



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	GSM900-Rx (50/150ohm)	Date	March 31,2010
Part Number	FAR-F5QB-942M50-P2BB	Version 2.1 b	

Table 1. Electrical specifications

Pass Band (925-960MHz)						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	925-960	-	1.6	2.4	dB (*1)	
Ripple	925-960	-	0.5	1.4	dB	
Input VSWR	925-960	-	1.9	2.2	-	
Output VSWR	925-960	-	1.8	2.2	-	
Absolute attenuation	DC-880	40	63	-	dB	
	880-905	28	37	-	dB	
	905-915	20	28	-	dB	
	980-1025	25	33	-	dB	
	1025-2880	37	56	-	dB	
	2880-6000	30	48	-	dB	
Amplitude balance (S ₂₁ /S ₃₁)	925-960	-1.0	-0.2/+0.4	+1.0	dB	
Phase balance (∠S ₂₁ -∠S ₃₁)+180)	925-960	-10	-1/+4	+10	deg	
Input impedance (Unbalanced)		50			Ohm	
Output impedance (Balanced)		150//82nH			Ohm	
Operating temperature		-30 to +85			°C	

(*1) These data include loss that comes from the test board.



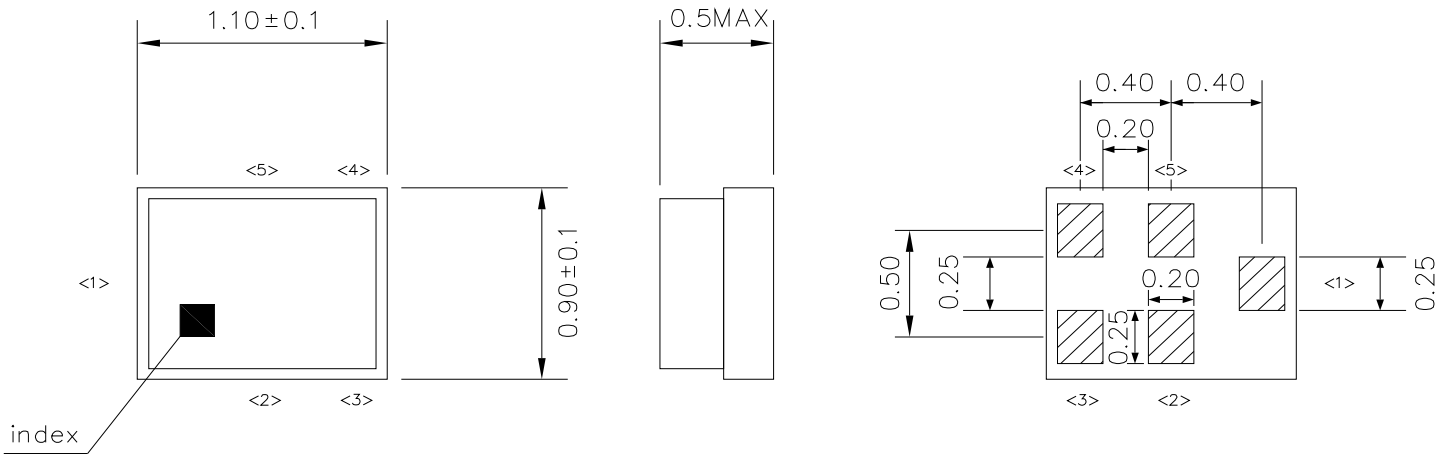
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Dimensions

