



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band 2-Rx	DATE	July 29, 2013
Part Number	F6QG1G960P2KT	Version 1.1aA	Final

Table 1 Electrical Specification

Passband : 1930 – 1990 MHz						
Parameter	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss(*1)	1930 – 1990	-	2.8	3.7	dB	@1930.6-1989.4MHz
		-	-	4.0	dB	
Amplitude ripple	1930 – 1990	-	1.3	2.3	dB	@1930.6-1989.4MHz
		-	-	2.6	dB	
Input VSWR	1930 – 1990	-	1.8	2.2	-	
Output VSWR	1930 – 1990	-	1.8	2.3	-	
Attenuation	10 – 1850	40	51	-	dB	
	824 – 849	50	62	-	dB	
	1850 – 1910	40	44	-	dB	
	2020-2070	15	20	-	dB	
	2070-6000	35	42	-	dB	
Amplitude balance (S21/S31)	1930 – 1990	-1.8	-1.0~ +1.3	+1.8	dB	
Phase balance ($\angle S21 - \angle S31 + 180$)	1930 – 1990	-15	-10~+5	15	deg.	
Operating temperature range		-30~ +85			°C	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100 // 27nH			ohm	

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



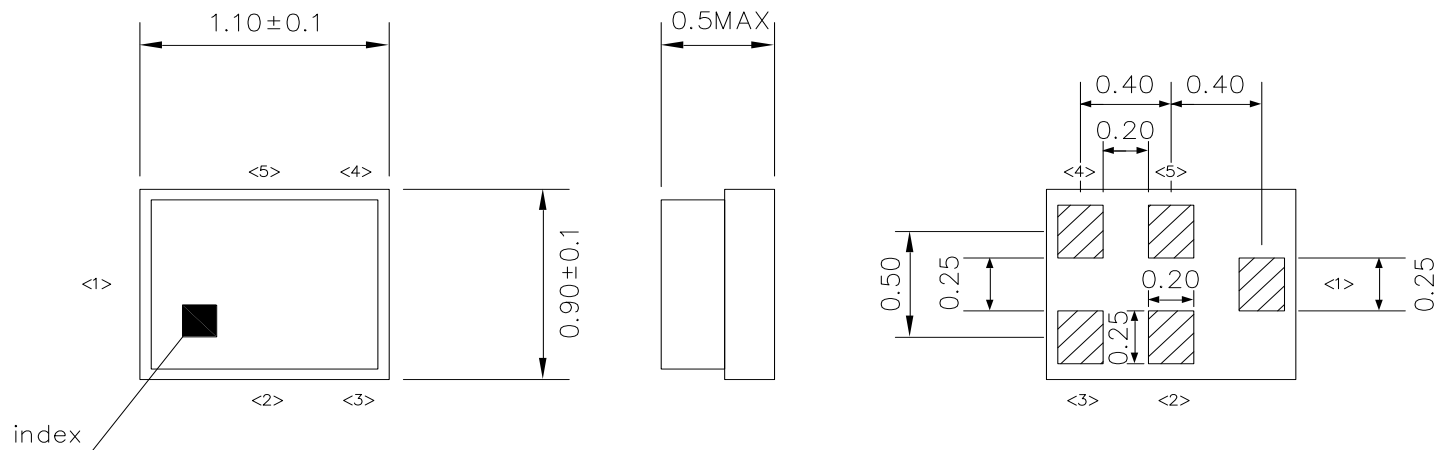
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Dimensions

Device size: 1.1typ. x 0.9typ. x 0.5max.

