



MSL1

*Pb Free part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band III -Rx	DATE	June 21, 2011
Part Number	F6QG1G842P2KD	Version 2.0b	Preliminary

Table 1 Filter1 Electrical Specification

Parameter	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss(*1)	1805 – 1880	-	3.2	4.5	dB	
Amplitude ripple	1805 – 1880	-	1.9	3.3	dB	
Input VSWR	1805 – 1880	-	1.8	2.3	-	
Output VSWR	1805 – 1880	-	2.0	2.3	-	
Attenuation	10 – 1300	40	63	-	dB	
	1300 – 1705	40	53	-	dB	
	1705 – 1785	41	45	-	dB	
	1920 – 1980	24	28	-	dB	
	1980 – 3000	30	38	-	dB	
	3000 – 5000	30	50	-	dB	
	5000 – 6000	30	48	-	dB	
Amplitude balance (S21/S31)	1805 – 1880	-1.3	+0.8/-0.5	+1.3	dB	
Phase balance ((ϕ S21- ϕ S31)+180)	1805 – 1880	+12	+3/-3	-12	deg.	
Operating temperature range		-30~ +85			°C	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100//18nH			ohm	

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



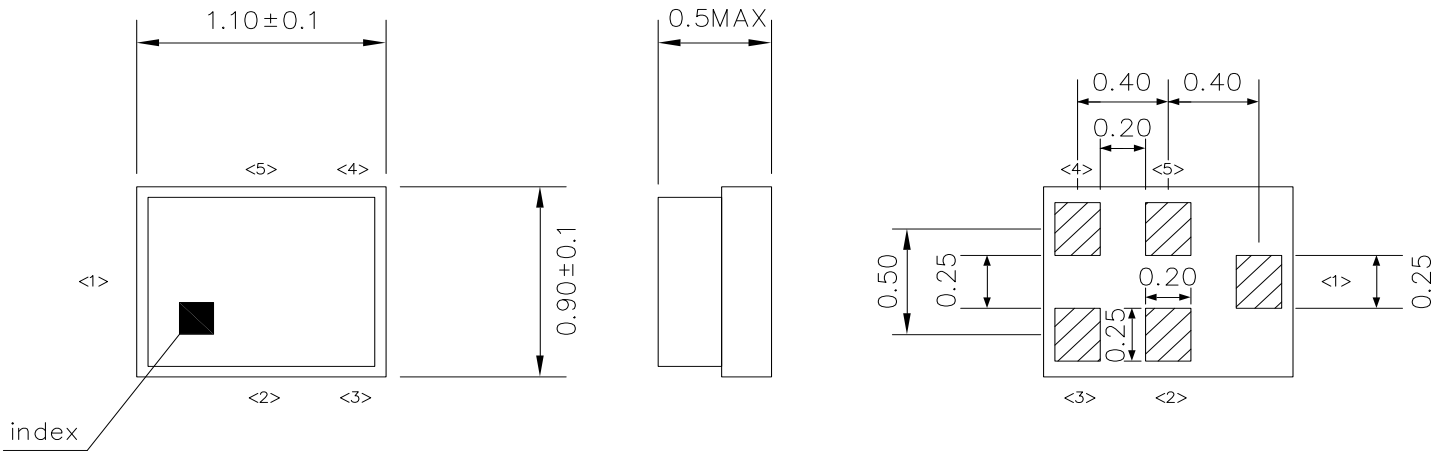
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Dimensions