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

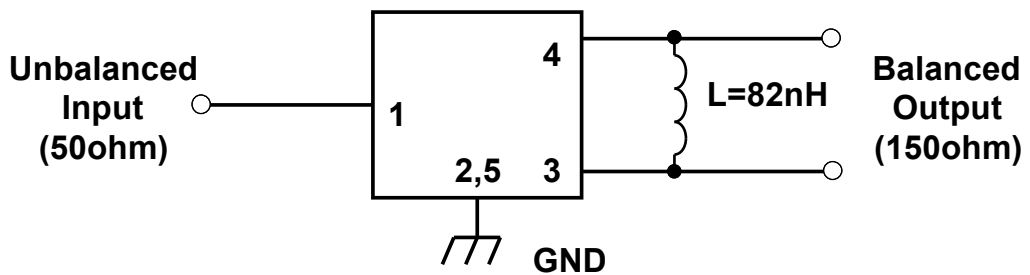


Unit : mm

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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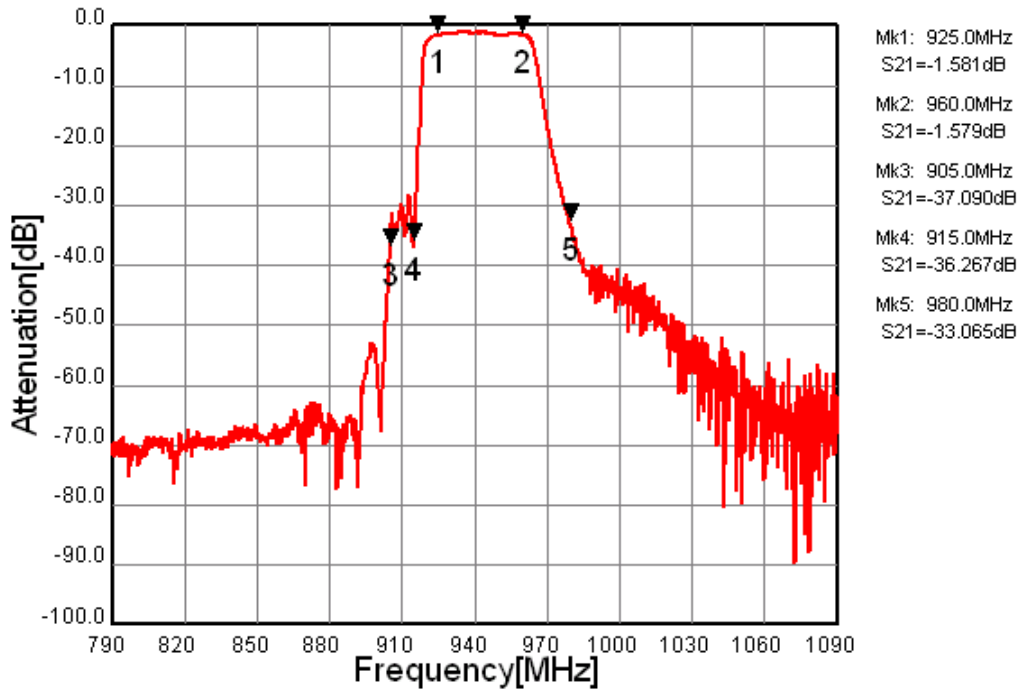