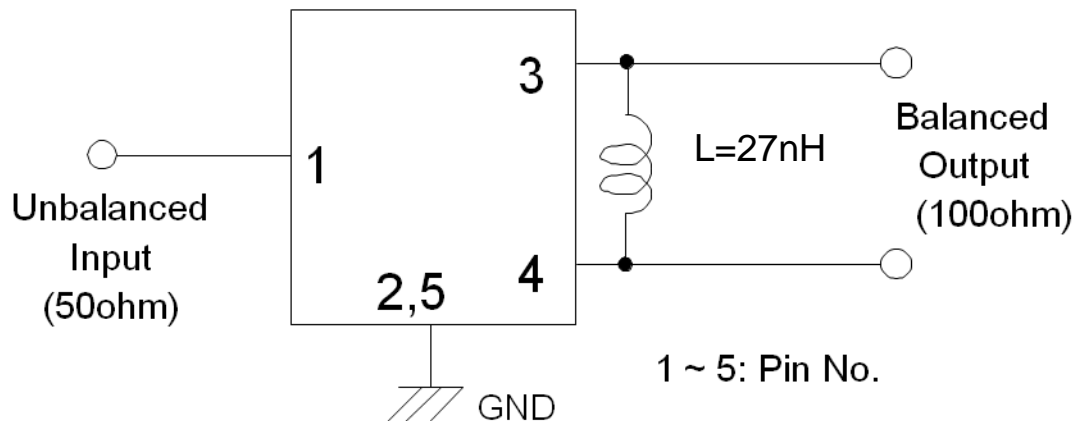


Unit : mm

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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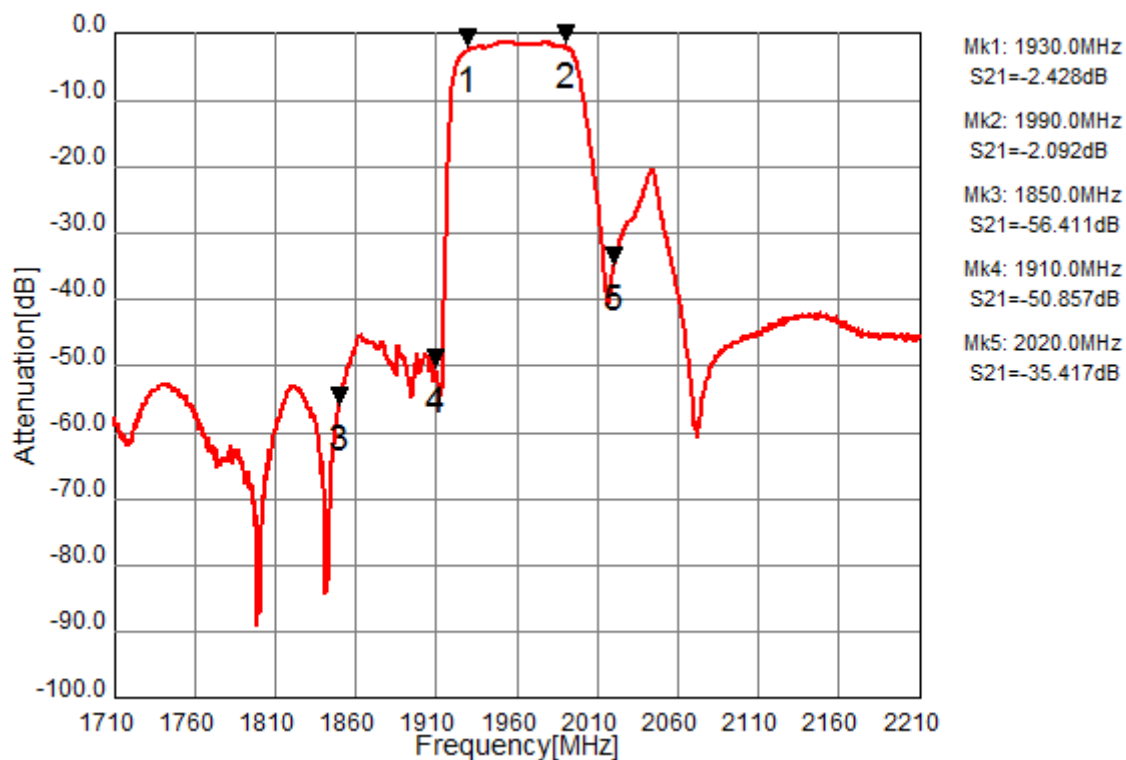