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

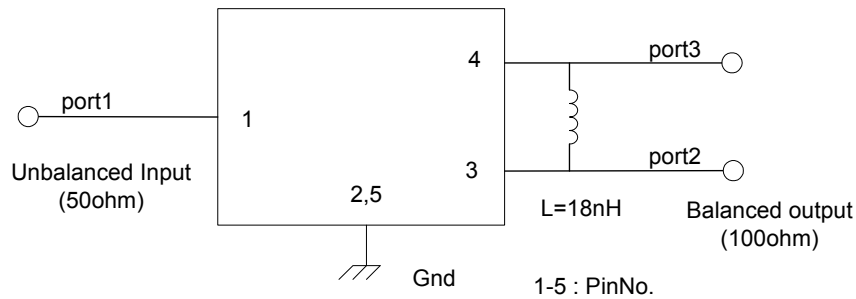


Unit : mm

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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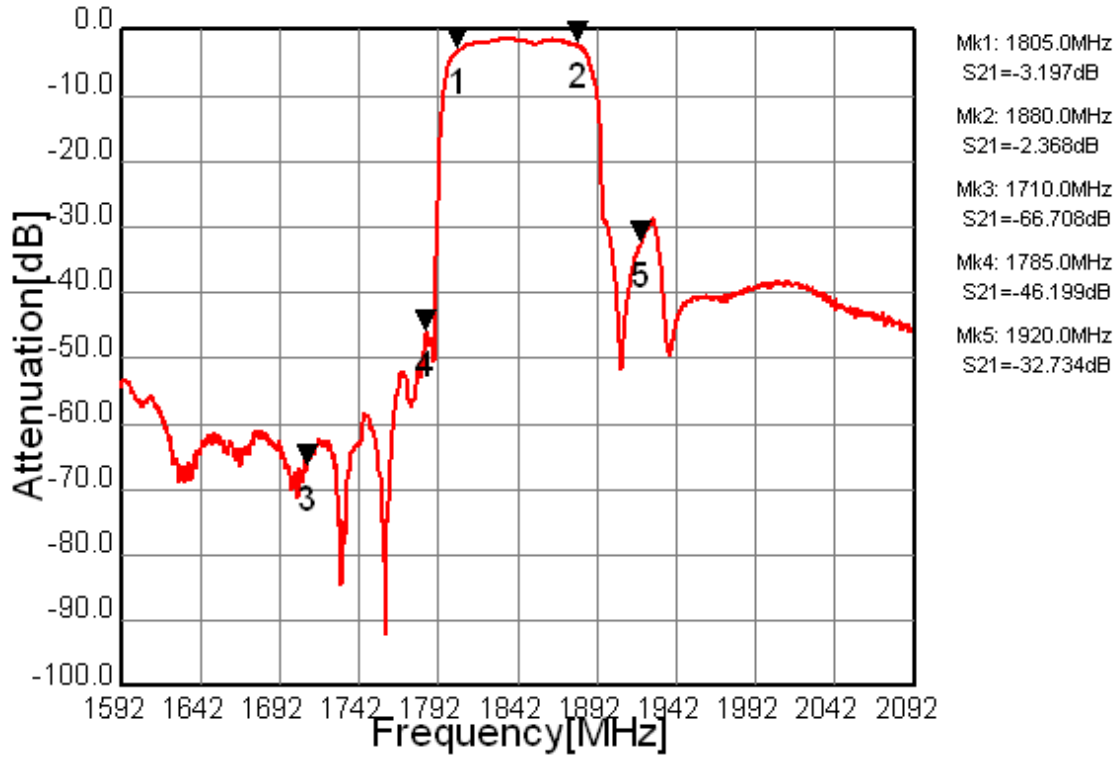