Fig.1 Pass-band Characteristic

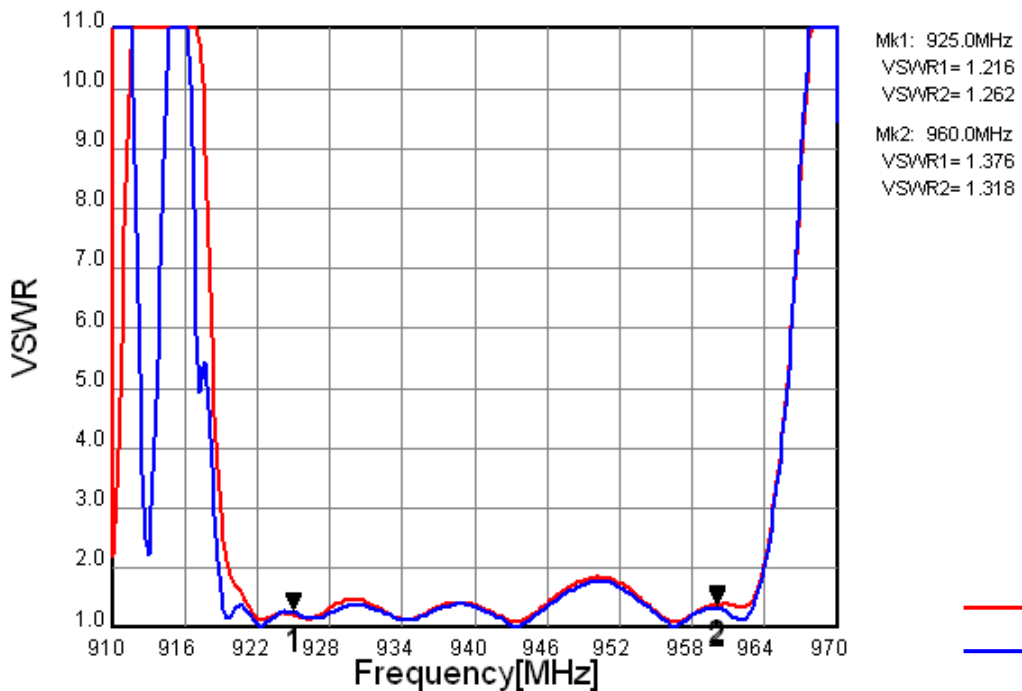


Fig.2 VSWR



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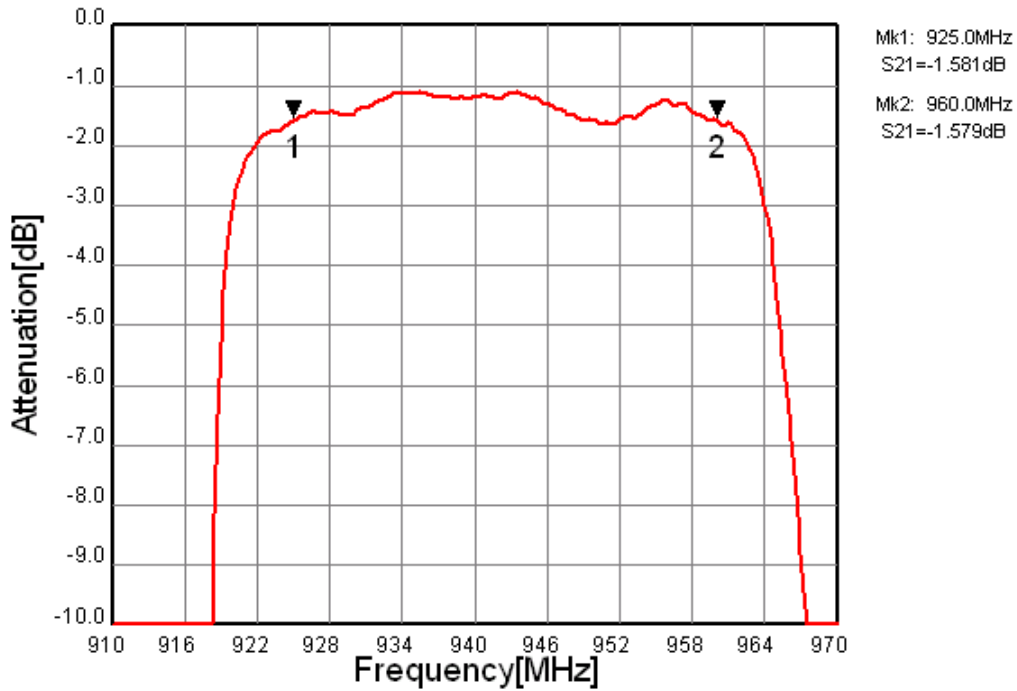