Fig.1 Pass-band Characteristic

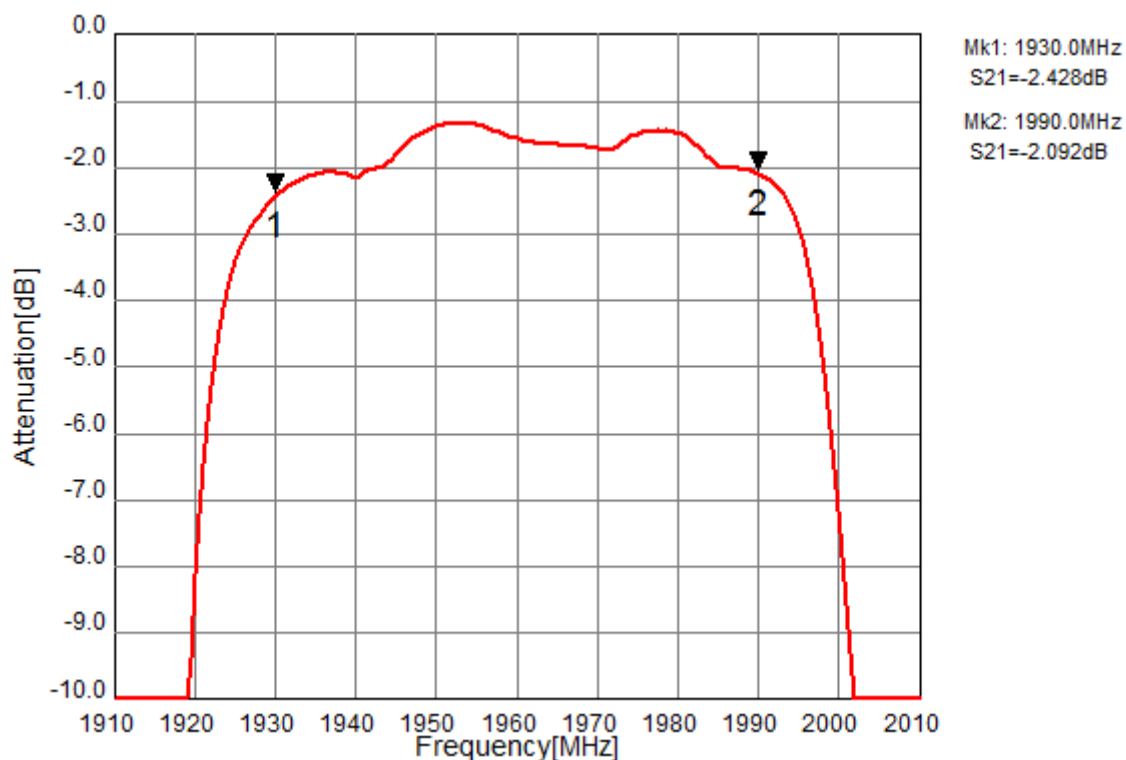


Fig.2 In-band Characteristic

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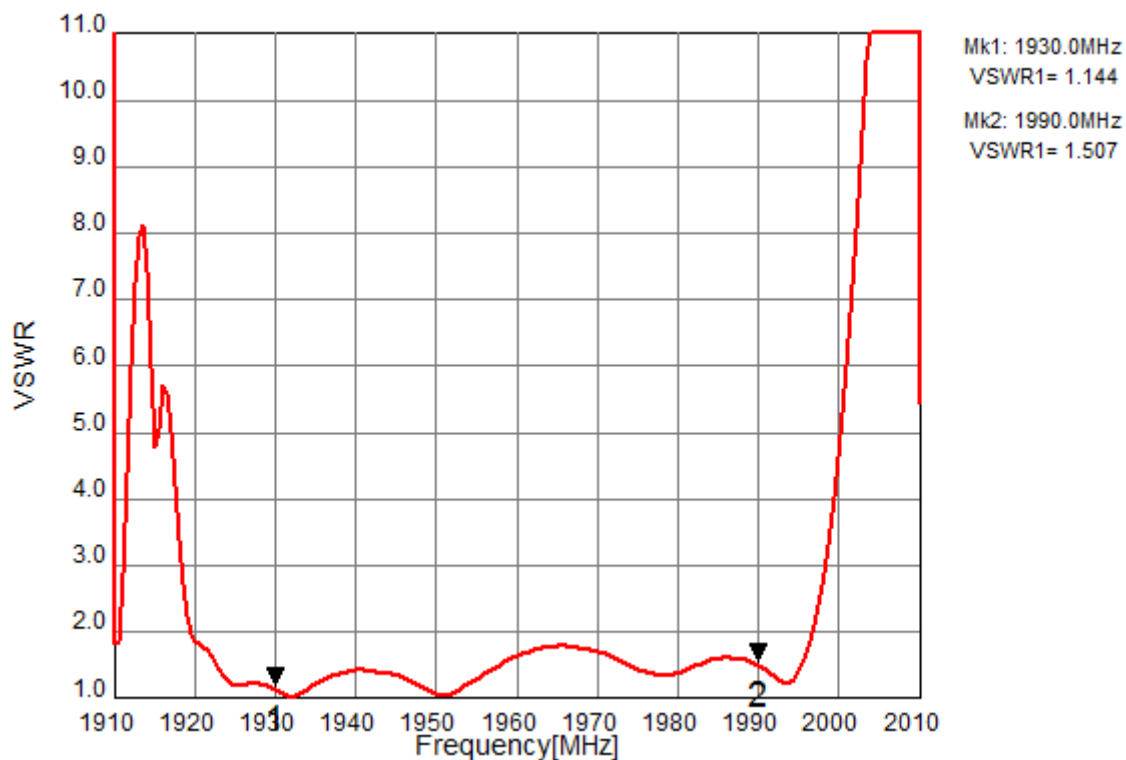