Fig.1 Pass-band Characteristic

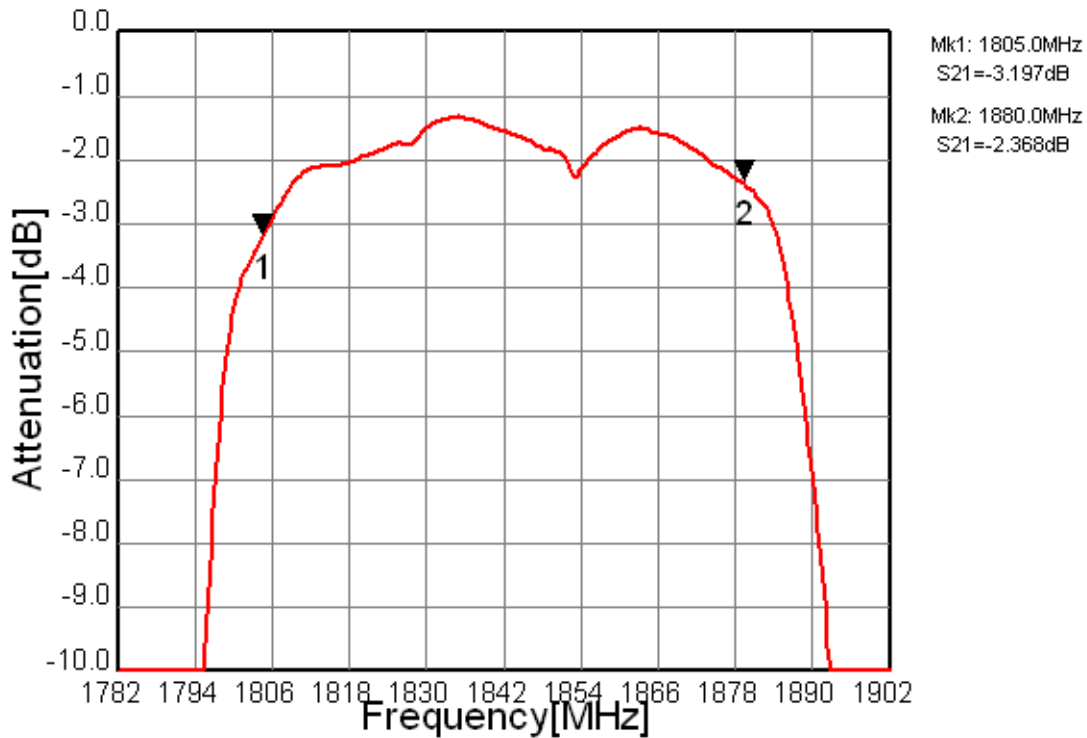


Fig.2 In-band Characteristic



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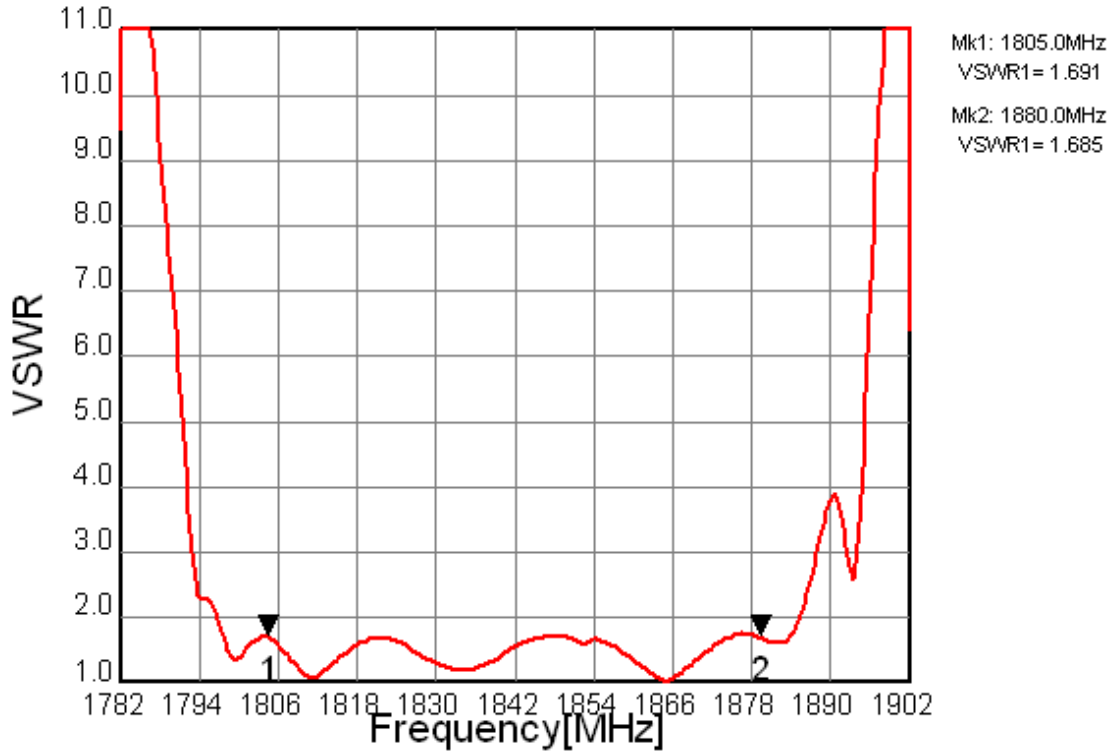


