



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	WCDMA-Tx(100/50)	Date	March 31, 2010
Part Number	FAR-F6KB-1G9500-B4GJ	Version 1.0a	

Table 1 Electrical Specification

Parameter	Condition /MHz	Specification				Remarks
		Min.	Typ.	Max.	Unit	
Insertion Loss	1920-1980	-	2.1	3.0	dB	
Ripple	1920-1980	-	0.7	2.0	dB	
Attenuation	2110~ 2170	30	34	-	dB	
	3840~ 3960	20	46	-	dB	
	5760~ 5940	18	42	-	dB	
Input VSWR(bal)	1920-1980	-	2.1	2.5	-	
Output VSWR(unbal)	1920-1980	-	2.1	2.5	-	
Amplitude balance (S21/S31)	1920-1980	-2.0	-1.3/+1.0	+2.0	dB	
Phase balance (∠S21-∠S31)+180)	1920-1980	-10	-0.0/+4.0	+10	deg.	
Input Impedance	Balanced	100//18nH			ohm	
Output Impedance	Unbalanced	50			ohm	
Operating temperature		-30 ~ +85			°C	
Device size		1.4typ.x1.0typ. x0.5max.			mm	



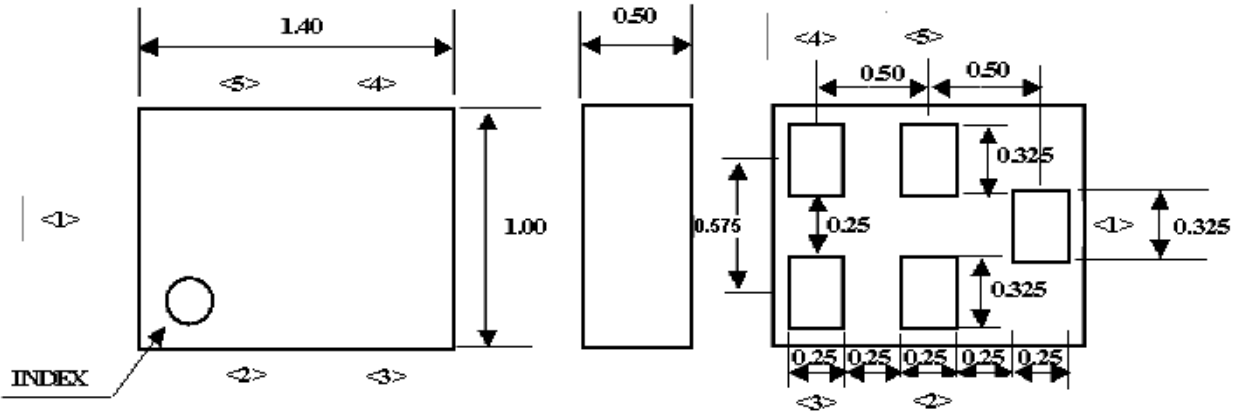
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Dimensions

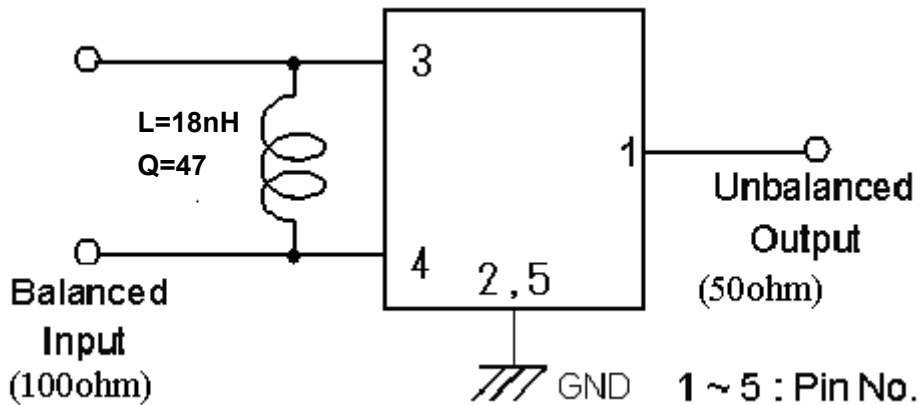
Device size: 1.4typ. x 1.0typ. x 0.5max.



