



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band II-Rx Filter	DATE	Mar. 16, 2011
Part Number	F6KY1G960B4NF	Version 1.0a	Final

Table 1 Filter1 Electrical Specification

Parameter	Condition (MHz)	Specification			Unit	Remarks
		Ver.1.0a				
		Min.	Typ.	Max.		
Insertion Loss(*1)	1930.6 – 1989.4	-	2.8	4.0	dB	
Amplitude ripple	1930.6 – 1989.4		1.2	2.5	dB	
Input VSWR	1930.6 – 1989.4	-	1.9	2.3	-	
Output VSWR	1930.6 – 1989.4	-	2.0	2.5	-	
Attenuation	10 – 1850	40	49	-	dB	
	824 – 849	50	67	-	dB	
	1850 – 1909.4	35	50	-	dB	
	2020 – 2070	15	18	-	dB	
	2070 – 6000	35	42	-	dB	
Amplitude balance (S21/S31)	1930.6 – 1989.4	-1.3	-0.5~ +0.8	+1.3	dB	
Phase balance ((ϕ S21- ϕ S31)+180)	1930.6 – 1989.4	-13	-6~+6	13	deg.	
Operating temperature range		-30~ +85			°C	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100			ohm	

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



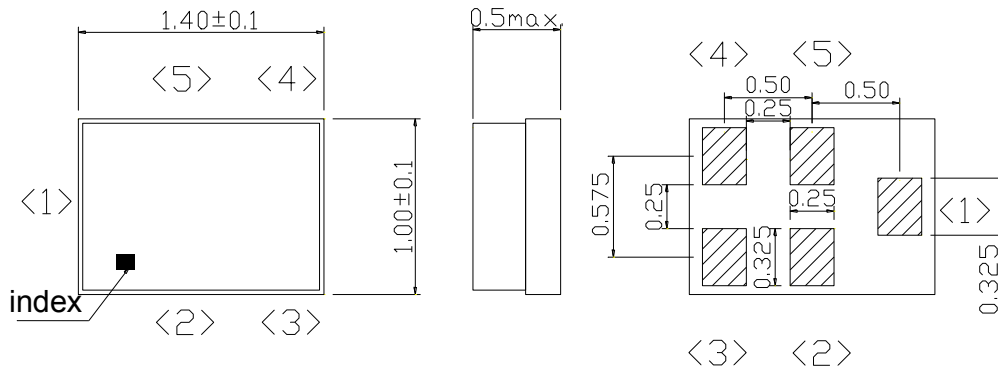
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Dimensions

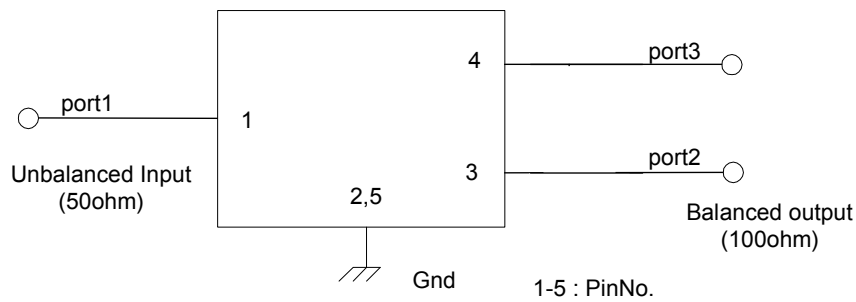
Device size: 1.4mmtyp. x 1.0mmtyp. x 0.5mmmax.