Fig.3 VSWR (INPUT)

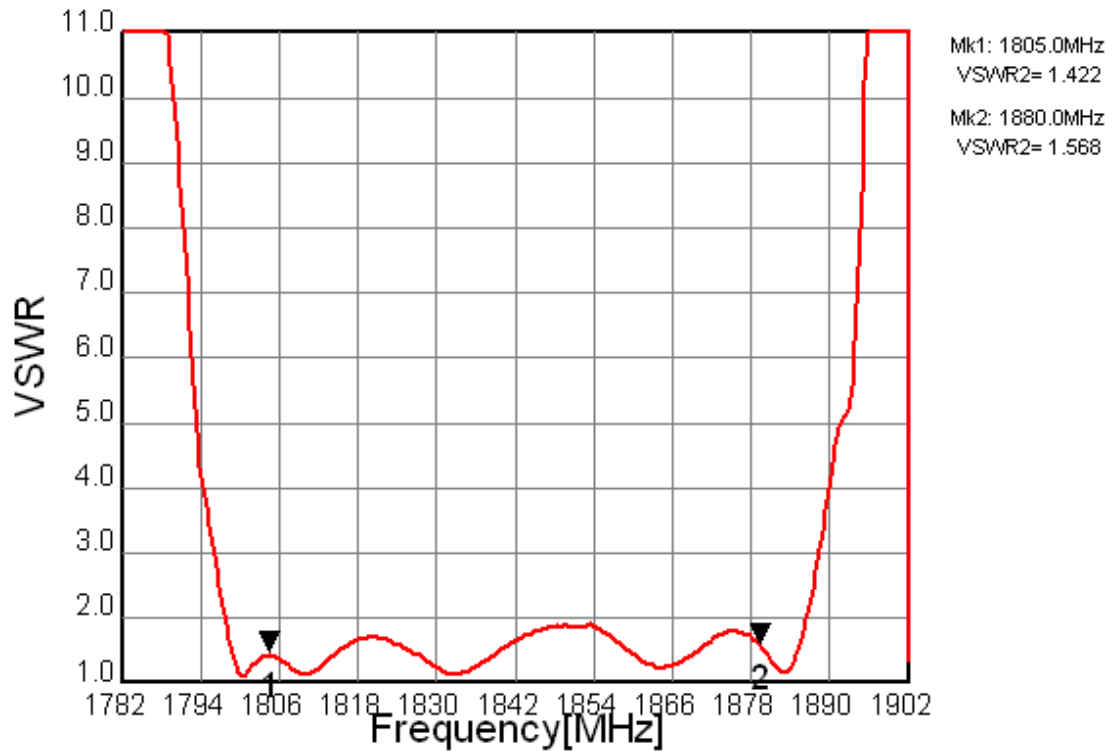


Fig.4 VSWR (OUTPUT)



