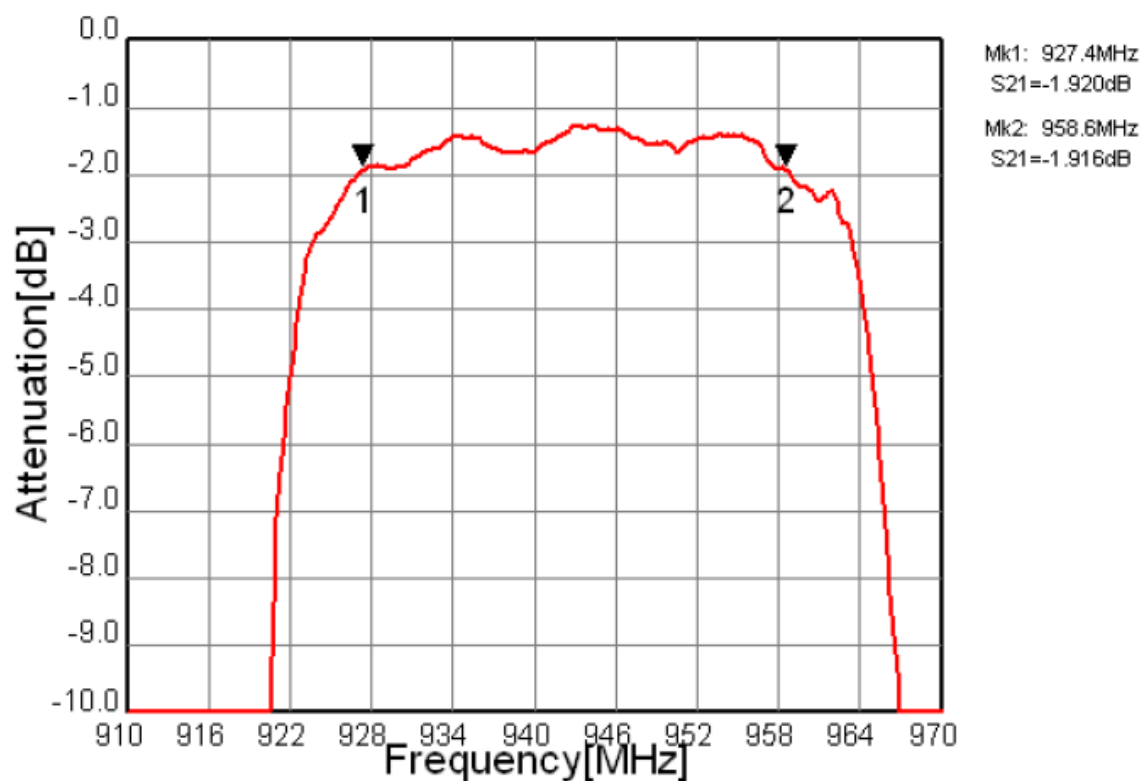


Fig.2 In-band Characteristic

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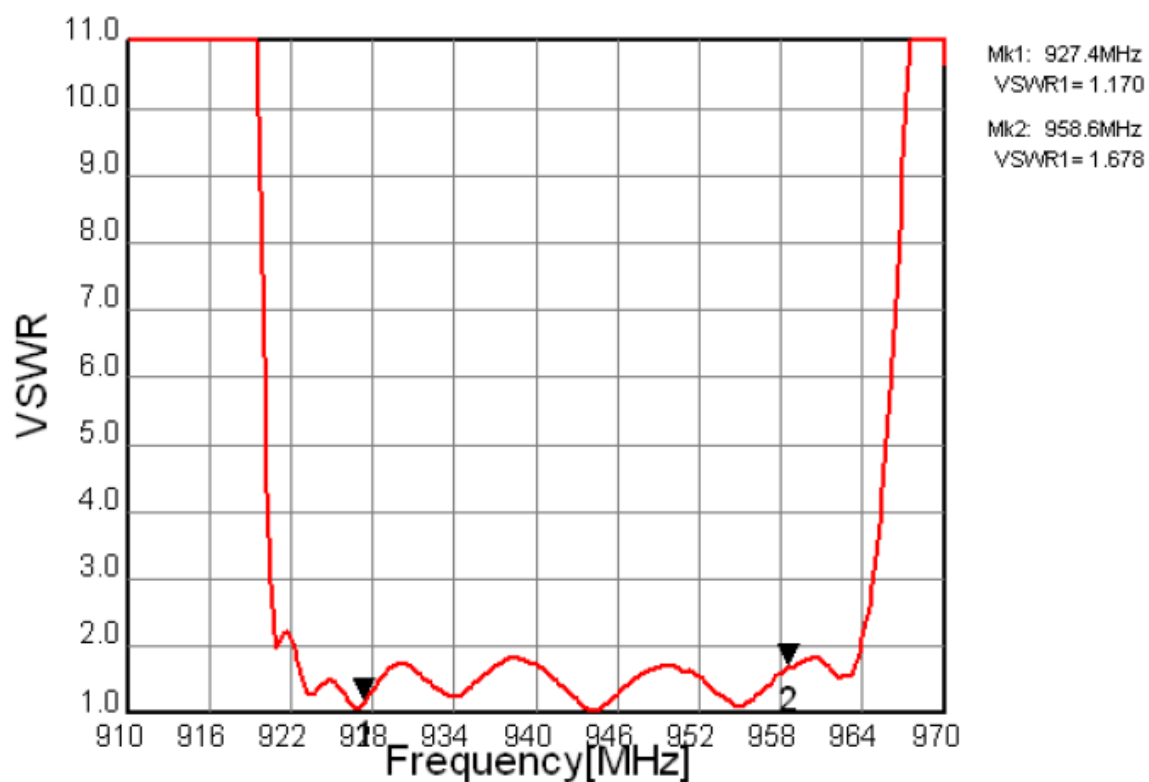