Pin Configuration

Pin No.	Pin name	Description
1	OUT	Unbalanced pin
2	GND	Ground
3	IN	Balanced pin
4	IN	Balanced pin
5	GND	Ground

Evaluation Circuit





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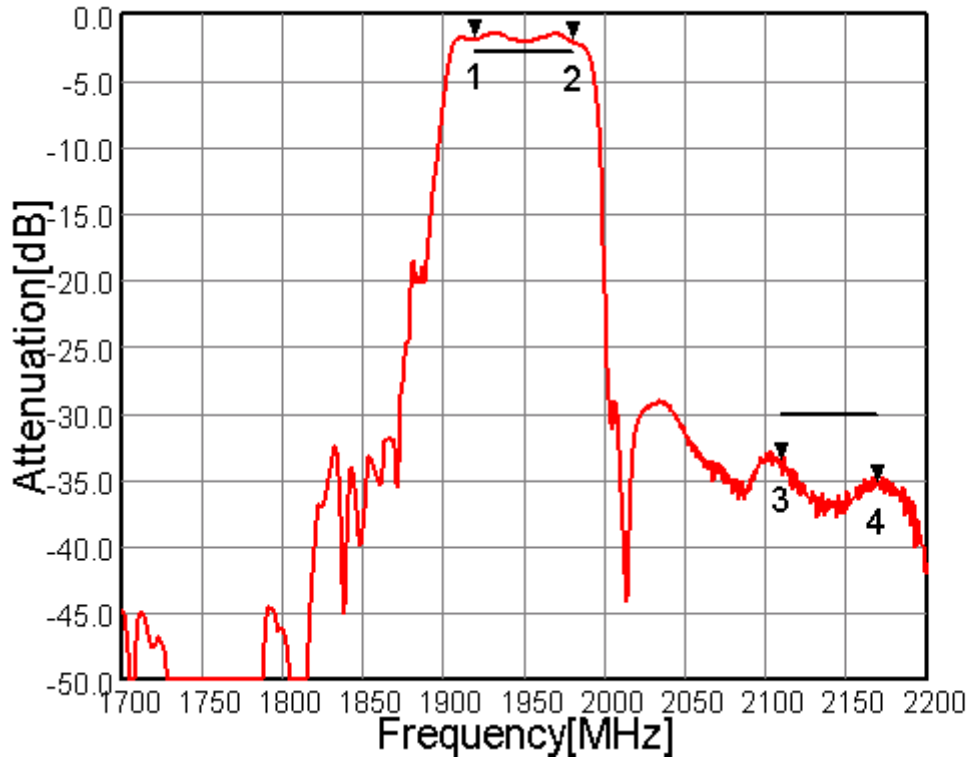


