



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 8 Rx (50/100ohm Balance)	DATE	June 5, 2012
Part Number	F5QG942M5P2KB	Version 1.4 a	Final

Table 1. Electrical specifications

Passband: 925 ~ 960 MHz						
Item	Condition	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 - 960 MHz	-	2.2	2.8	dB(*1)	@927.4-957.6 MHz
Ripple	925 - 960 MHz	-	0.8	1.8	dB	@927.4-957.6 MHz
Absolute Attenuation	DC - 880 MHz	50	60	-	dB	
	880 - 915 MHz	48	56	-	dB	@880-912.6 MHz
	980 - 1020 MHz	23	30	-	dB	
	1020 - 2880 MHz	35	48	-	dB	
	2880 - 6000 MHz	30	46	-	dB	
VSWR(Input)	925 - 960 MHz	-	1.8	2.1		@927.4-957.6 MHz
VSWR(Output)	925 - 960 MHz	-	1.7	2.1		@927.4-957.6 MHz
Amplitude balance (S ₂₁ /S ₃₁)	925-960	-1.0	-0.4/+0.0	+1.0	dB	@927.4-957.6 MHz
Phase balance ((∠S ₂₁ -∠S ₃₁)+180)	925-960	-10	-1/+3	+10	deg	@927.4-957.6 MHz
Input Impedance		50			Ohm	
Output Impedance		100			Ohm	
Device Size		1.1typ.x0.9typ.x0.5max.			°C	
Operating temp.		-30 ~ +85			°C	

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



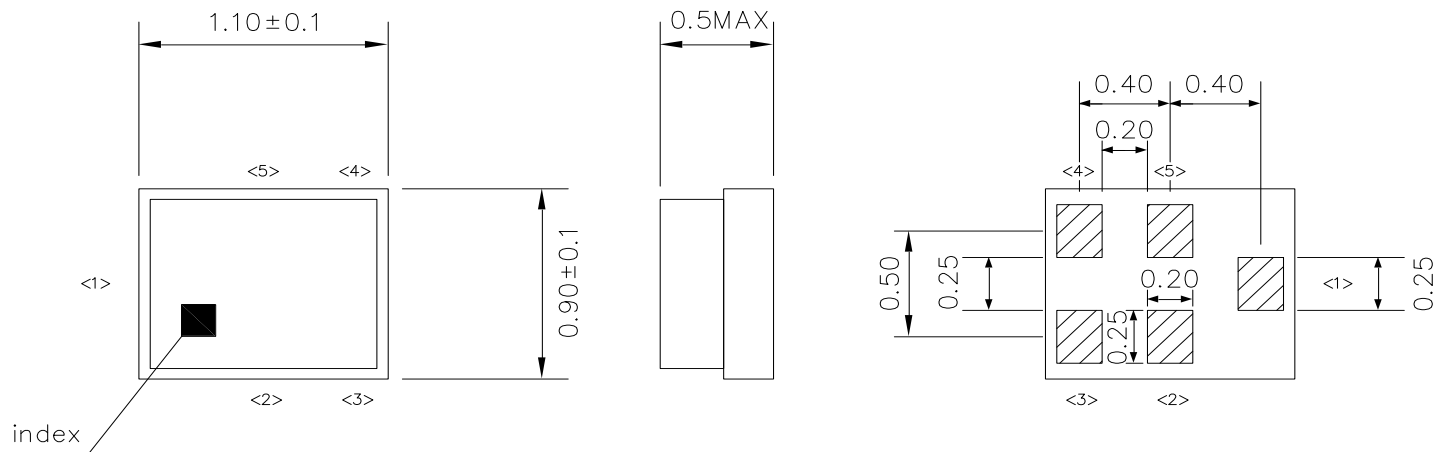
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Dimensions