Fig.3 VSWR (INPUT)

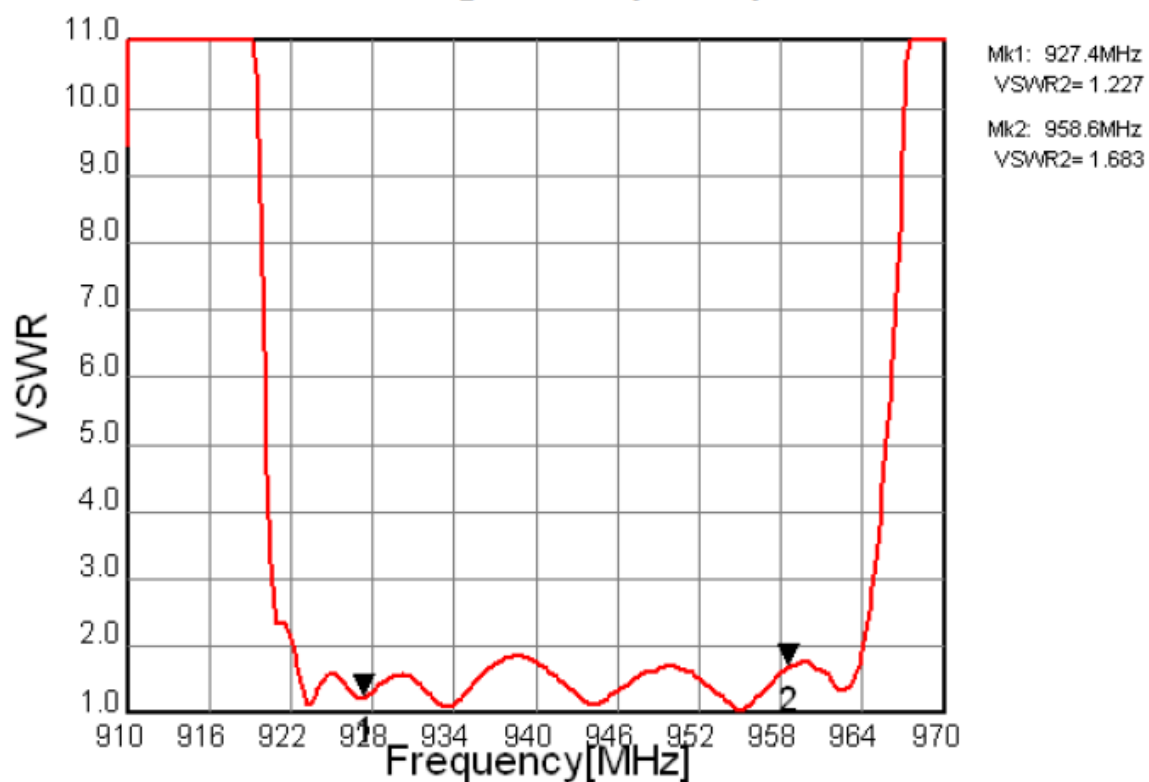


Fig.4 VSWR (OUTPUT)