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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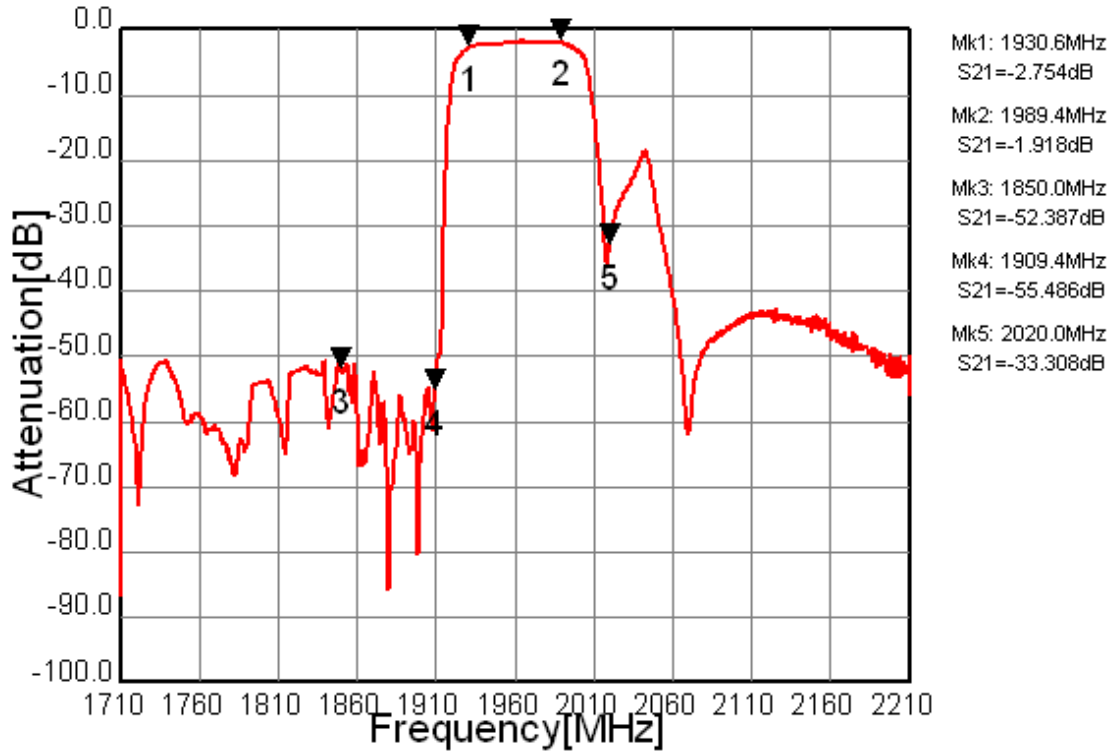