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

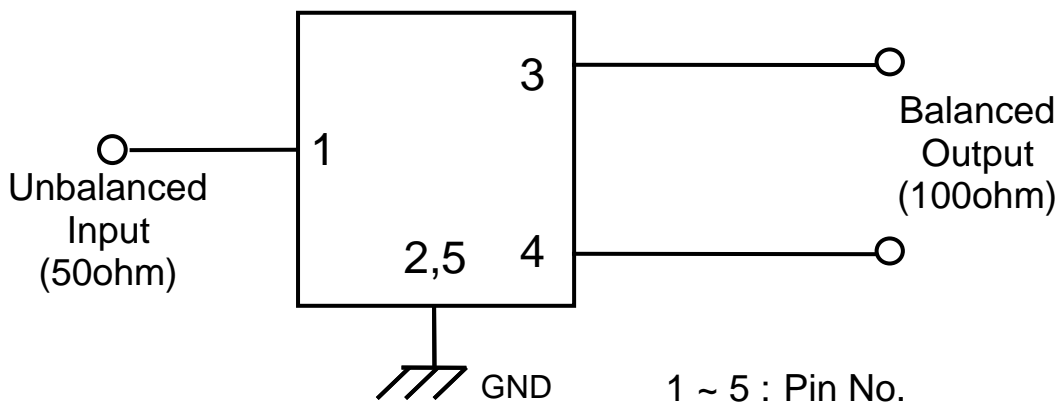


Unit : mm

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





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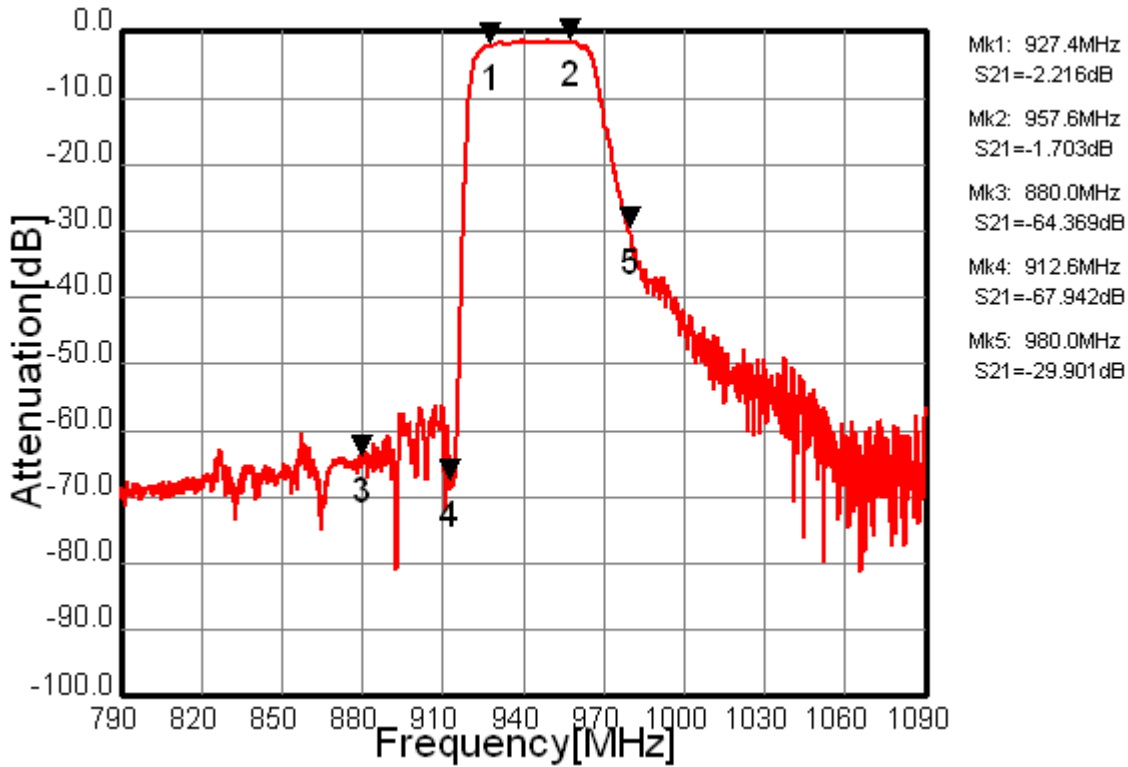