Fig.3 Input VSWR

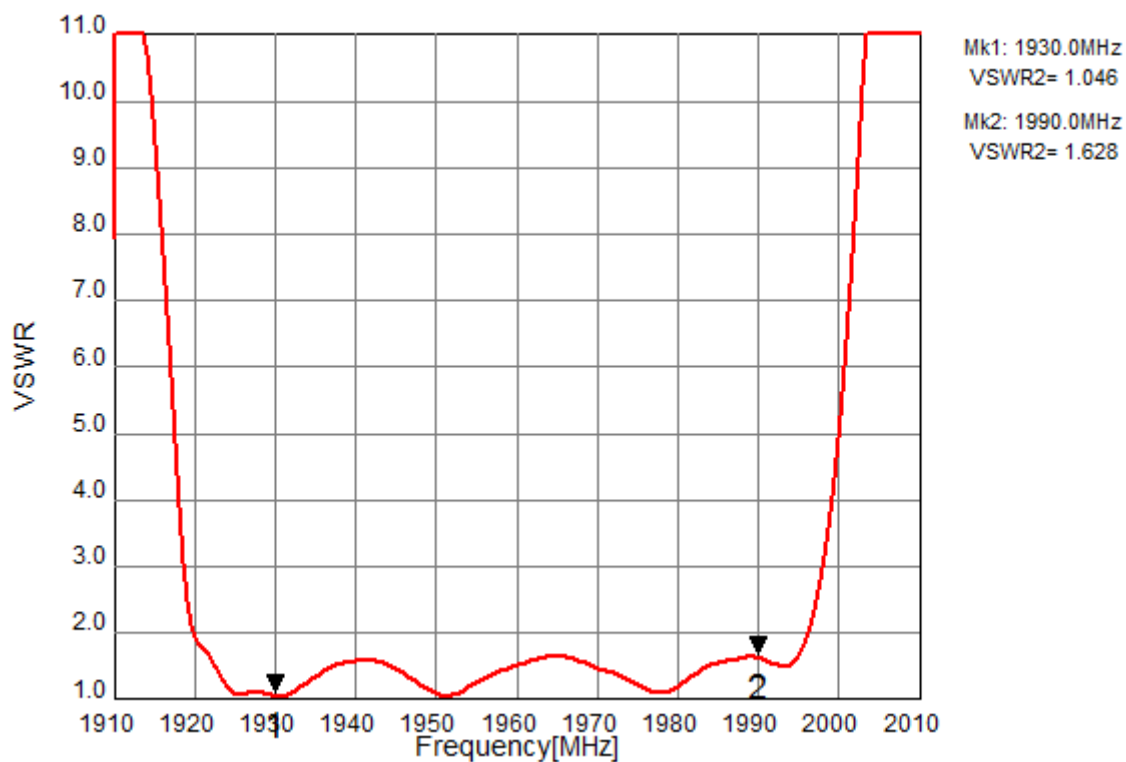


Fig.4 Output VSWR

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