Fig.1 Pass-band Characteristics

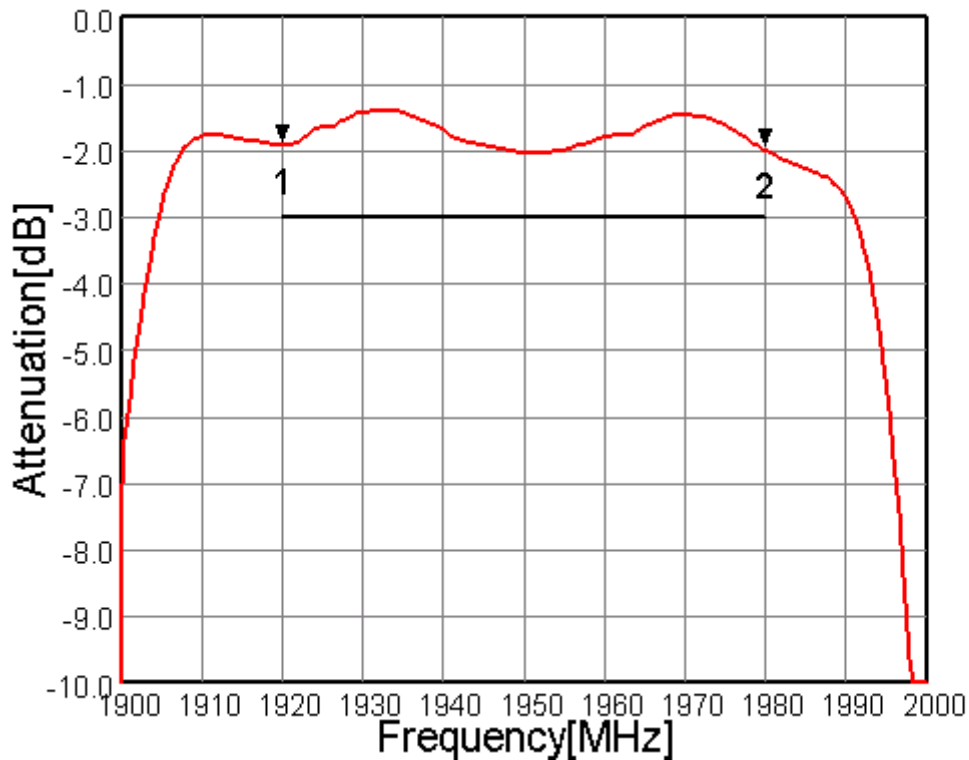