Fig.1 Pass-band Characteristics

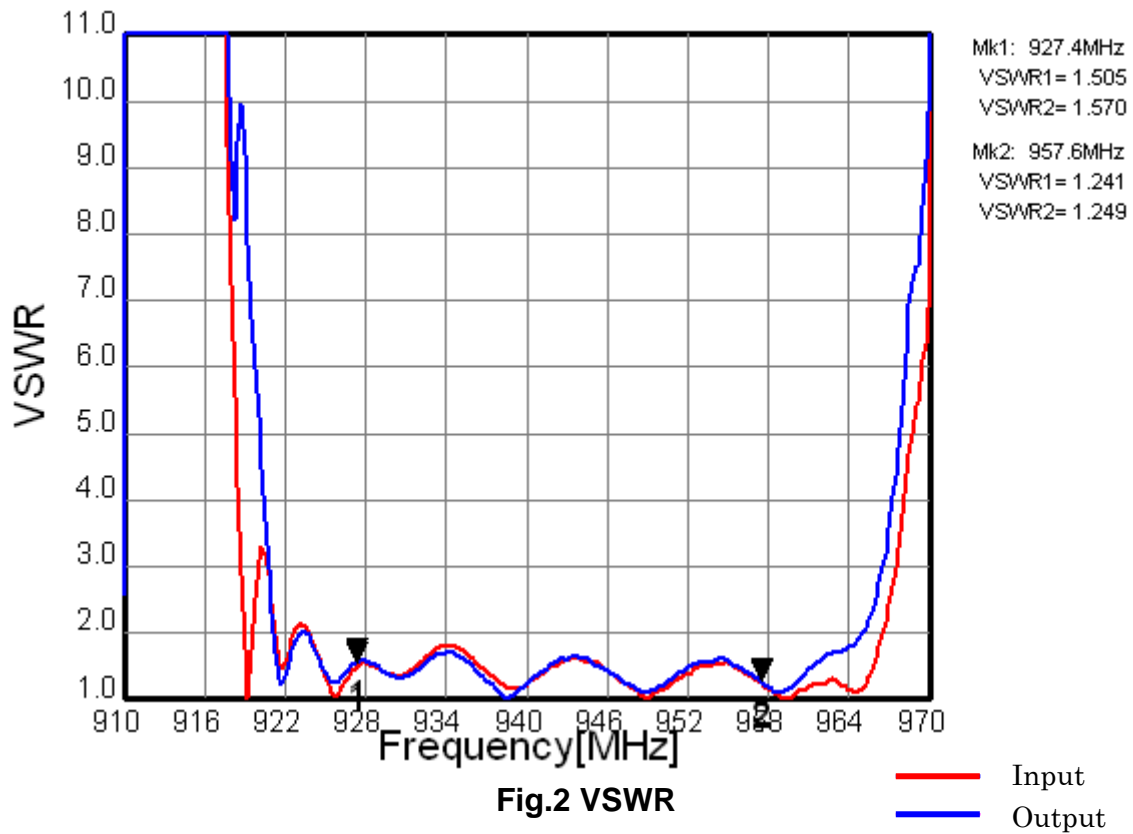


Fig.2 VSWR

— Input