Fig.1 Pass-band Characteristic

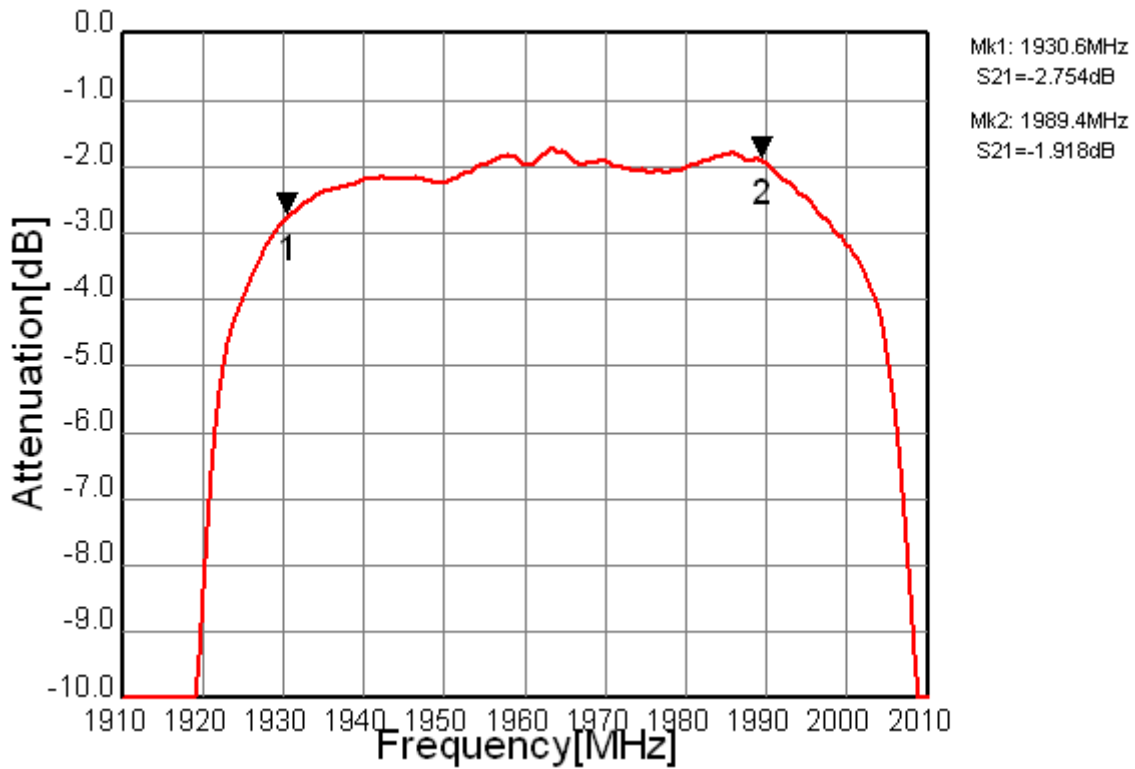


Fig.2 In-band Characteristic



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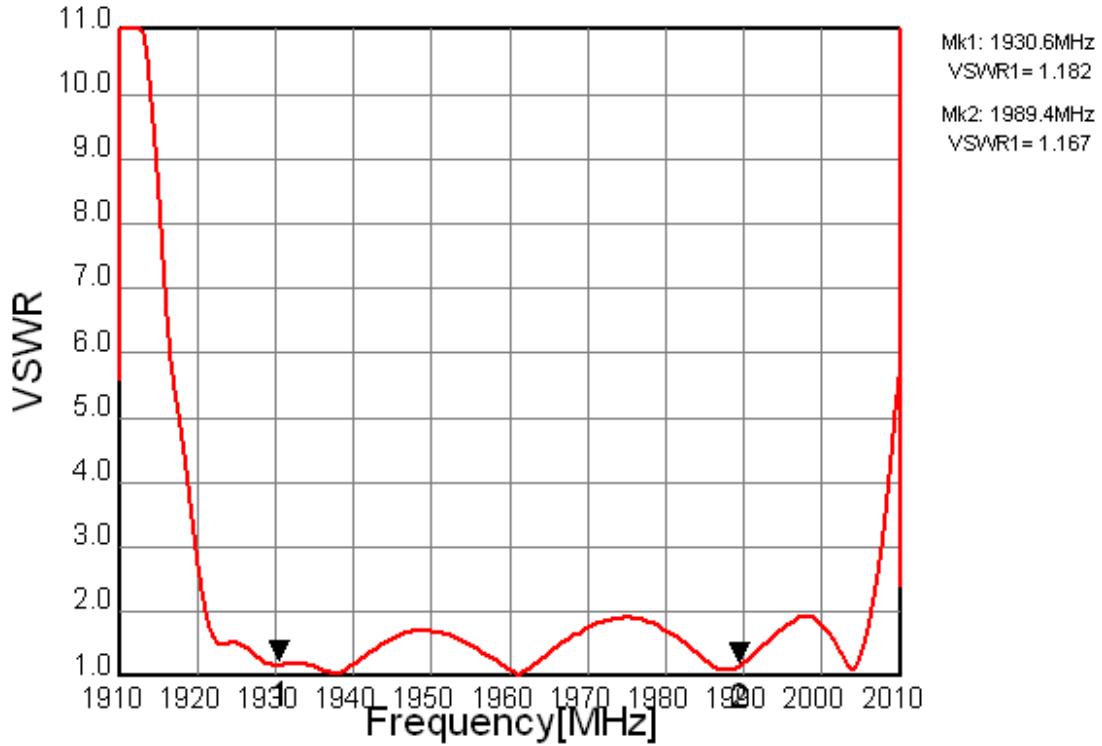


Fig.3 VSWR (INPUT)