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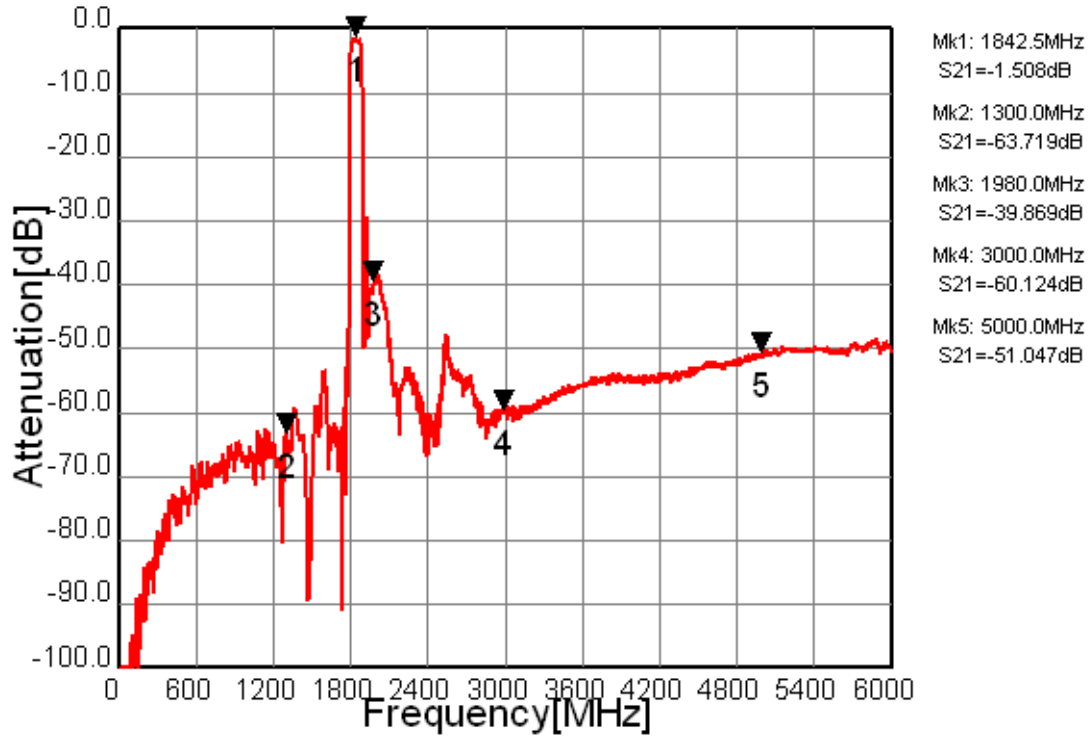


Fig.5 Wide-band Characteristic



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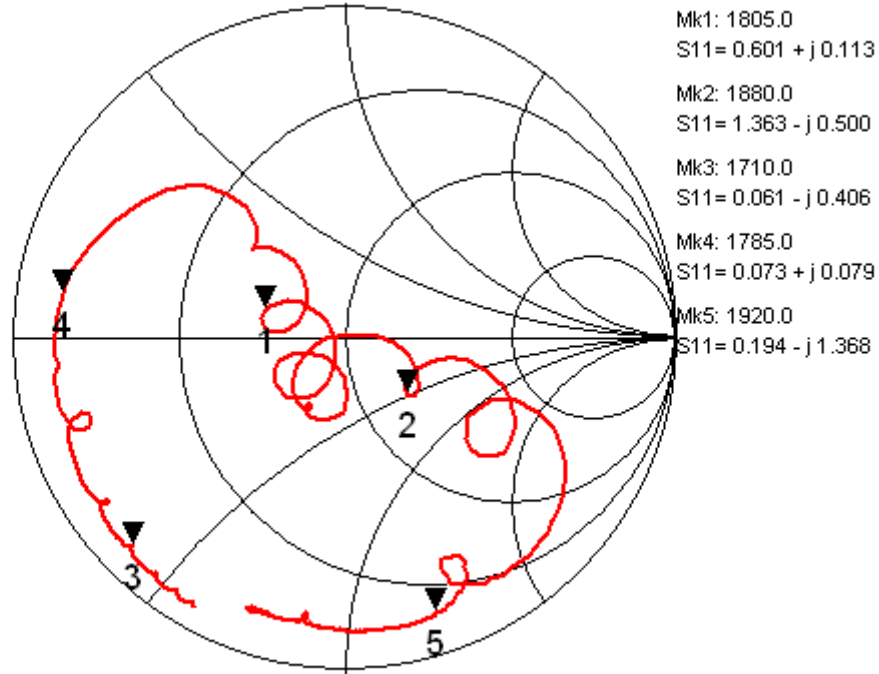


Fig.6 Impedance (S11)

