



MSL1

\* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band5 Rx (50/100ohm)	DATE	Nov. 9, 2011
Part Number	F5QG881M5P2KG	Version 1.0a	FINAL

Table 1. Electrical specifications

Passband: 869 ~ 894 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	869~894	-	1.5	2.0	dB	(*)
Ripple	869~894	-	0.5	1.0	dB	
Attenuation	DC~824	50	65	-	dB	
	824~849	50	56	-	dB	
	914~960	25	35	-	dB	
	960~2000	40	50	-	dB	
	2000~6000	30	43	-	dB	
VSWR (Input)	869~894	-	1.6	2.0	-	
VSWR (Output)	869~894	-	1.6	2.0	-	
Amplitude balance ( S <sub>21</sub> /S <sub>31</sub>  )	869~894	-1.0	-0.1/+0.2	+1.0	dB	
Phase balance (( $\angle S_{21} - \angle S_{31}$ )+180)	869~894	-10	-0.2/+3.5	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	100			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.1typ. x 0.9typ. x 0.5max.			mm	

(\*) Specification of insertion loss includes loss that comes from the test board.(0.05dB)



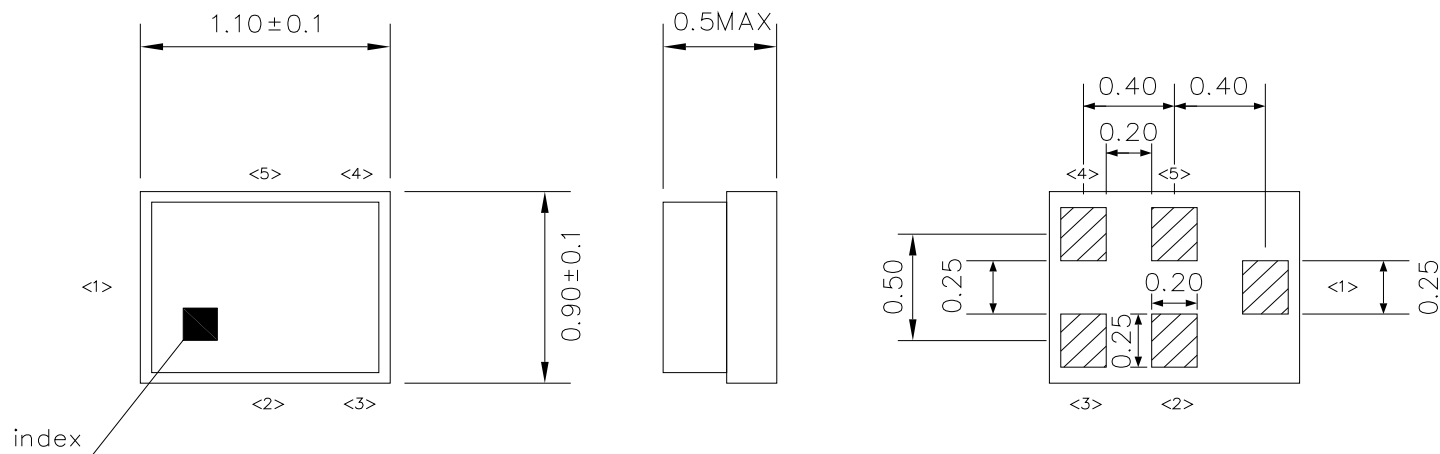
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## Dimensions