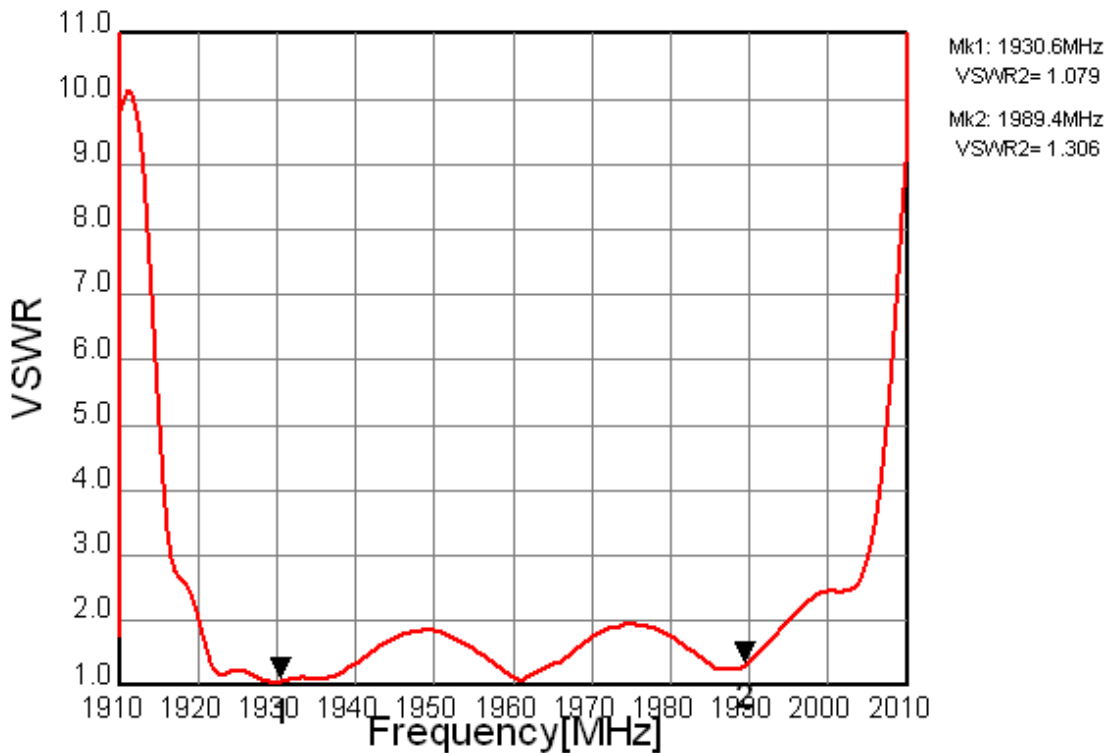


Fig.4 VSWR (OUTPUT)



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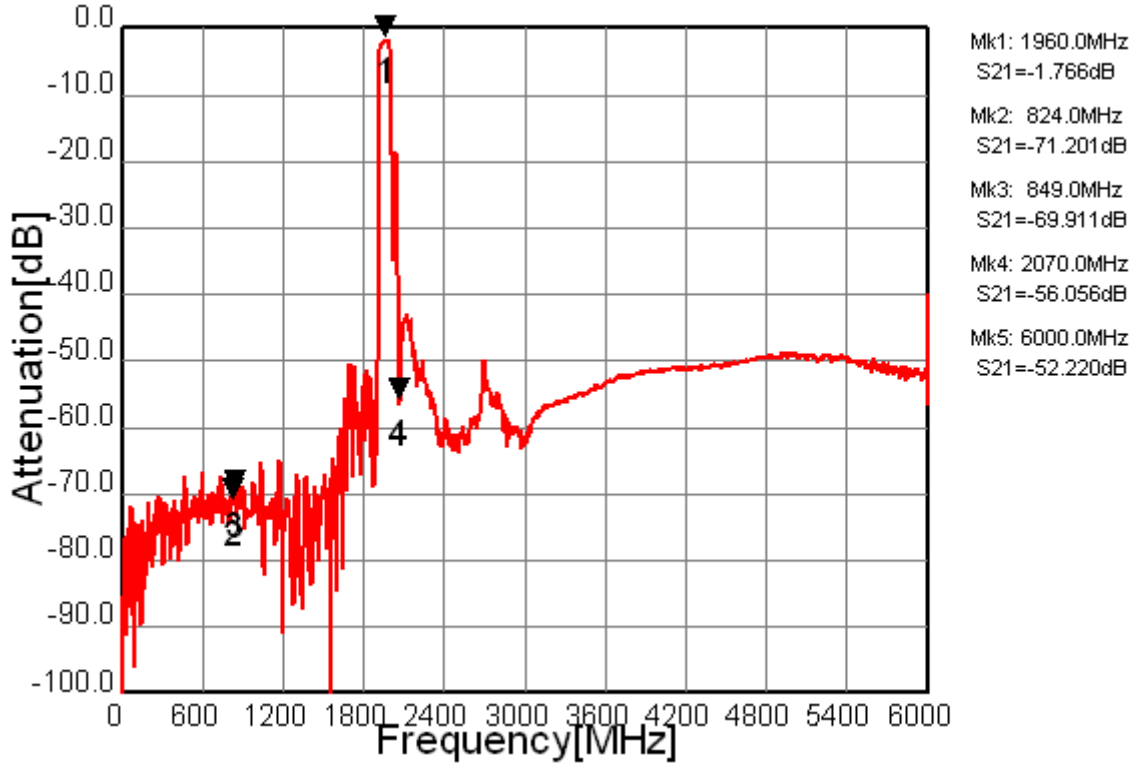