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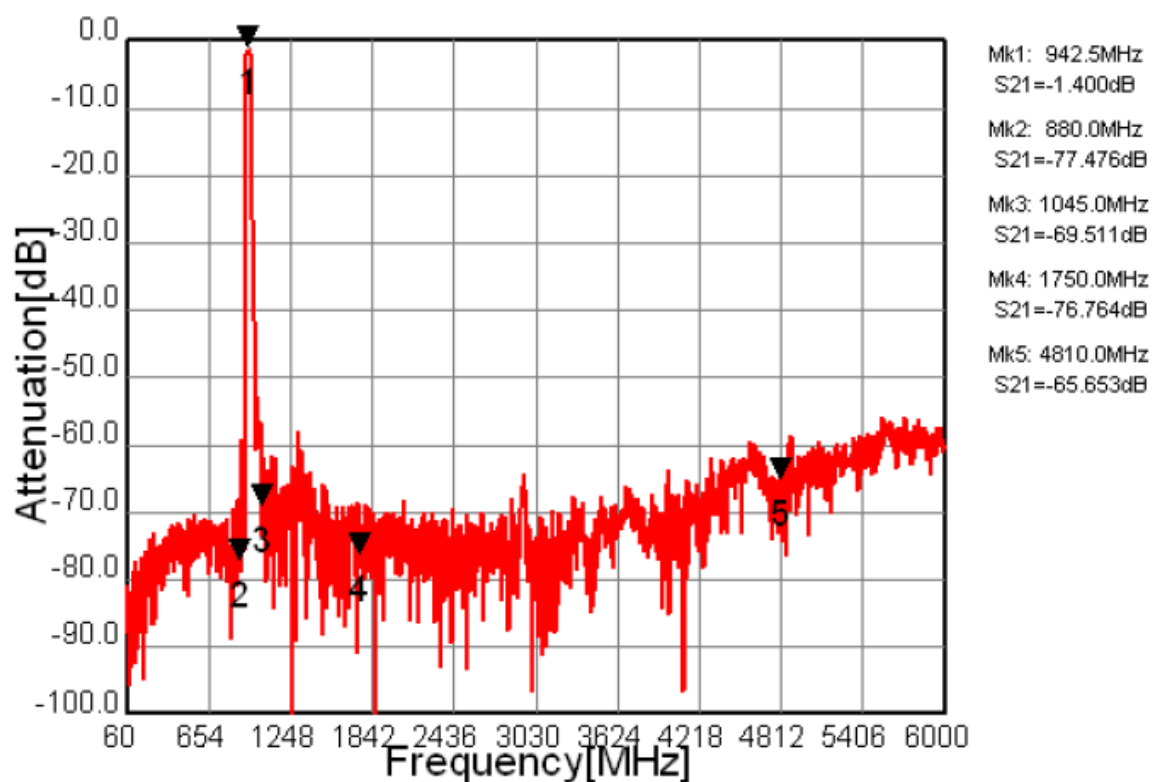


Fig.5 Wide-band Characteristic



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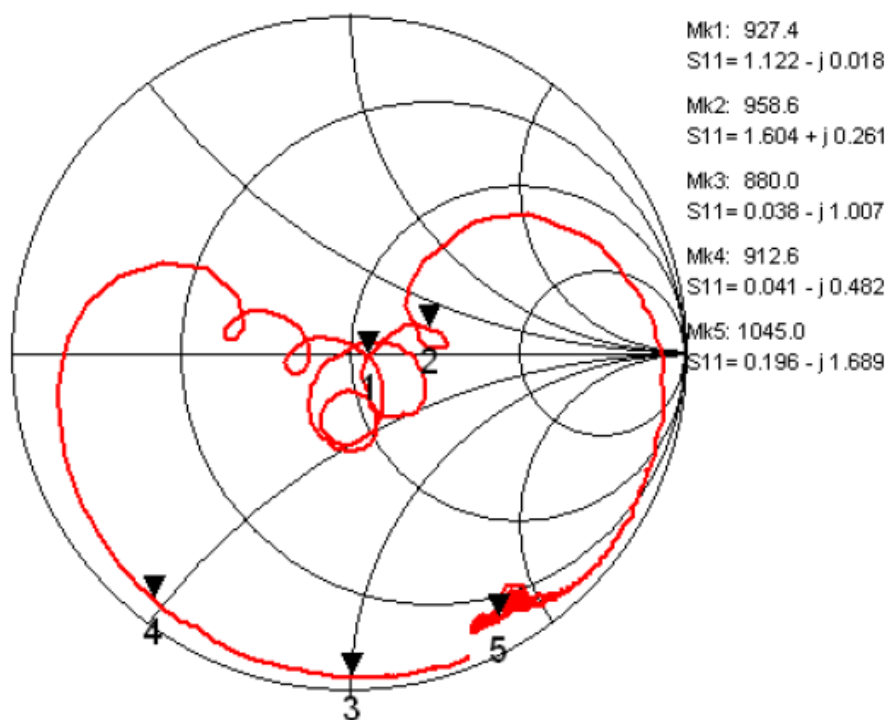