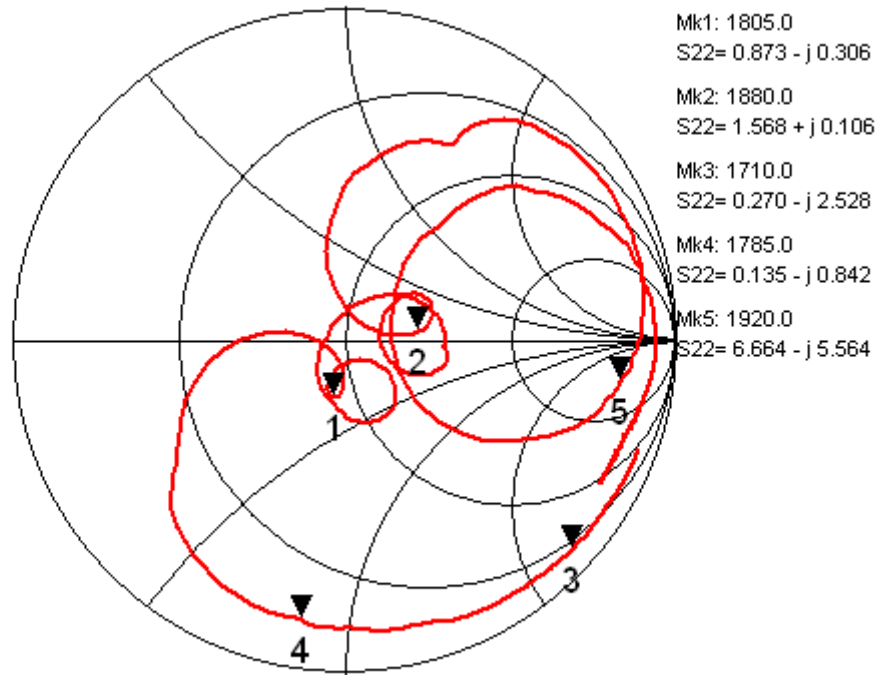


Fig.7 Impedance (S22)



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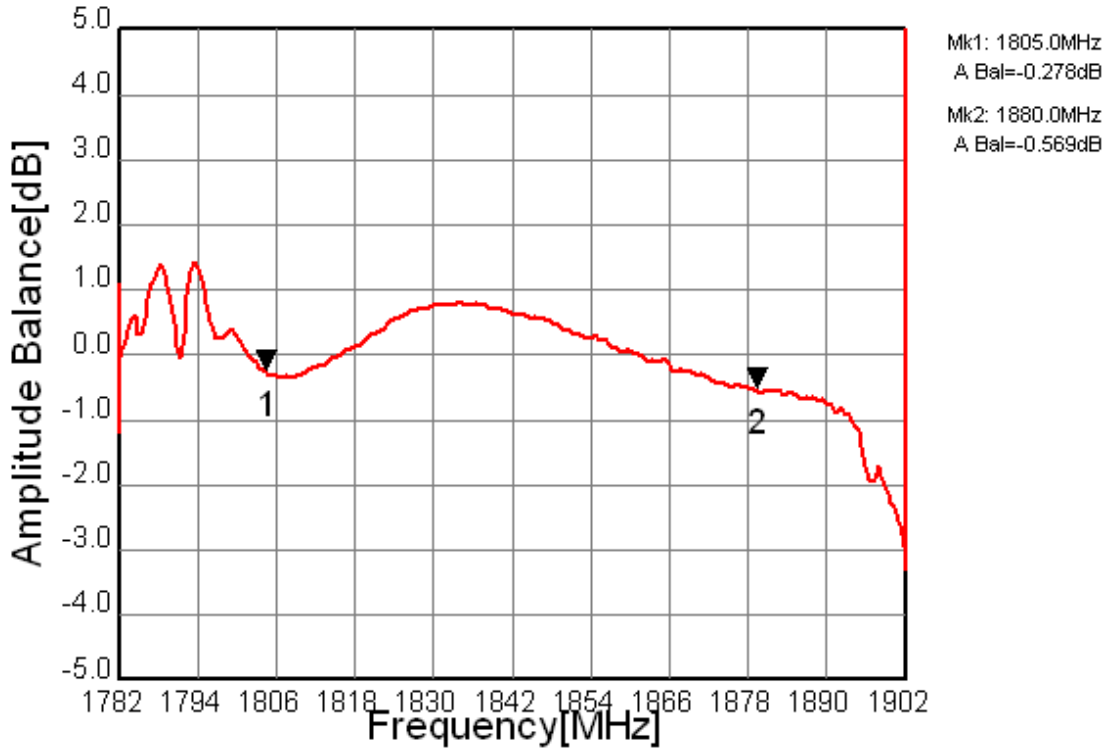