Fig.5 Wide-band Characteristic



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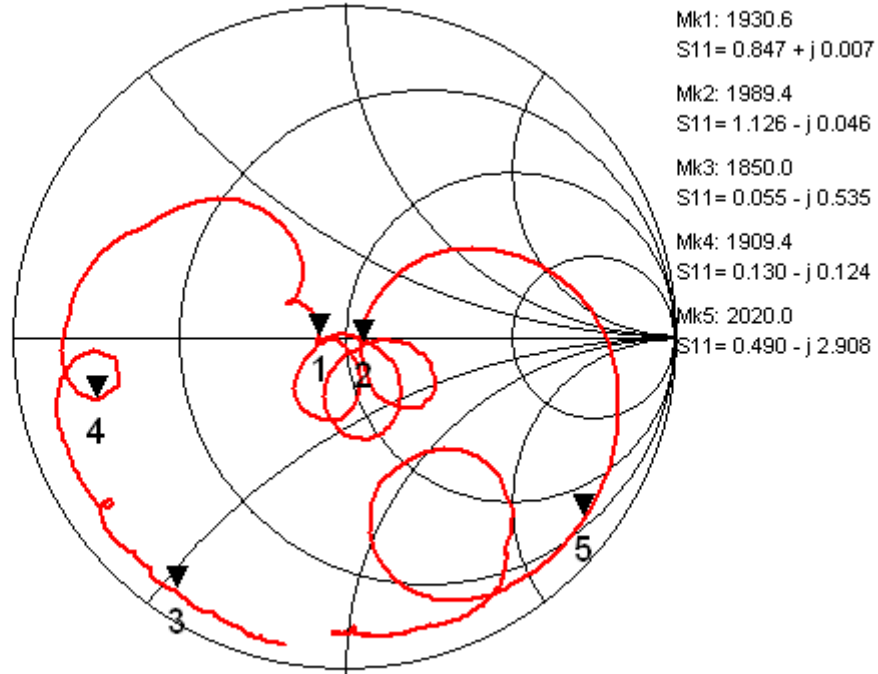


Fig.6 Impedance (S11)