Fig.6 Impedance (Input)

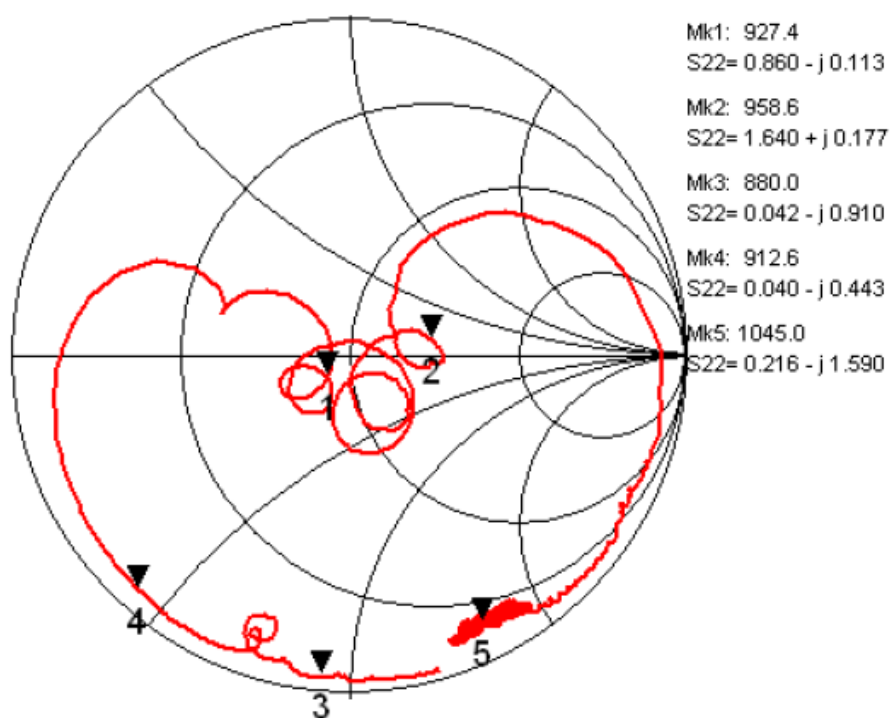


Fig.7 Impedance (Output)

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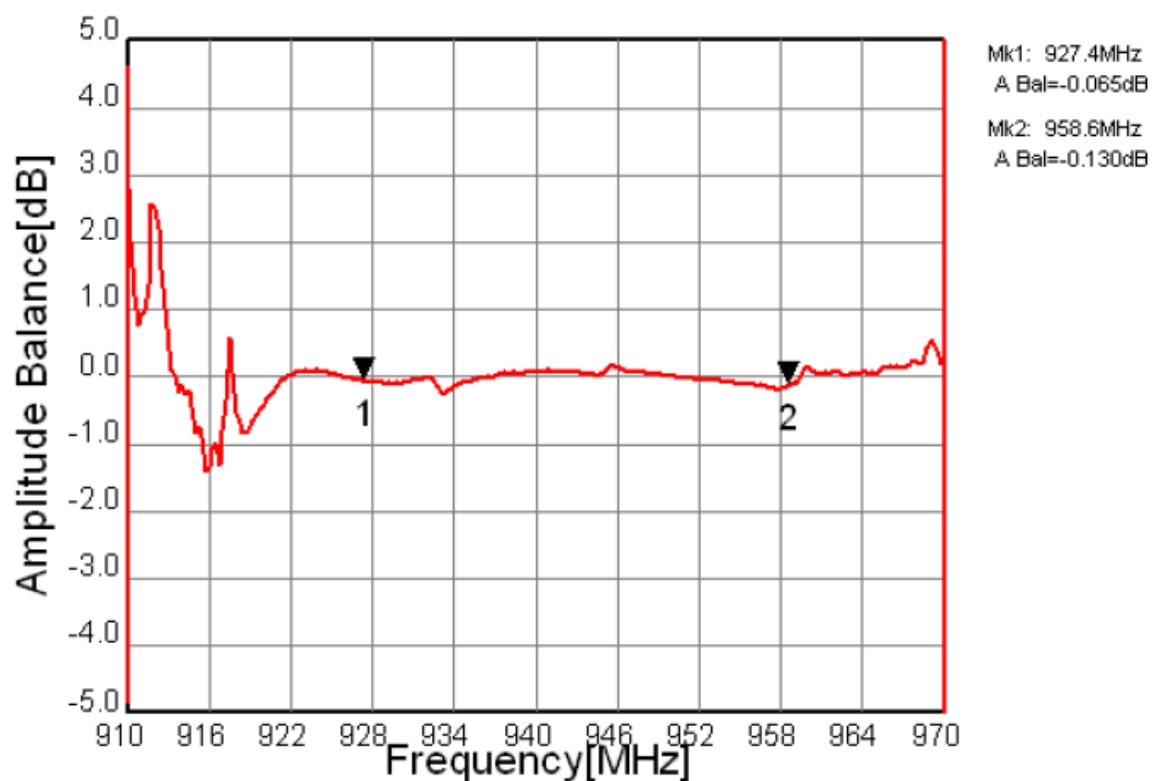