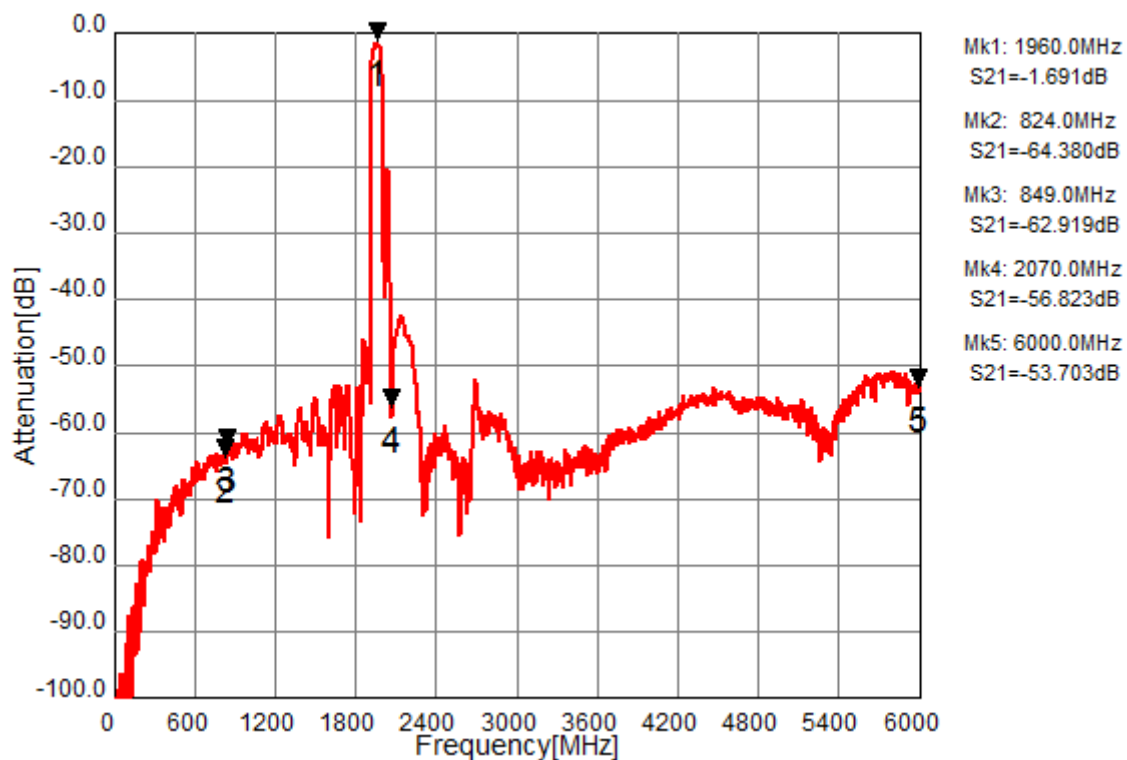


Fig.5 Wide-band Characteristic



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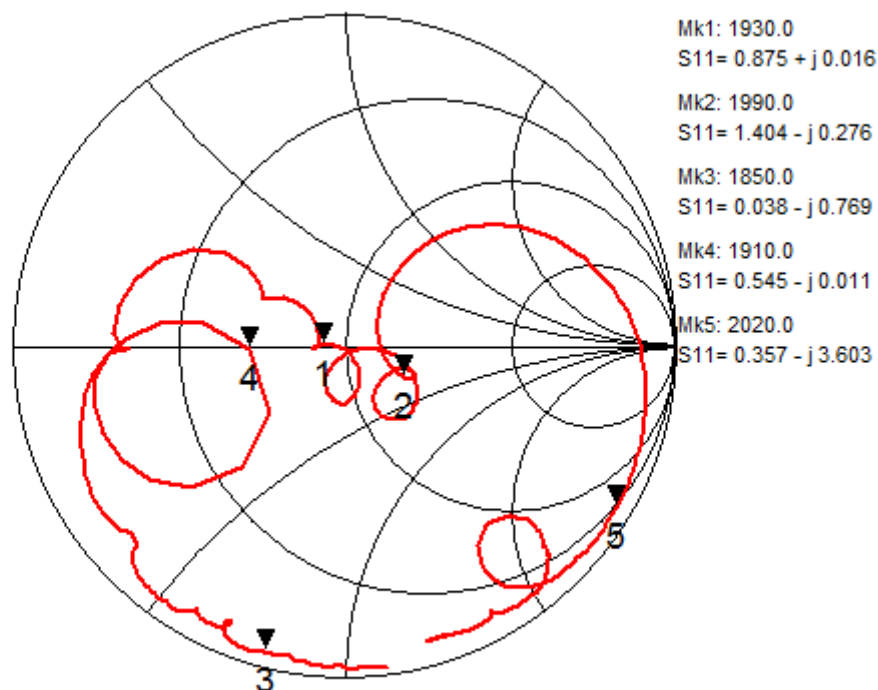