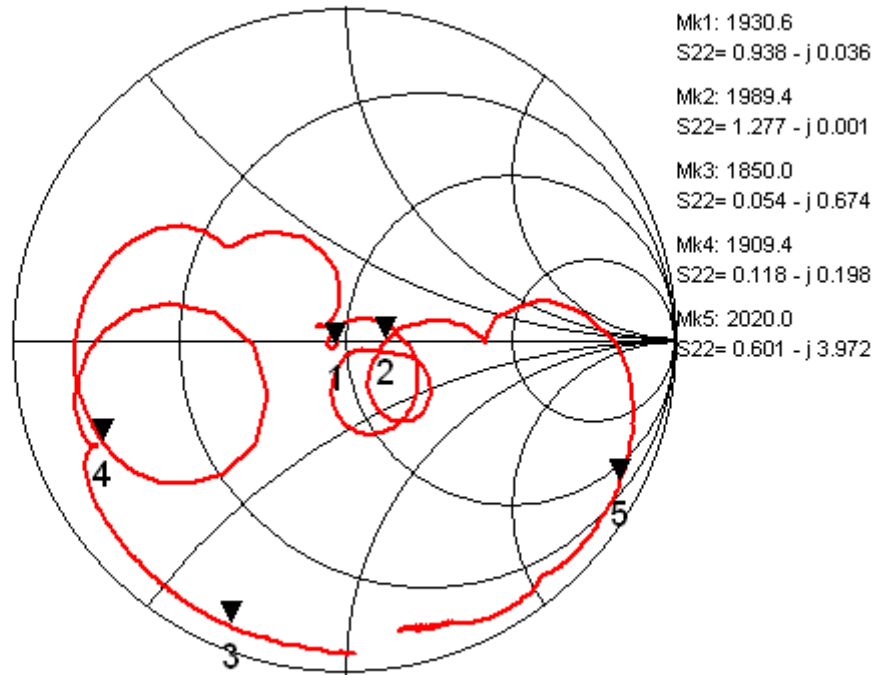


Fig.7 Impedance (S22)



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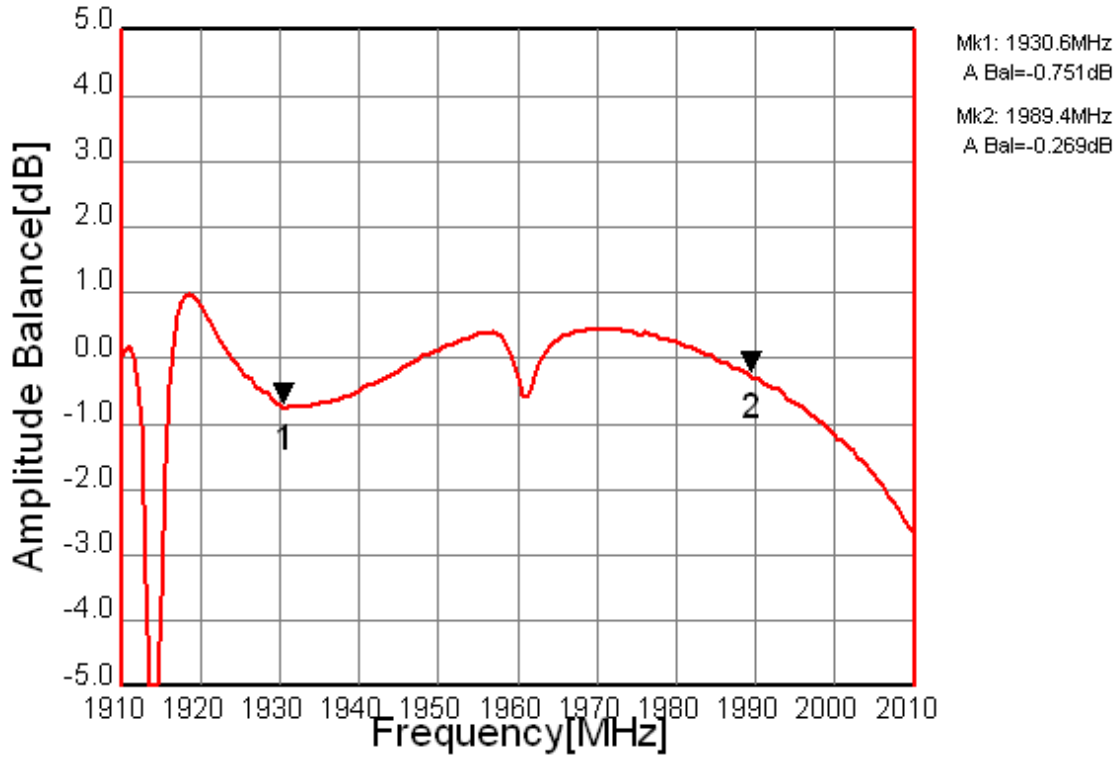