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

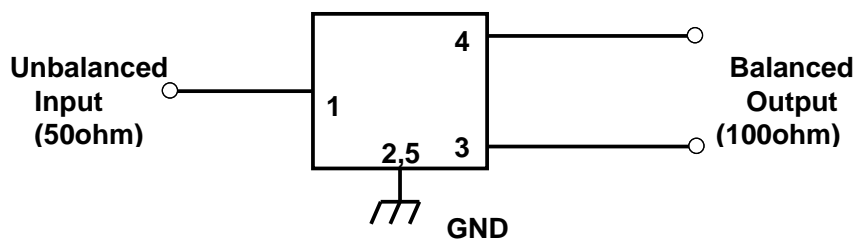


Unit : mm

## 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



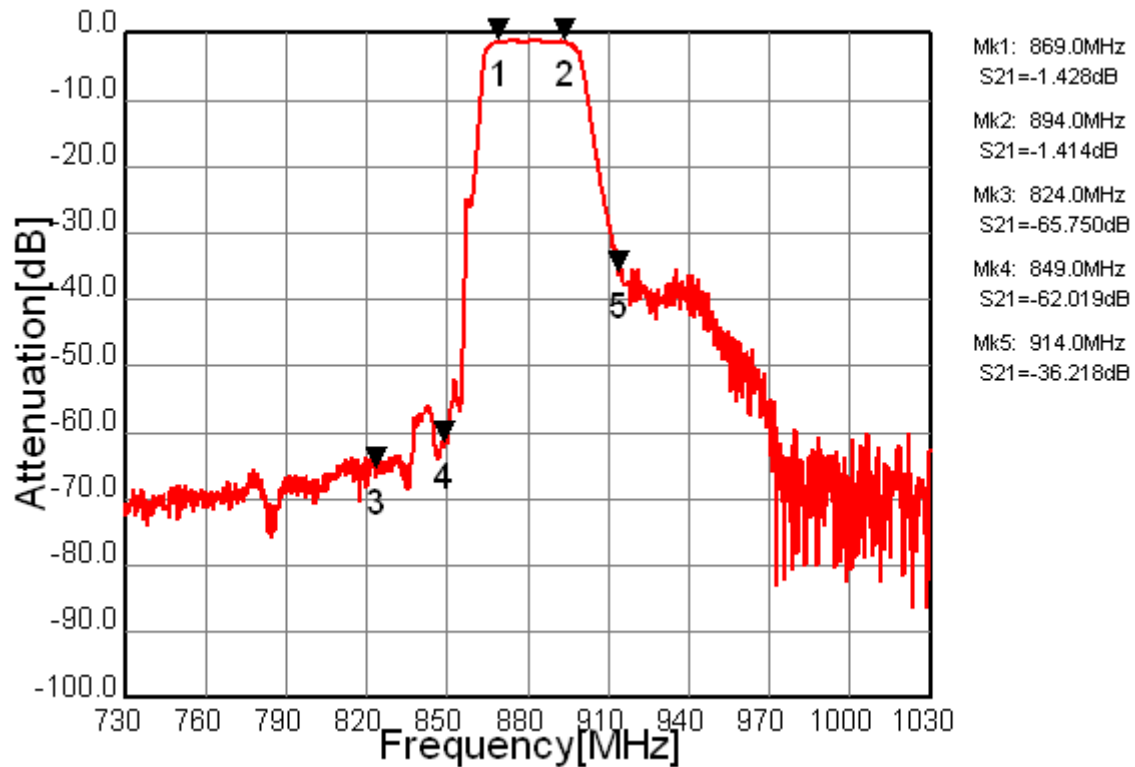
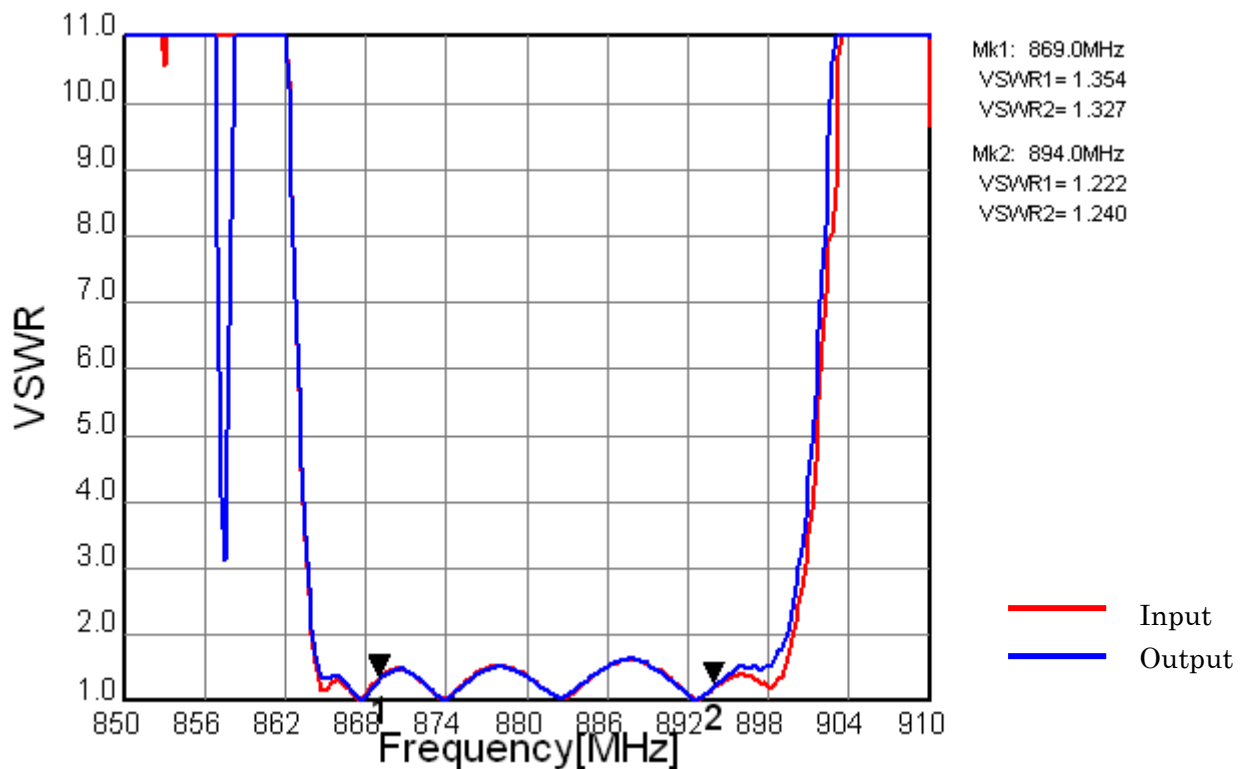
1 ~ 5 : Pin No.