— Output



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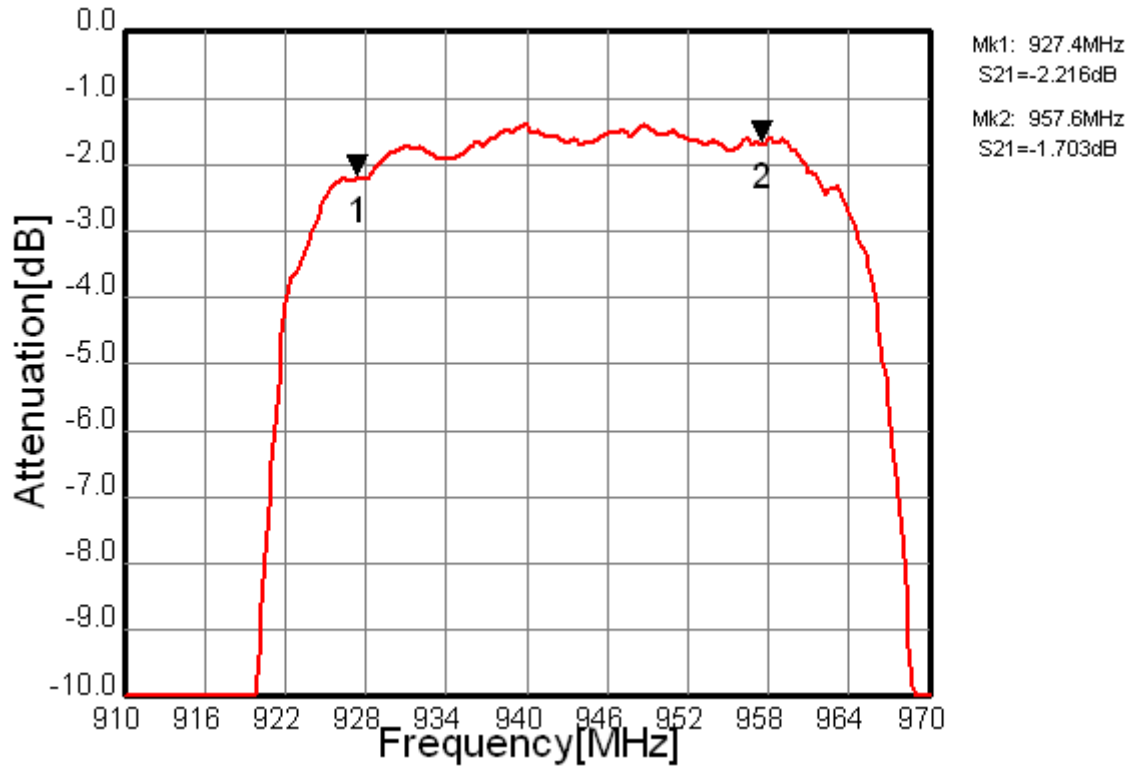