Fig.3 In-band Characteristic

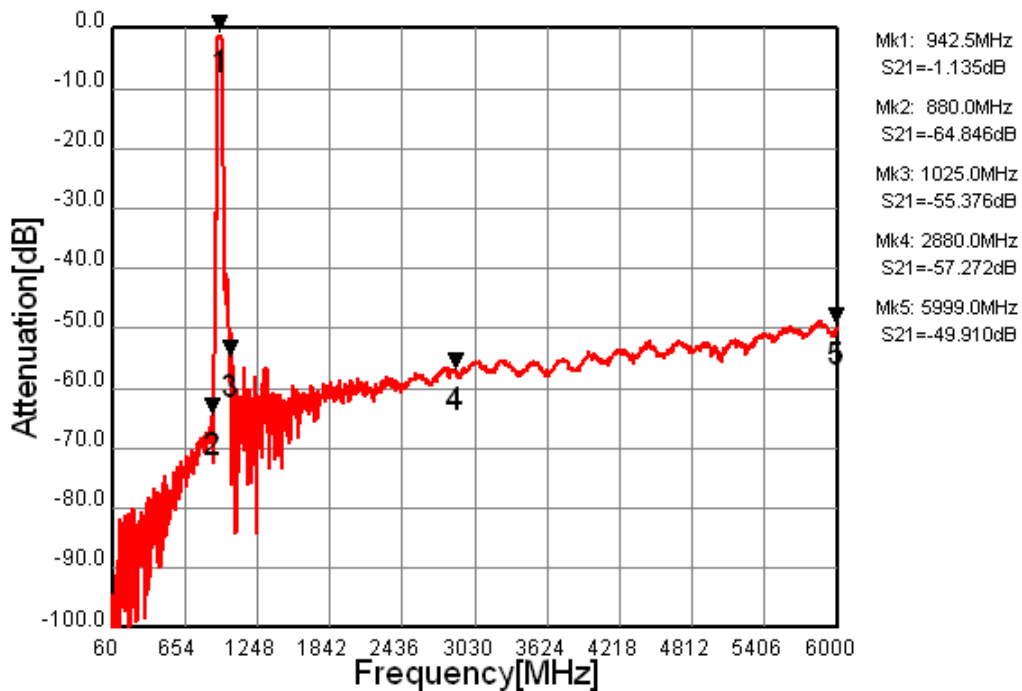


Fig.4 Wide-band Characteristic



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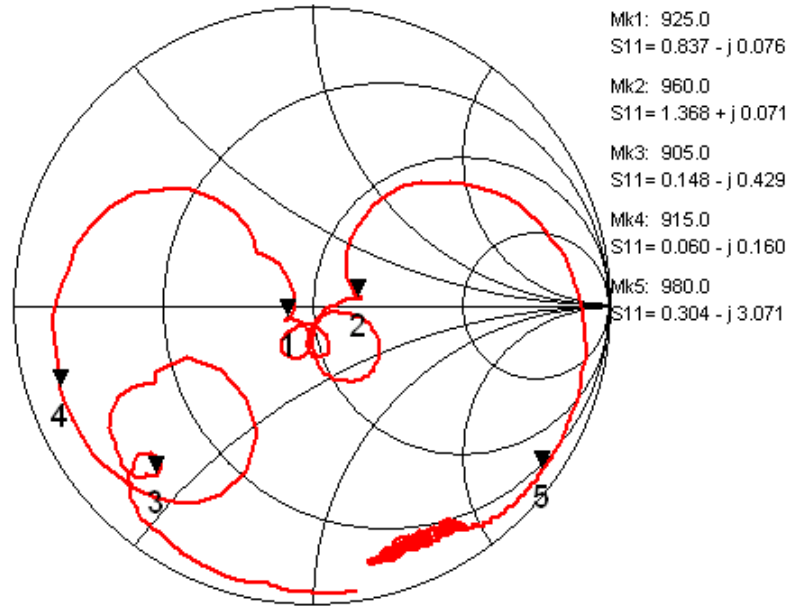


Fig.5 Impedance (S11)

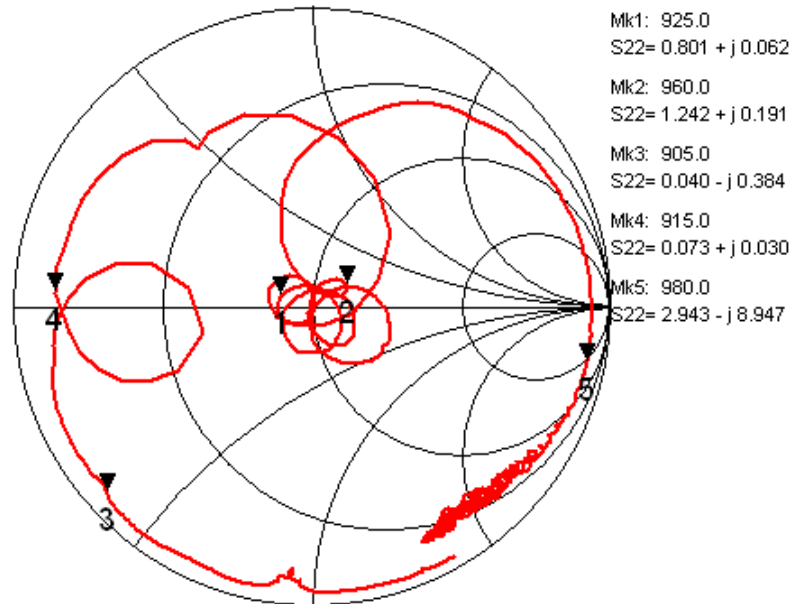


Fig.6 Impedance (S22)