Fig.8 Amplitude balance

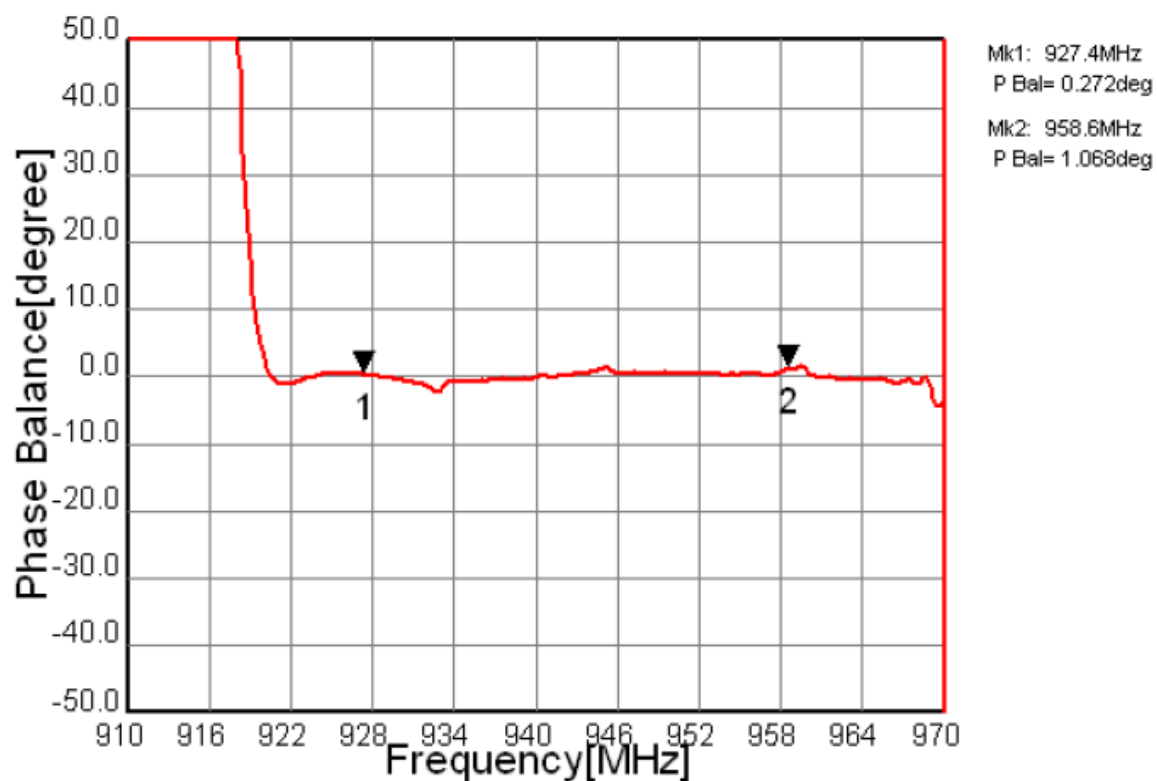


Fig.9 Phase balance

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