Fig.3 In-band Characteristics

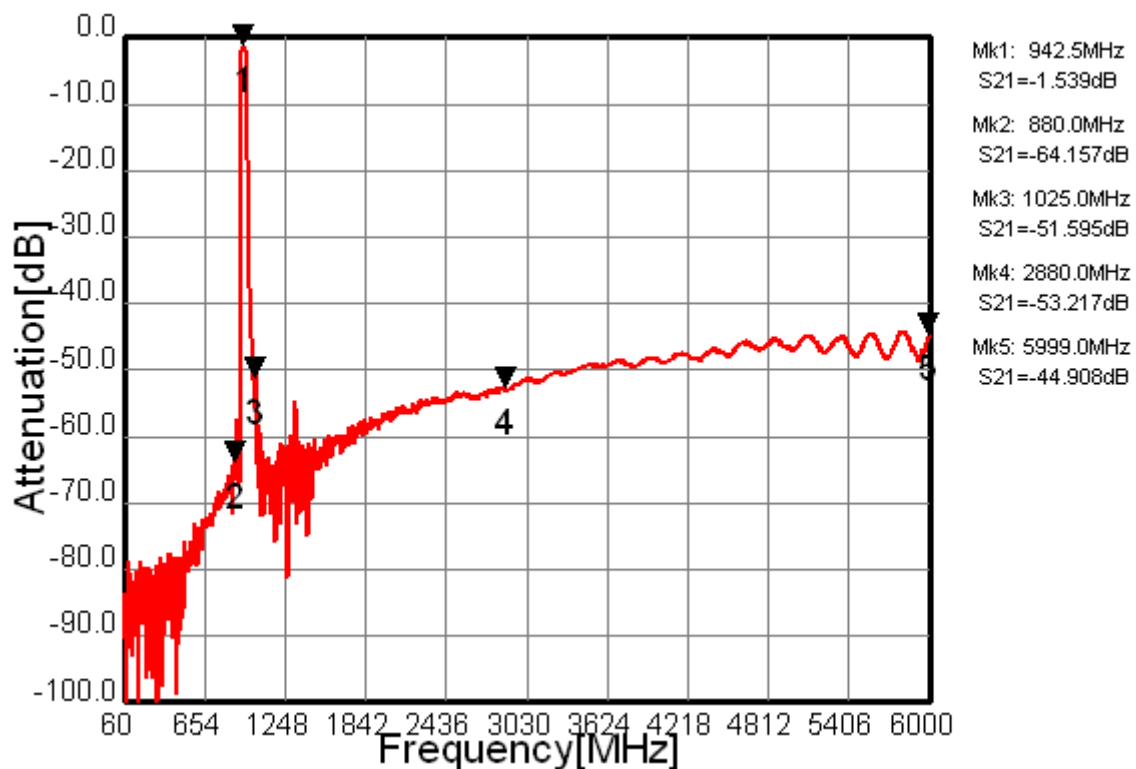


Fig.4 Wide-band Characteristics



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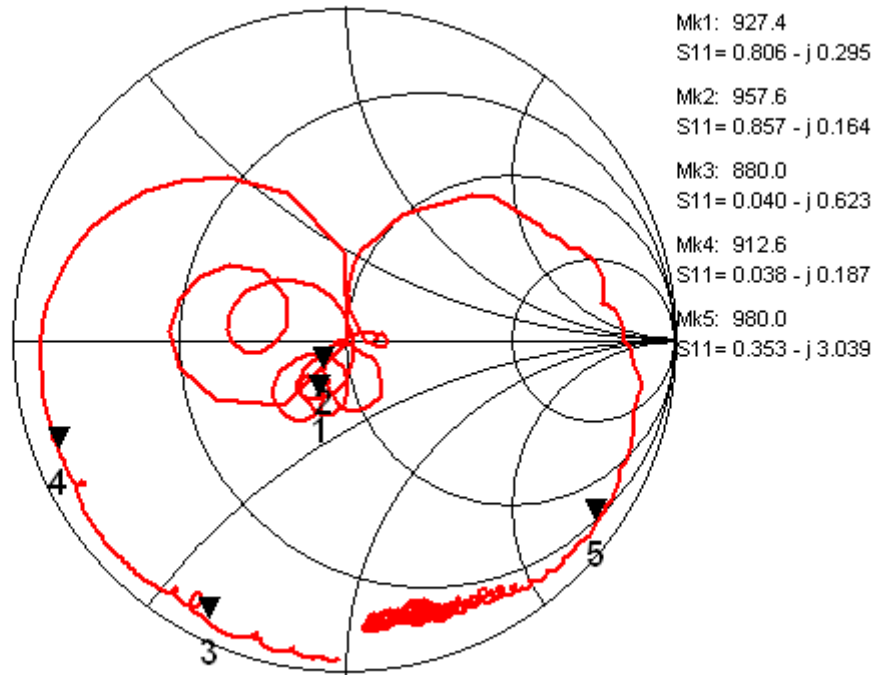