Fig.8 Amplitude balance

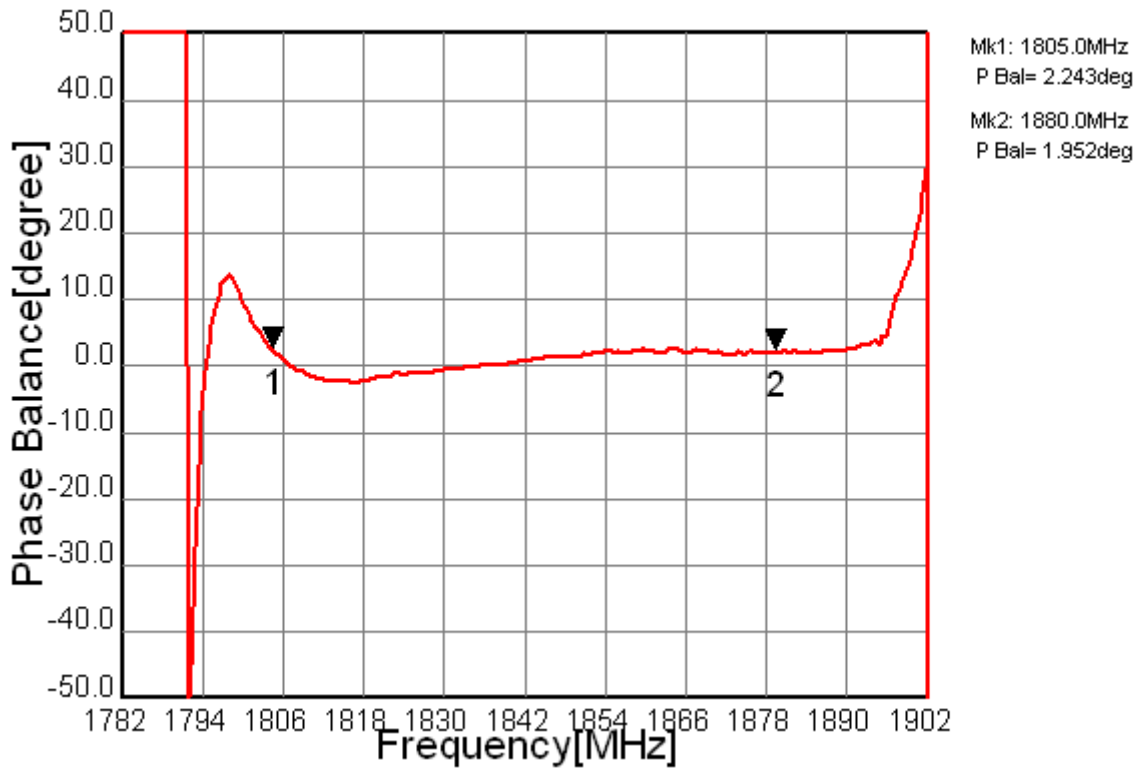


Fig.9 Phase balance



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6QG1G842P2KD-J S	Tape & Reel	5,000 pcs.	ES
F6QG1G842P2KD-JAS	Tape & Reel	less than 5,000 pcs.	ES
F6QG1G842P2KD-Y S	Tape & Reel	15,000 pcs.	ES
F6QG1G842P2KD-YAS	Tape & Reel	less than 15,000 pcs.	ES
F6QG1G842P2KD-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.