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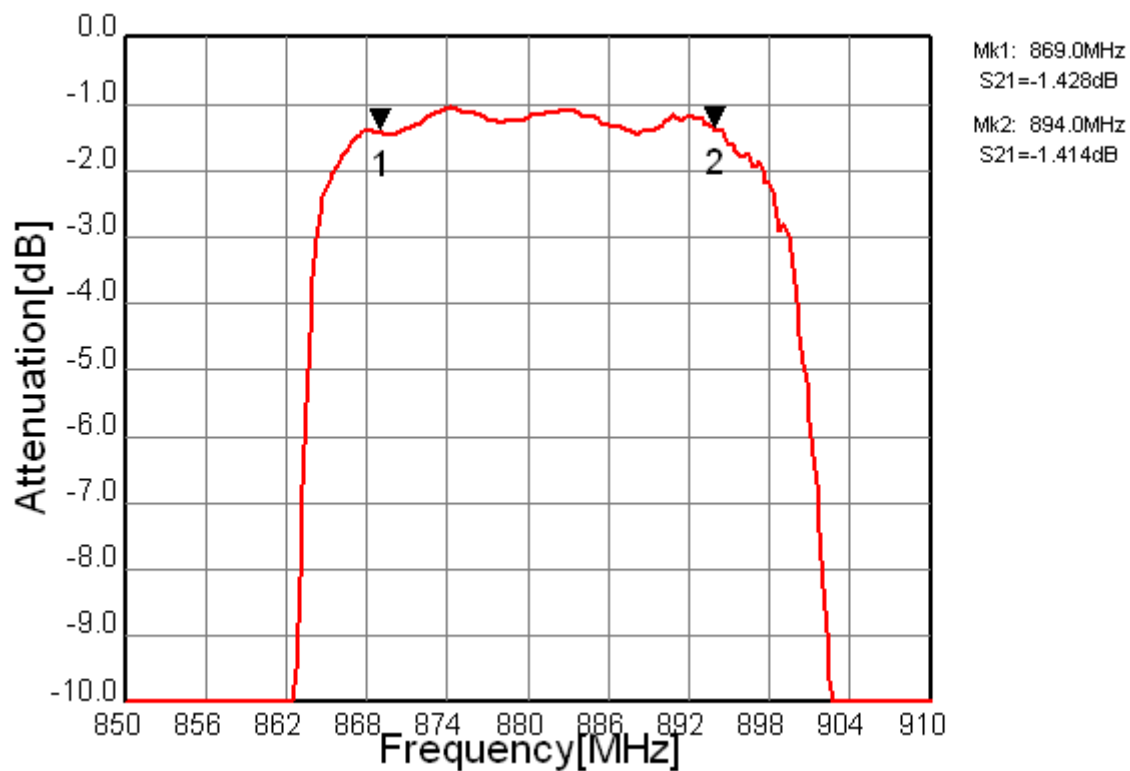
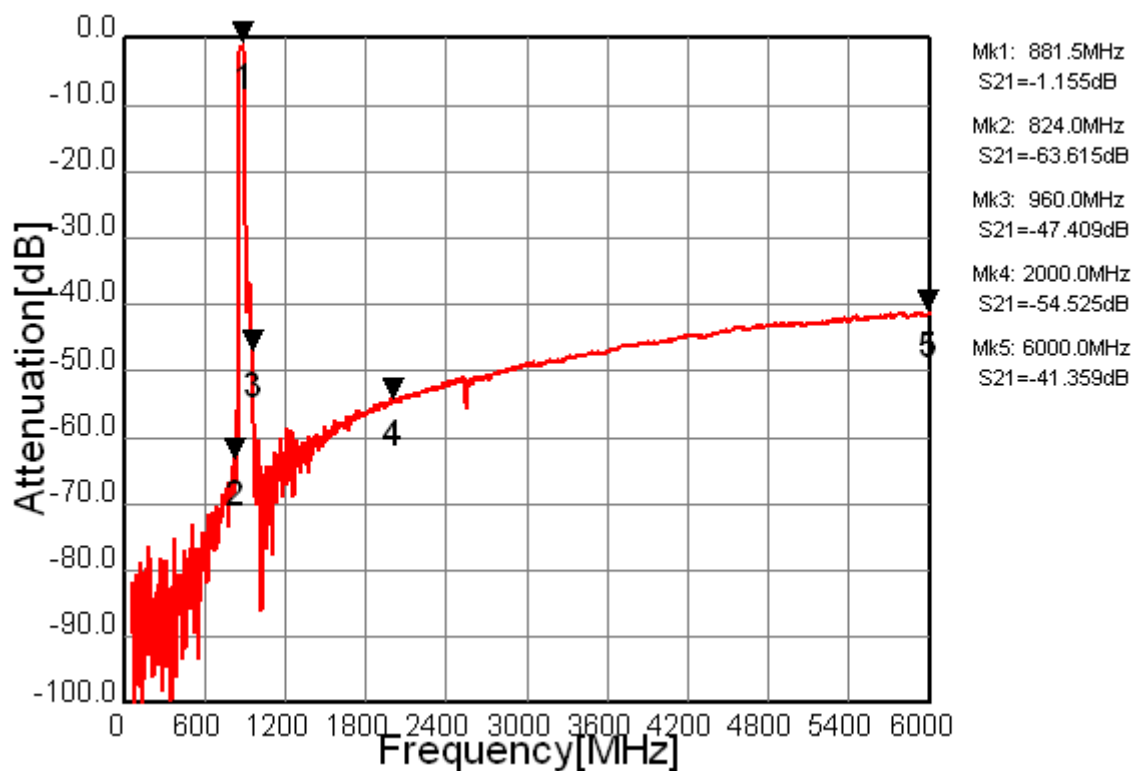
**Fig.1 Pass-band Characteristics****Fig.2 VSWR****TAIYO YUDEN**