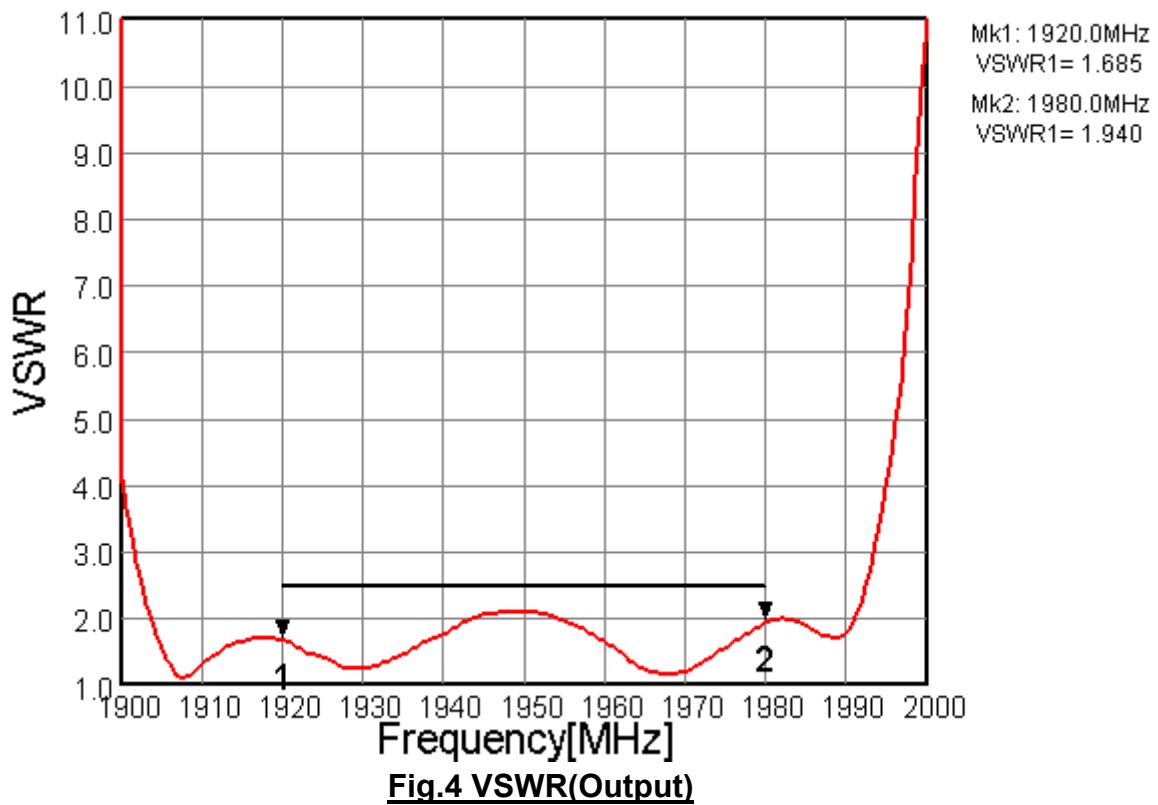
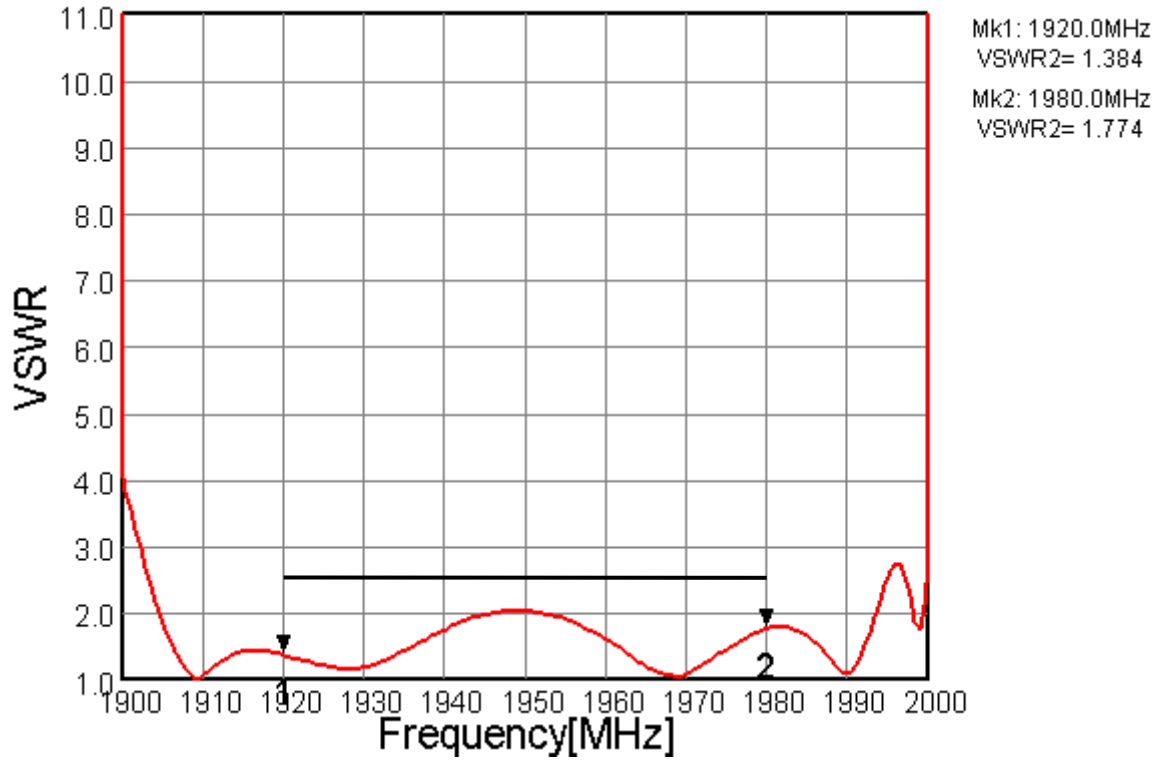
Fig.2 In-band Characteristics