Fig.6 Input Impedance

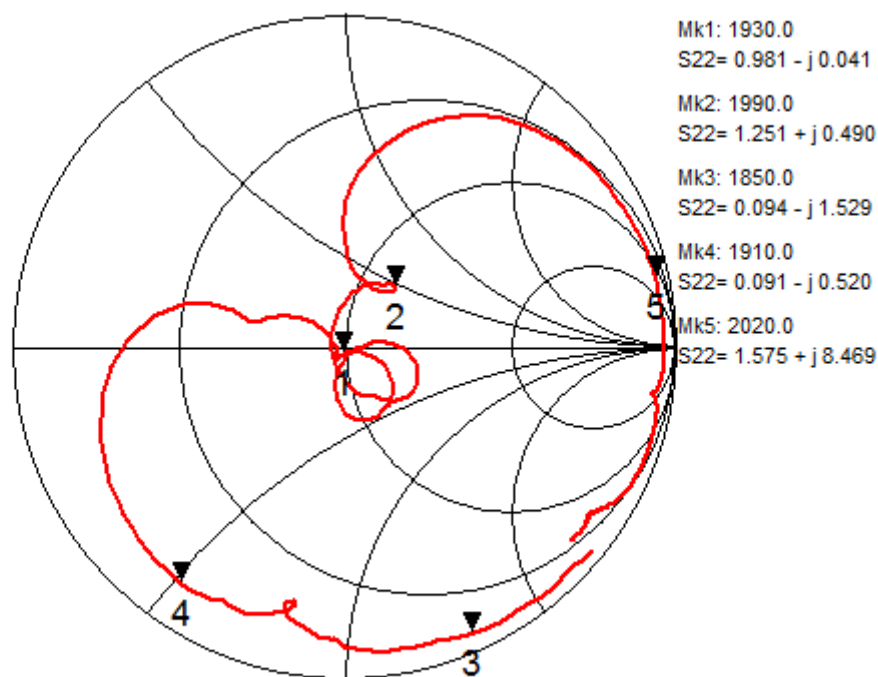


Fig.7 Output Impedance



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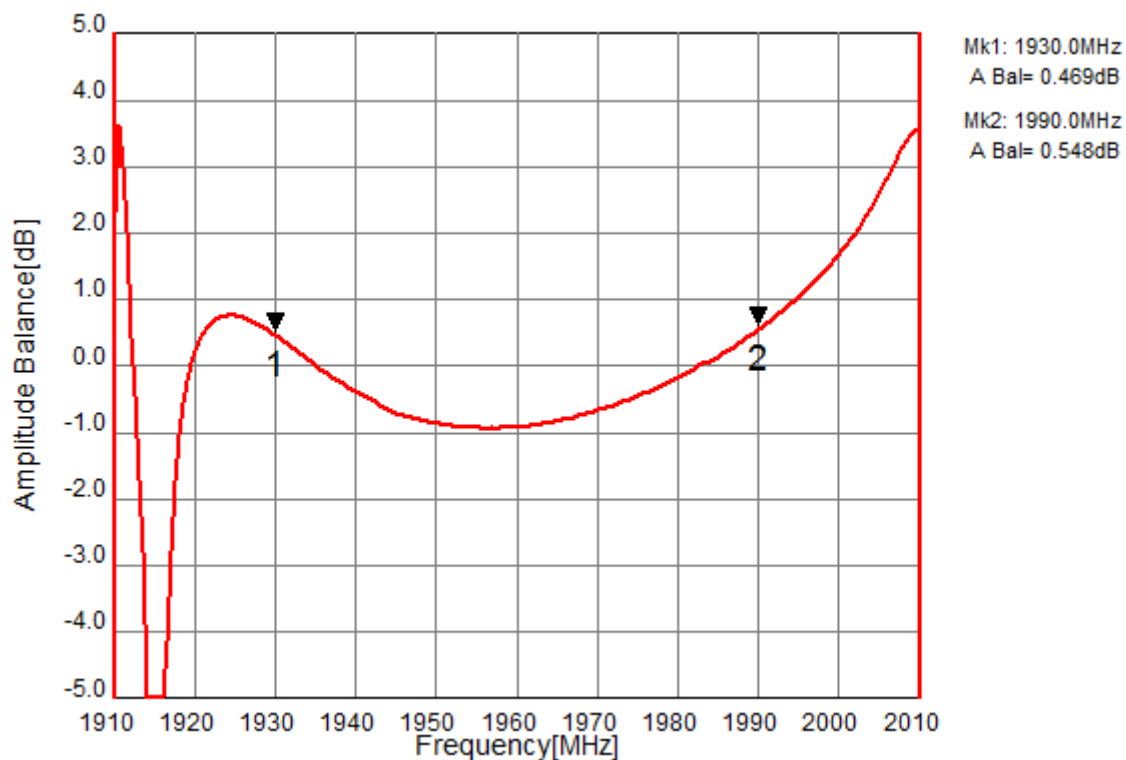