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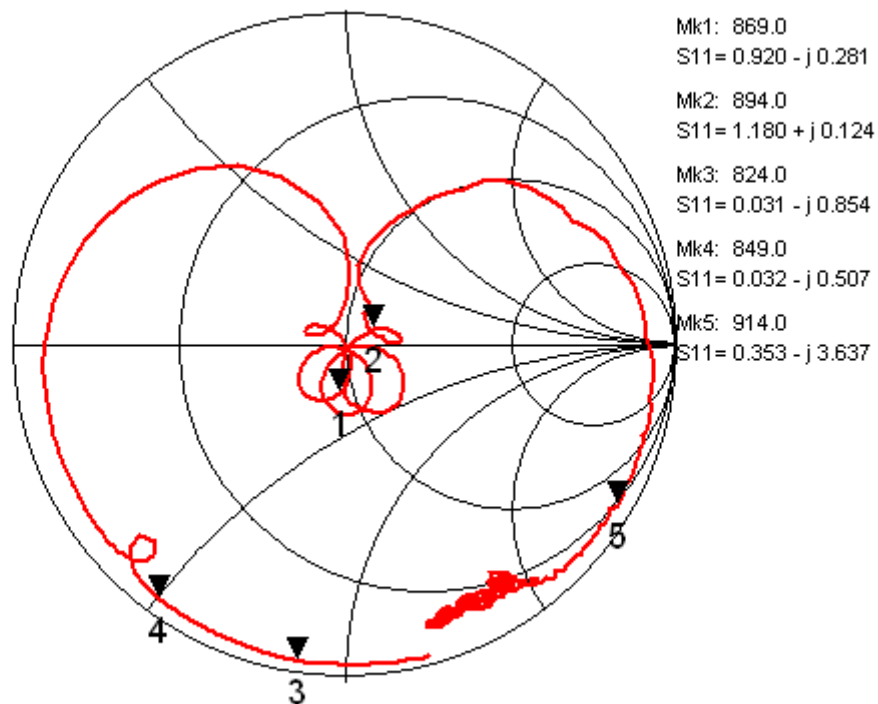
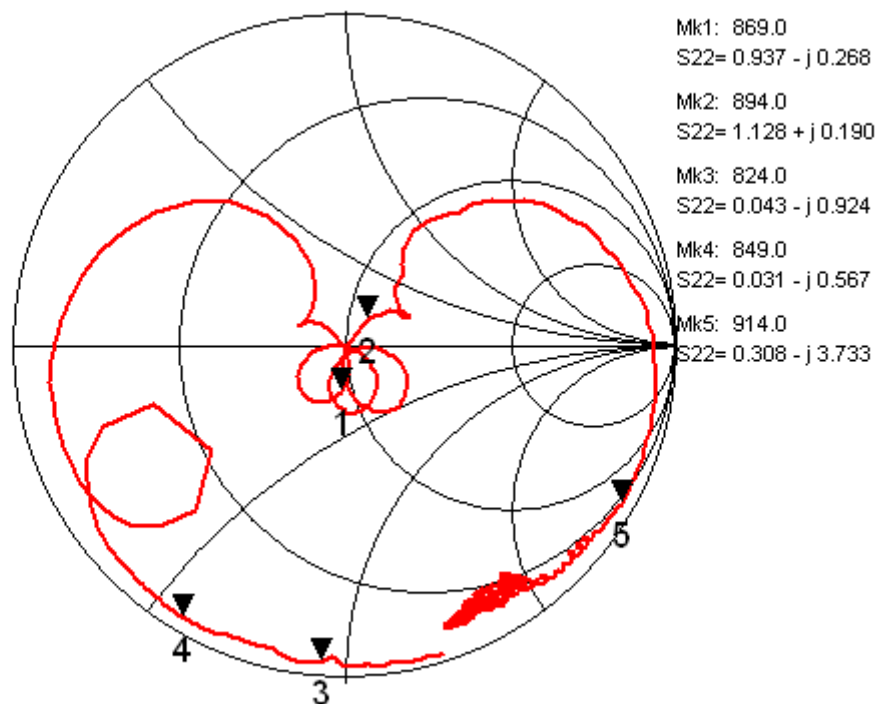
**Fig.3 In-band Characteristics****Fig.4 Wide-band Characteristics****TAIYO YUDEN**