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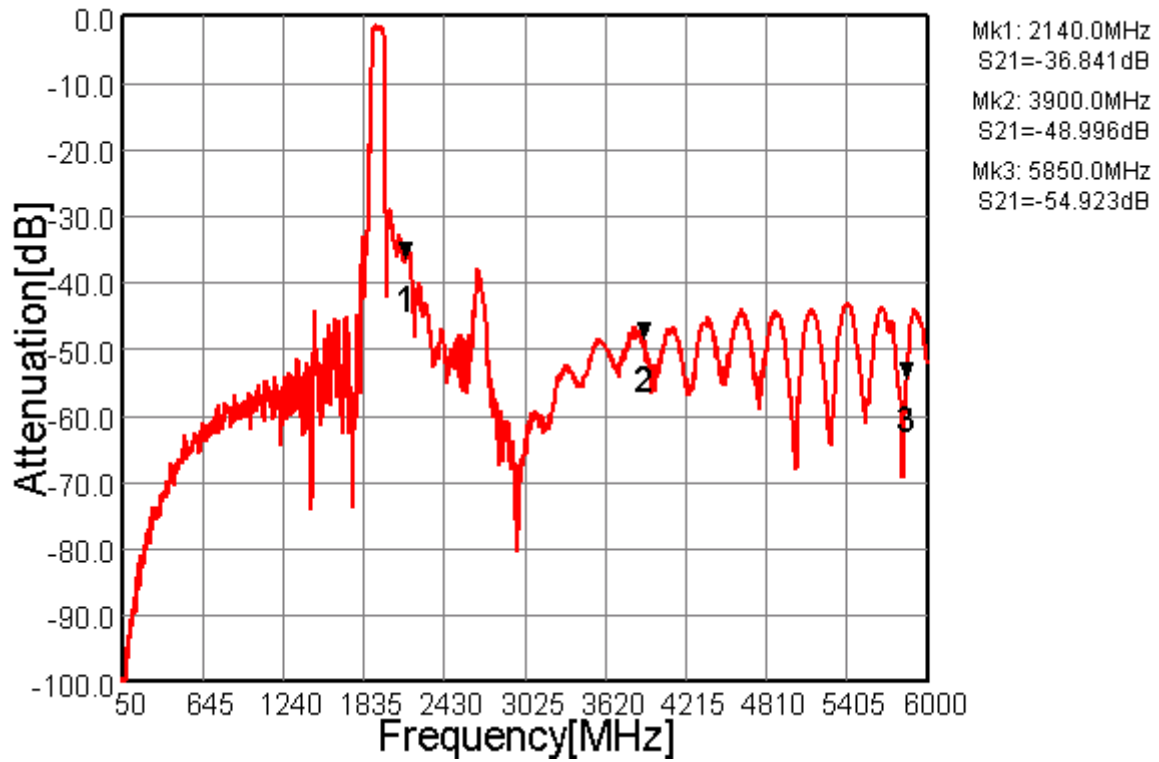


Fig.5 Wide-band Characteristics



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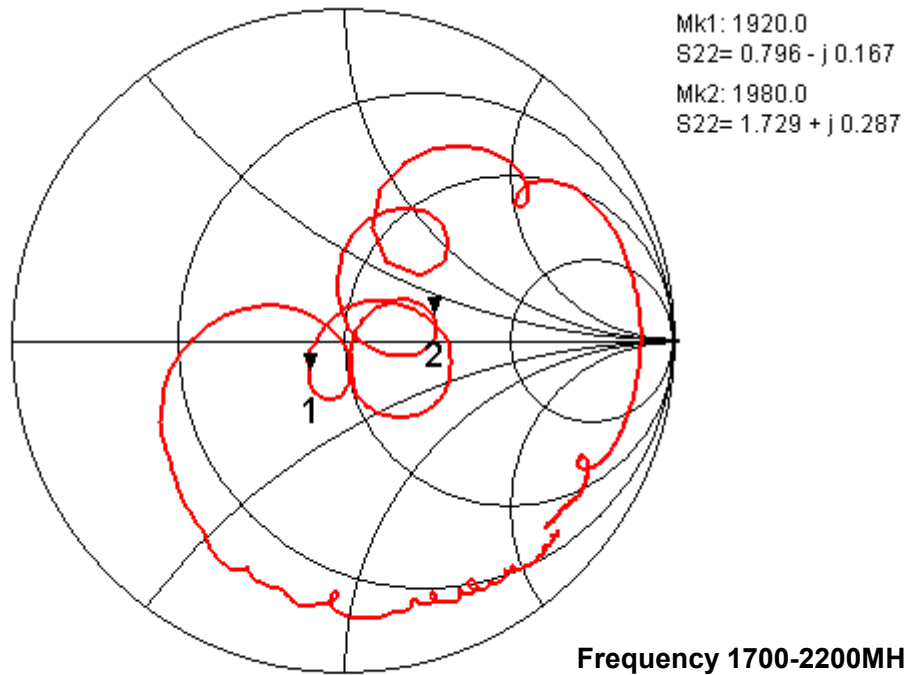