Fig.5 Input Impedance

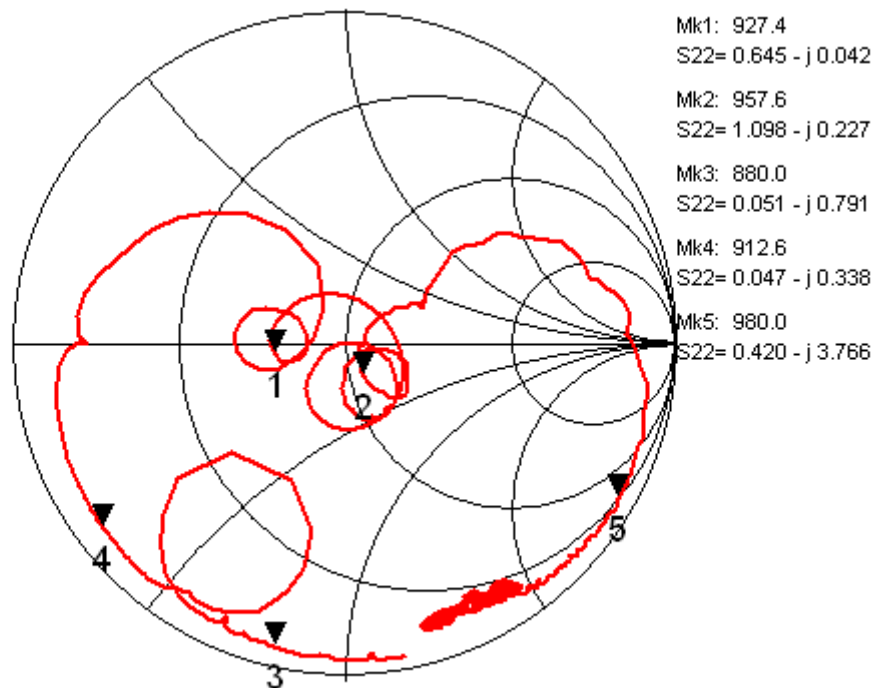


Fig.6 Output Impedance



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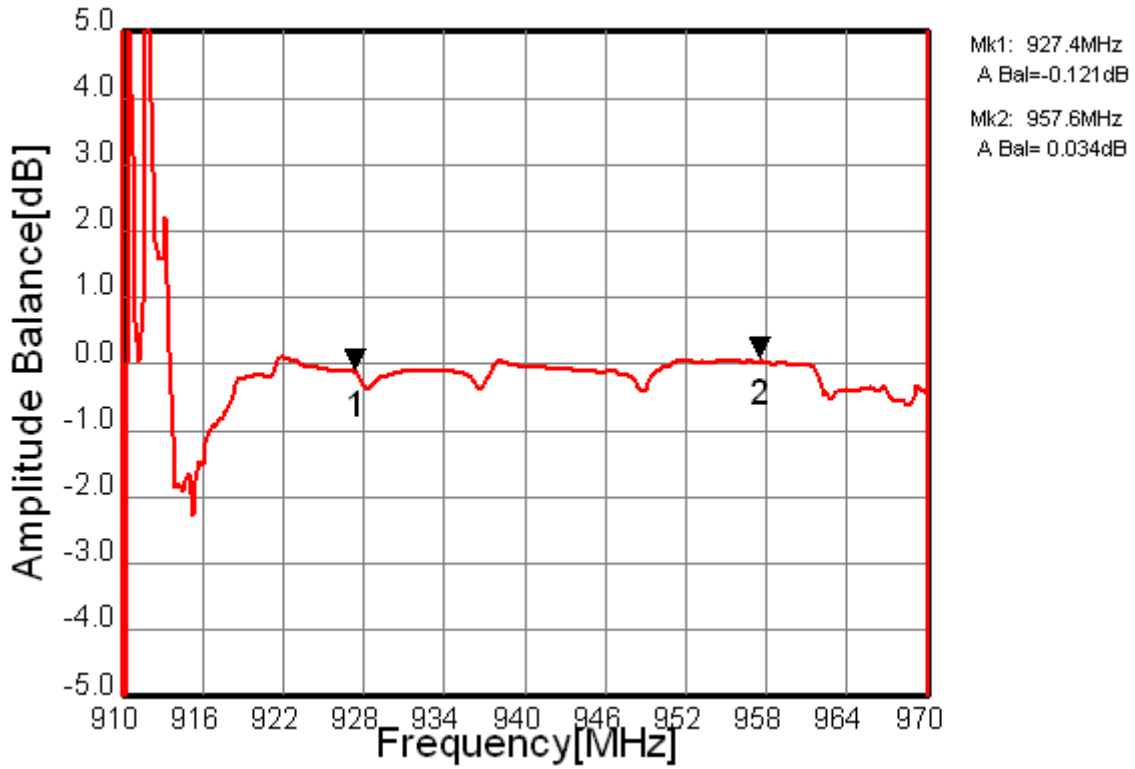