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**Fig.5 Input Impedance (Unbalance)****Fig.6 Output Impedance (Balance)****TAIYO YUDEN**



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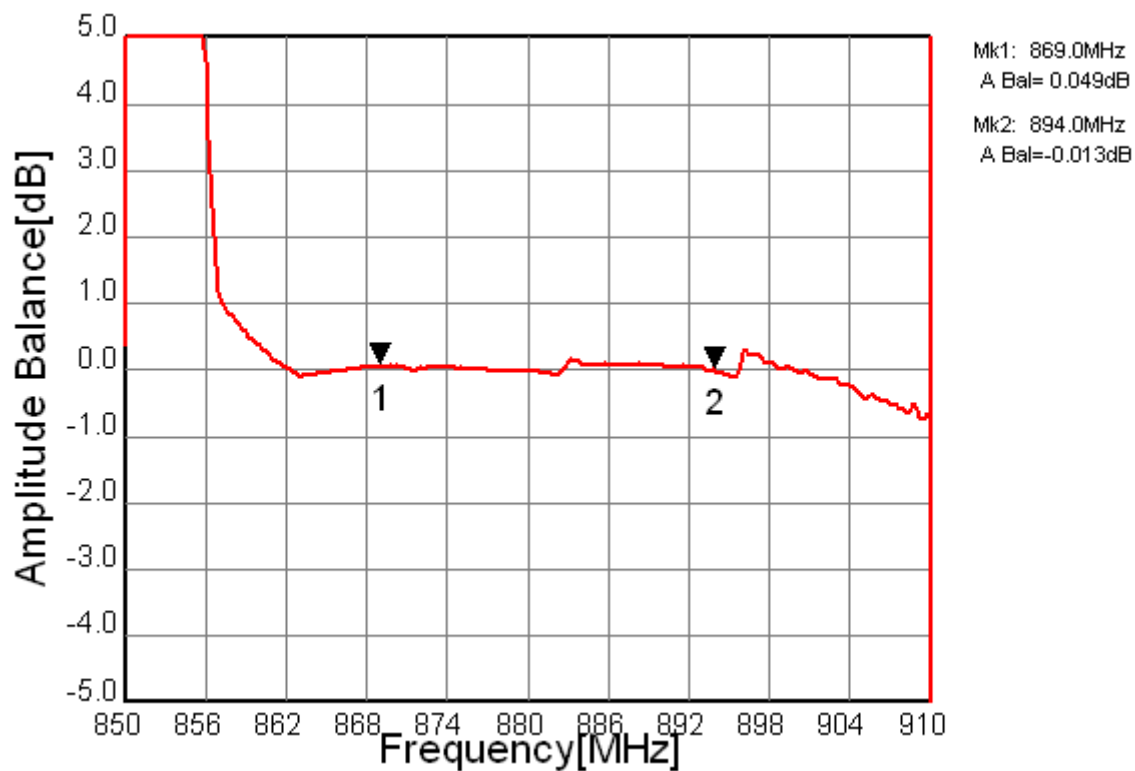