Fig.8 Amplitude balance

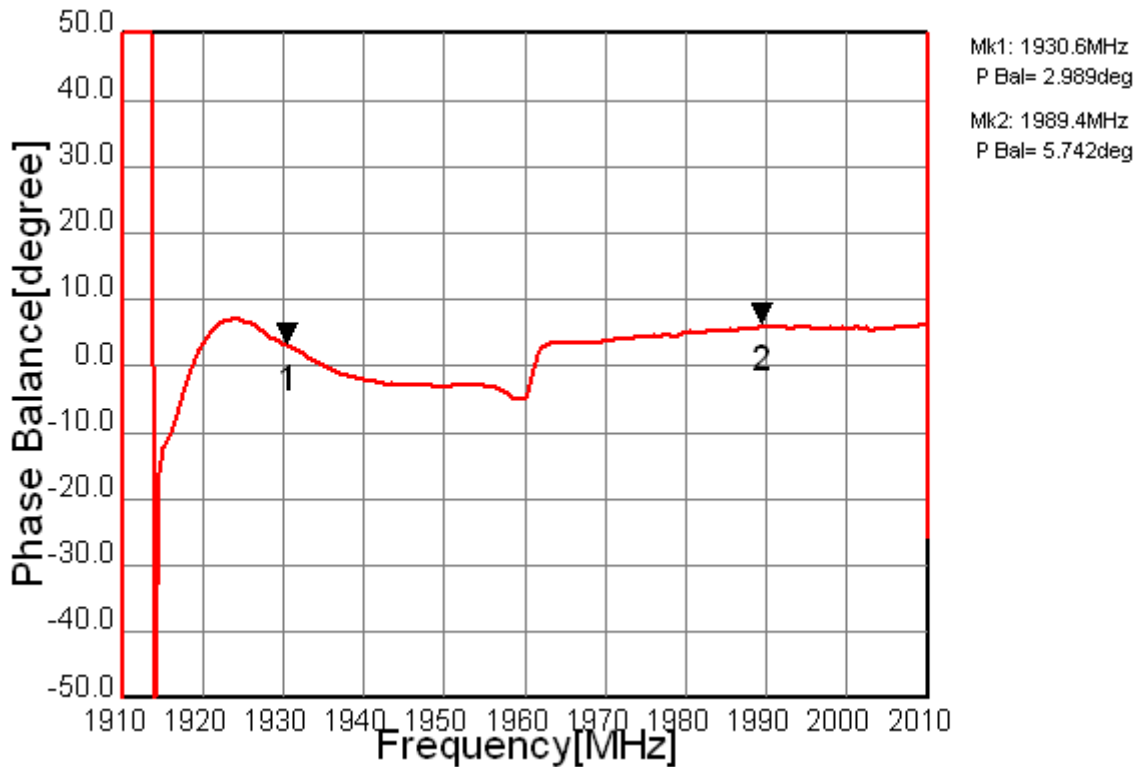


Fig.9 Phase balance



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6KY1G960B4NF-Z S	Tape & Reel	3,000 pcs.	ES
F6KY1G960B4NF-ZAS	Tape & Reel	less than 3,000 pcs.	ES
F6KY1G960B4NF-Y S	Tape & Reel	15,000 pcs.	ES
F6KY1G960B4NF-YAS	Tape & Reel	less than 15,000 pcs.	ES
F6KY1G960B4NF-Q S	Bulk	few pcs.	ES

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

*MP : Mass Production

(For Mass Production (MP) order, please delete a letter of "S" at the end of the ordering code indicated above.)

Notice

All of the contents specified herein are subject to change without notice due to technical improvements, etc.

Please contact TAIYO YUDEN Co., Ltd. for further details of product specifications.

Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.