Fig.6 Impedance (Input)

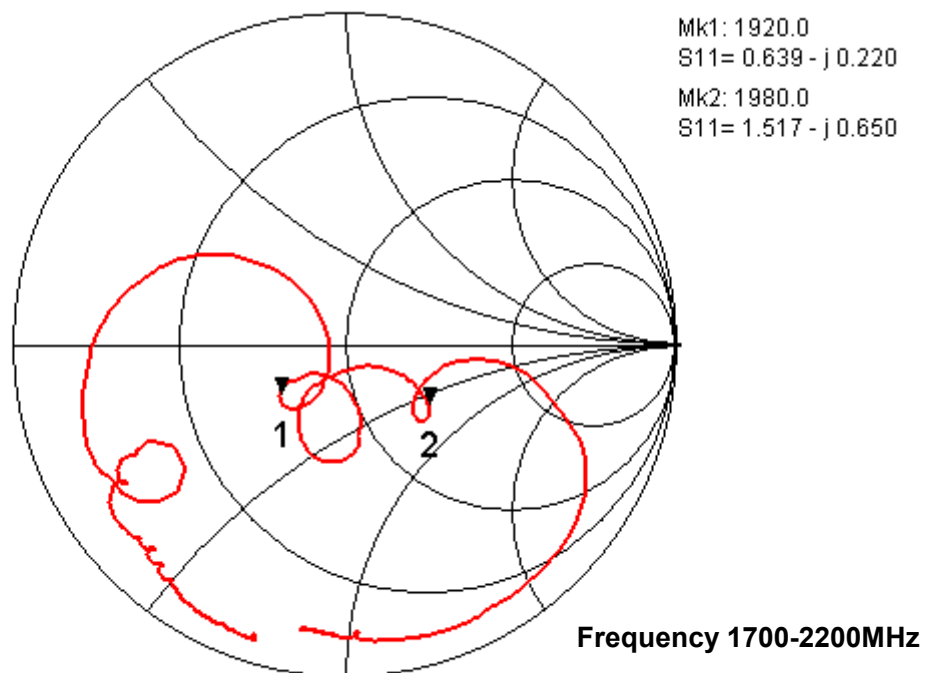


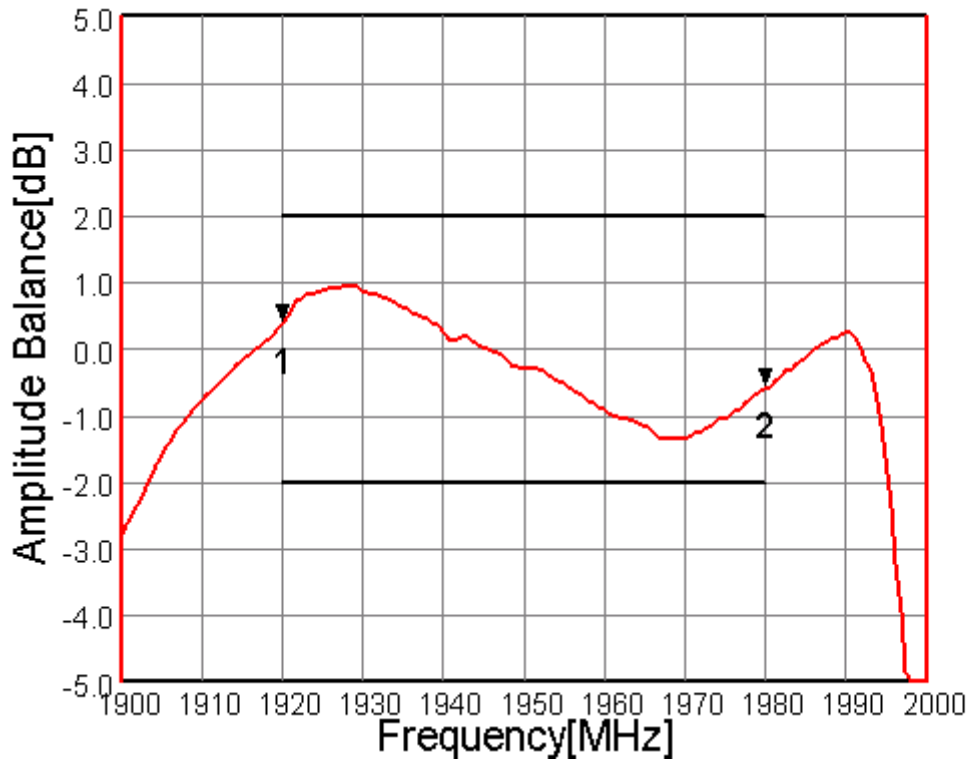
Fig.7 Impedance (Output)