Fig.7 Amplitude Balance

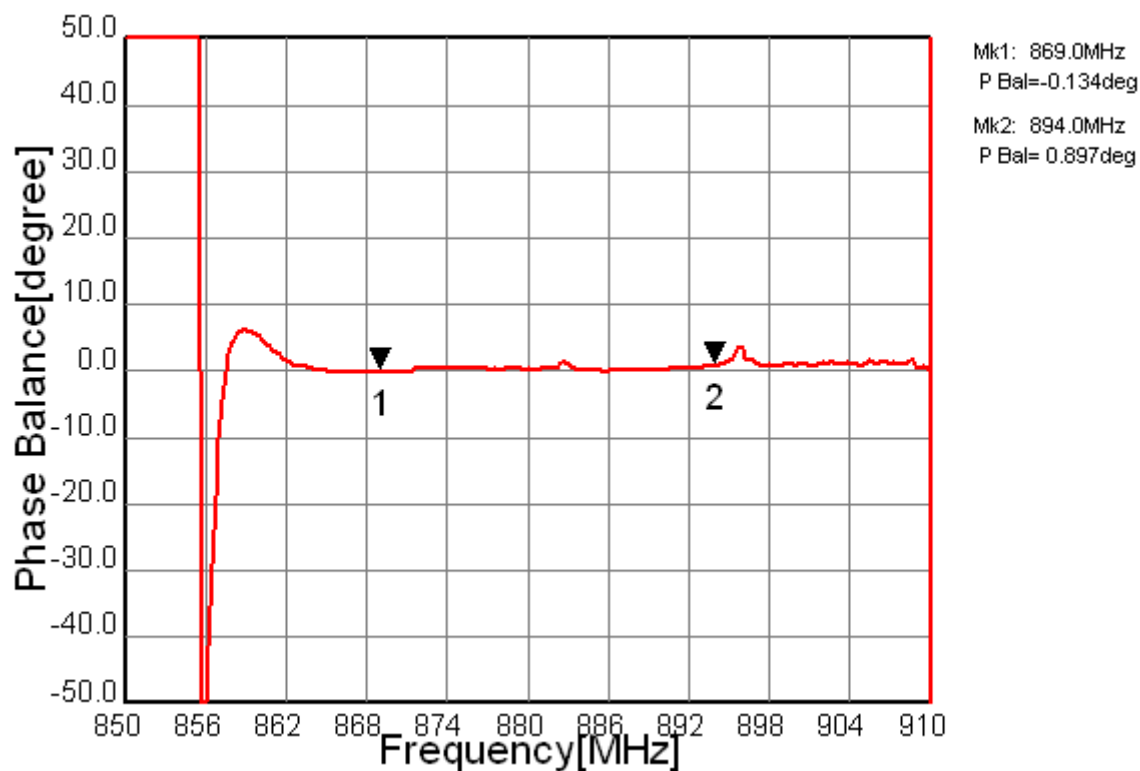


Fig.8 Phase Balance

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## Ordering Code

Ordering Code	Packing	Reel size	Status
F5QG881M5P2KG-J	Tape & Reel	5,000pcs.	MP
F5QG881M5P2KG-JA	Tape & Reel	less than 5,000 pcs.	MP
F5QG881M5P2KG-Y	Tape & Reel	15,000pcs	MP
F5QG881M5P2KG-Q	Bulk	few pcs.	MP

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

\*MP : Mass Production

## 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.

**TAIYO YUDEN**