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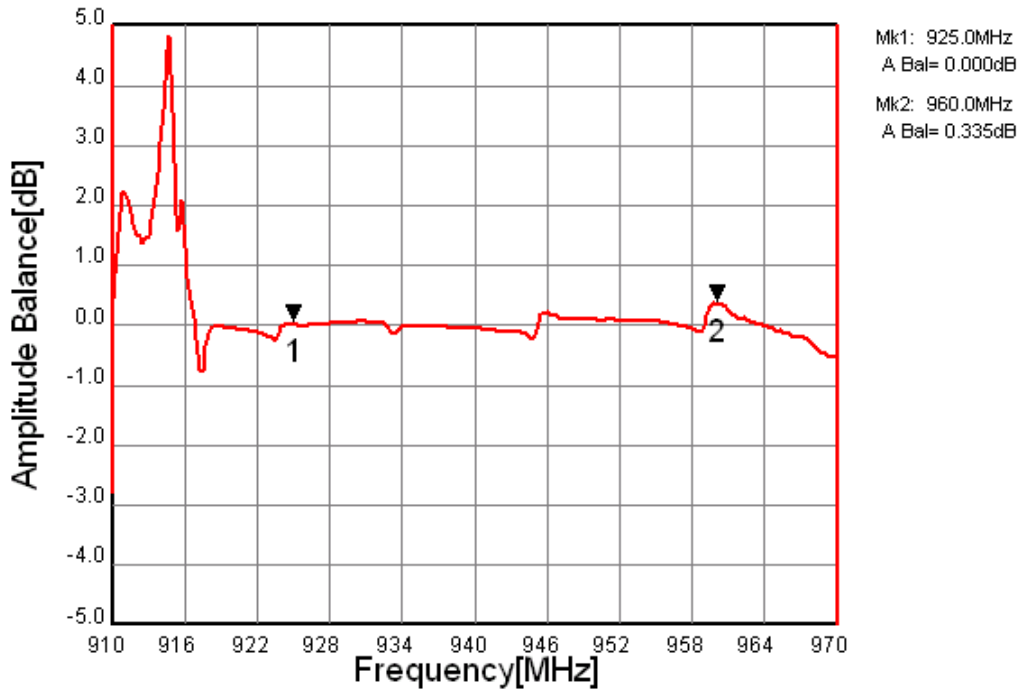


Fig.7 Amplitude Balance

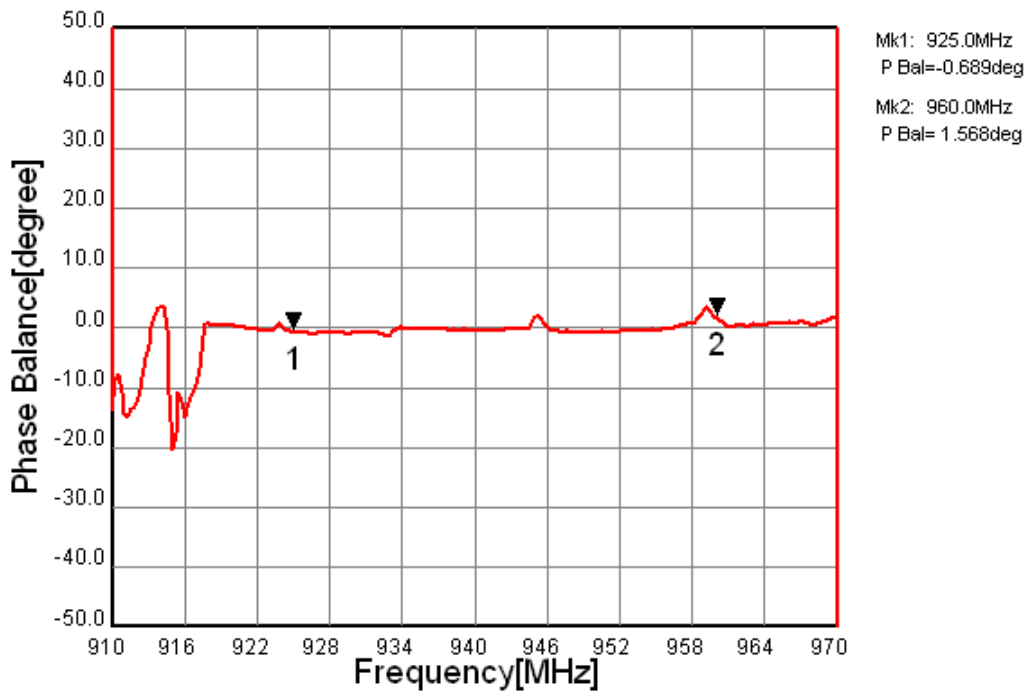


Fig.8 Phase Balance

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