Fig.8 Amplitude balance

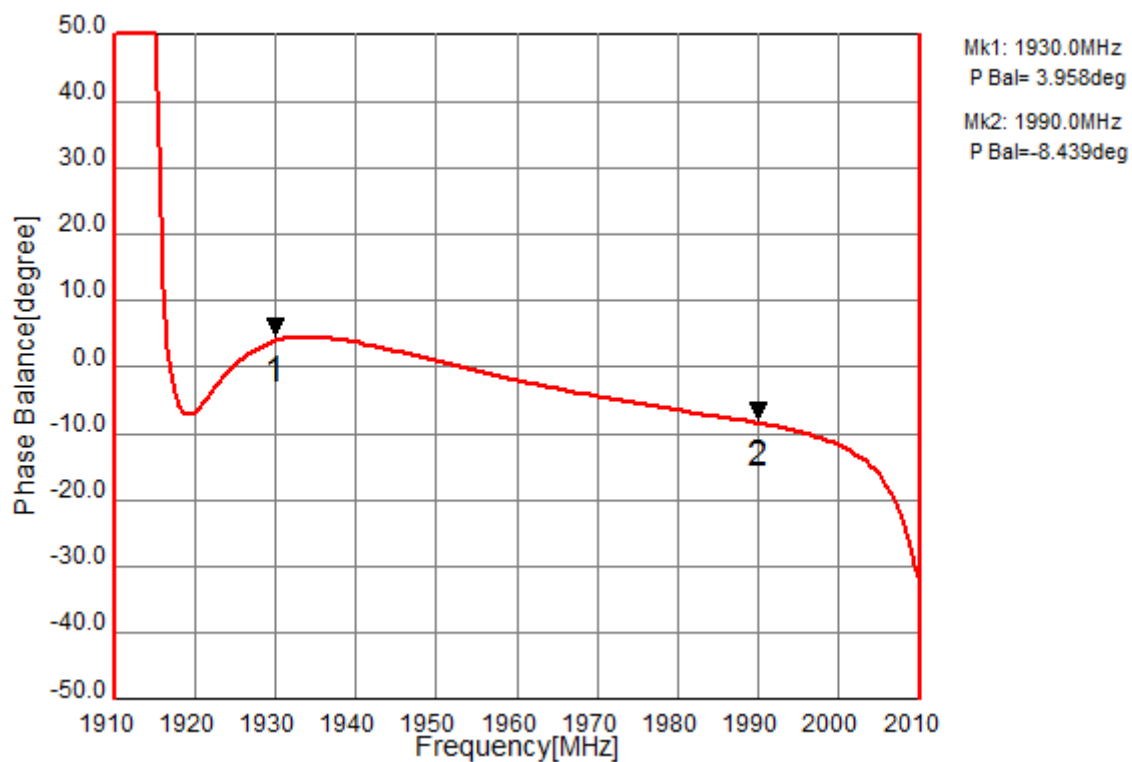


Fig.9 Phase balance

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Ordering Code

Ordering Code	Packing	Reel size	Status
F6QG1G960P2KT-J	Tape & Reel	5,000 pcs.	MP
F6QG1G960P2KT-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QG1G960P2KT-Y	Tape & Reel	15,000 pcs.	MP
F6QG1G960P2KT-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QG1G960P2KT-Q	Bulk	few pcs.	MP

*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives..

*MP : Mass Production

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In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.

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