Fig.7 Amplitude Balance

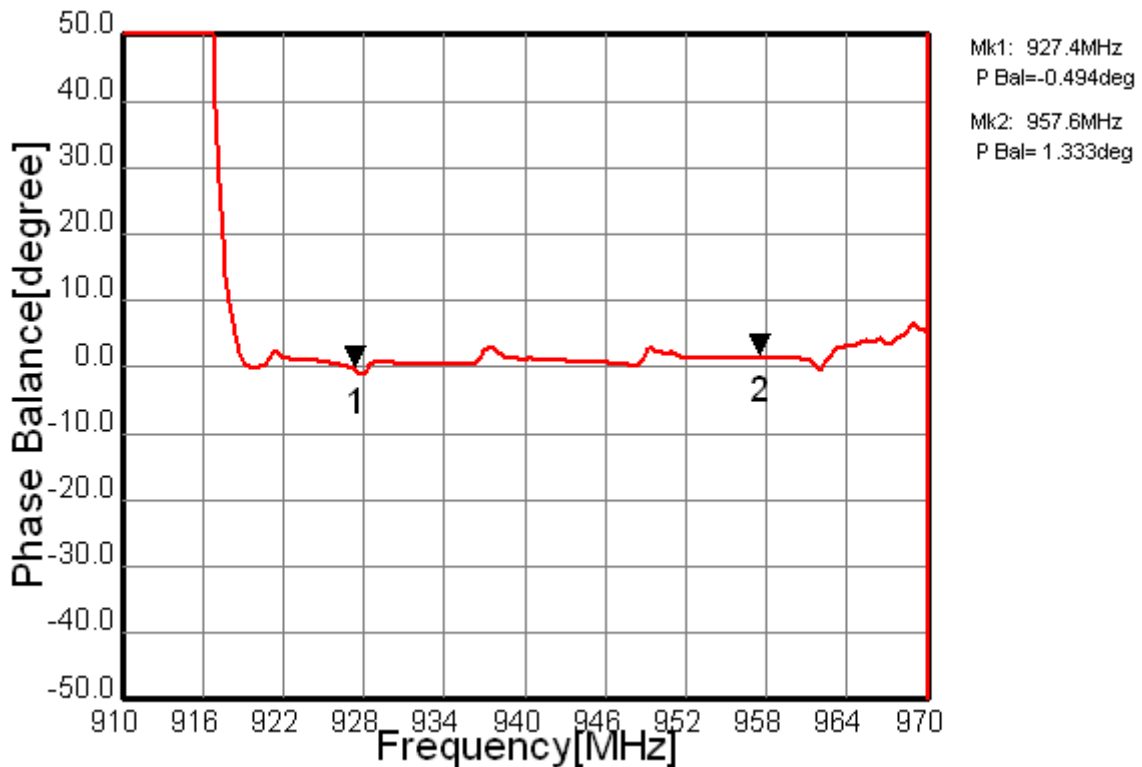


Fig.8 Phase Balance



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Ordering Code

Ordering Code	Packing	Reel size	Status
F5QG942M5P2KB-J	Tape & Reel	5,000pcs.	MP
F5QG942M5P2KB-JA	Tape & Reel	less than 5,000 pcs.	MP
F5QG942M5P2KB-Y	Tape & Reel	15,000pcs	MP
F5QG942M5P2KB-Q	Bulk	few pcs.	MP

*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.)

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

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact TAIYO YUDEN in advance.

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.