MSL1

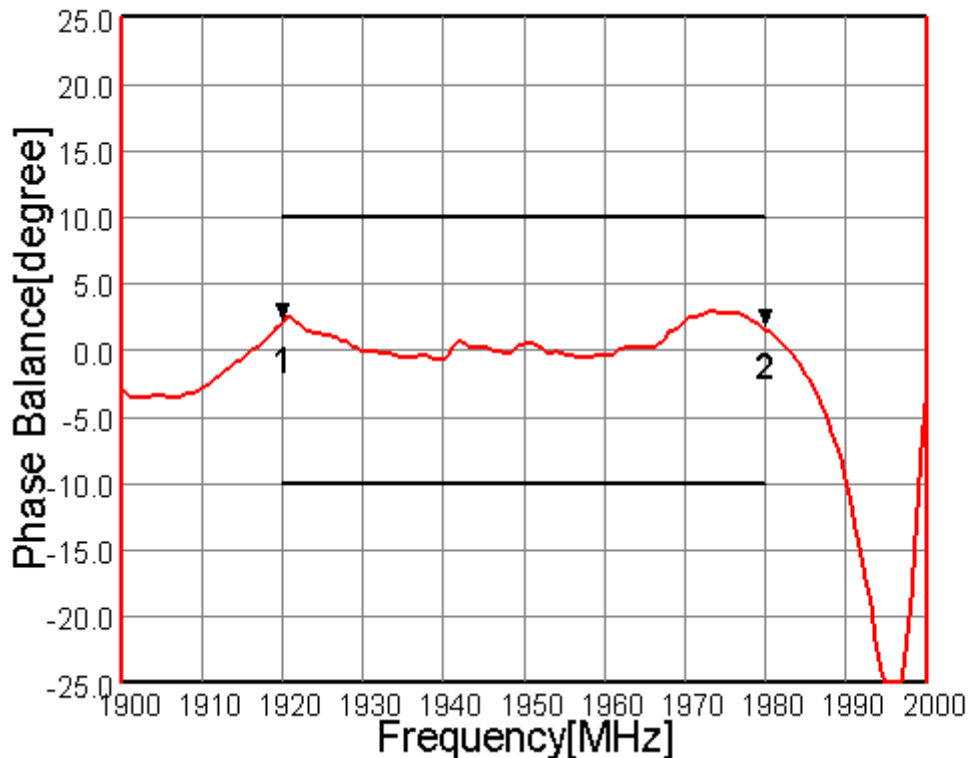
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Mk1: 1920.0MHz
 A Bal= 0.365dB
 Mk2: 1980.0MHz
 A Bal=-0.589dB

Fig.8 Amplitude Balance



Mk1: 1920.0MHz
 P Bal= 1.962deg
 Mk2: 1980.0MHz
 P Bal= 1.596deg

Fig.9 Phase Balance

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