



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	EGSM-Rx (50/100)	Date	March 31, 2010
Part Number	FAR-F5KB-942M50-B4ES	Version 1.0b	

Table 1 Electrical Specification

Passband : 925 ~ 960 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 ~ 960	-	2.4	2.8	dB	
Ripple	925 ~ 960	-	0.4	1.8	dB	
Absolute attenuation	DC ~ 880	40	65	-	dB	
	880 ~ 905	30	60	-	dB	
	905 ~ 915	15	29	-	dB	
	980 ~ 1025	25	31	-	dB	
	1025 ~ 2880	36	57	-	dB	
	2880 ~ 6000	30	45	-	dB	
VSWR(Input)	925 ~ 960	-	1.7	2.2	-	
VSWR(Output)	925 ~ 960	-	1.8	2.2	-	
Amplitude Balance (S ₂₁ /S ₃₁)	925 ~ 960	-1.0	-0.2/ +0.2	+1.0	dB	
Phase Balance (∠S ₂₁ -∠S ₃₁ +180)	925 ~ 960	-10	-1/+2	+10	deg	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	100			ohm	
Input Power	925 ~ 960	-	-	+13	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		1.4typ. x 1.0typ. x 0.50typ.			mm	

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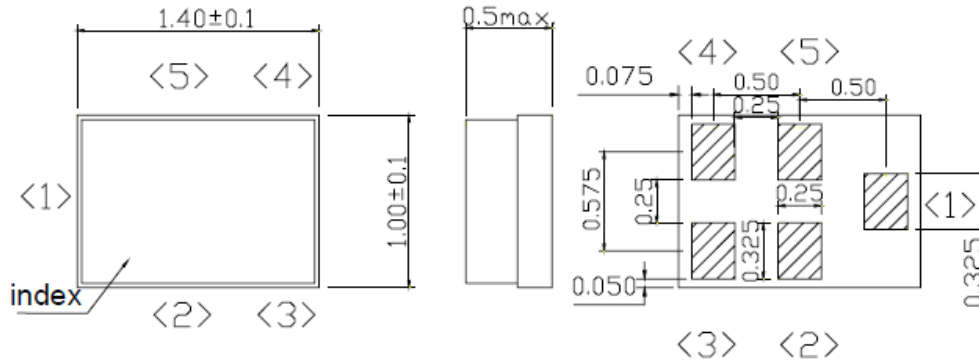
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Dimension

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

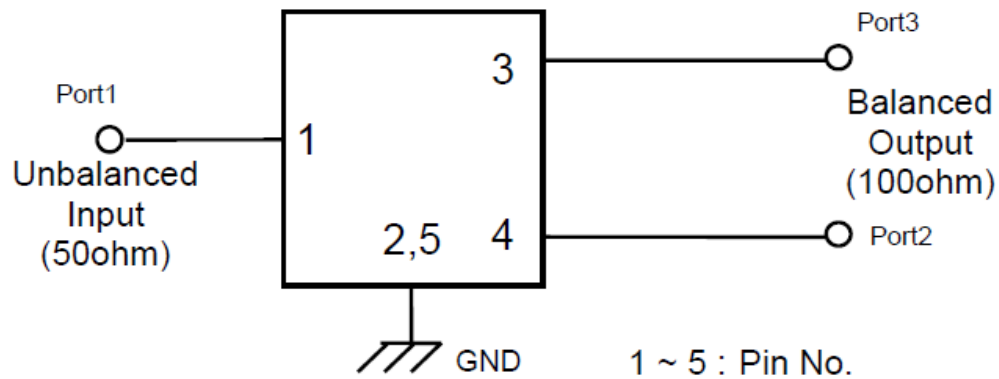


Unit: mm

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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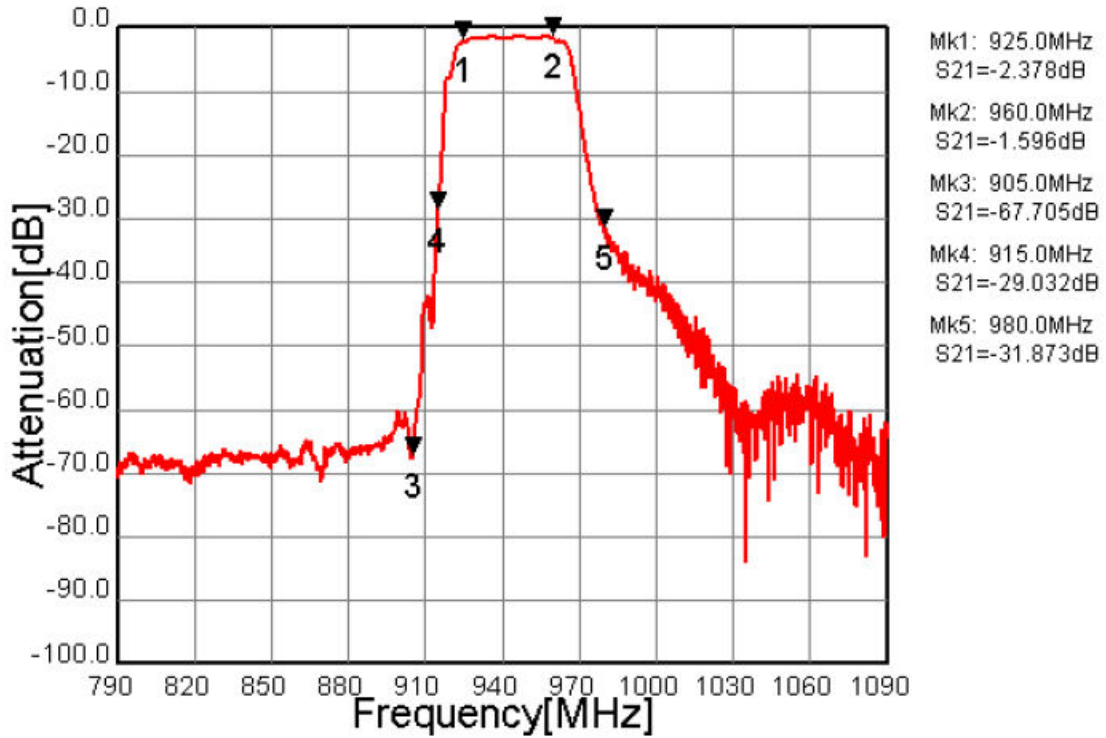


Fig.1 Pass-band Characteristics

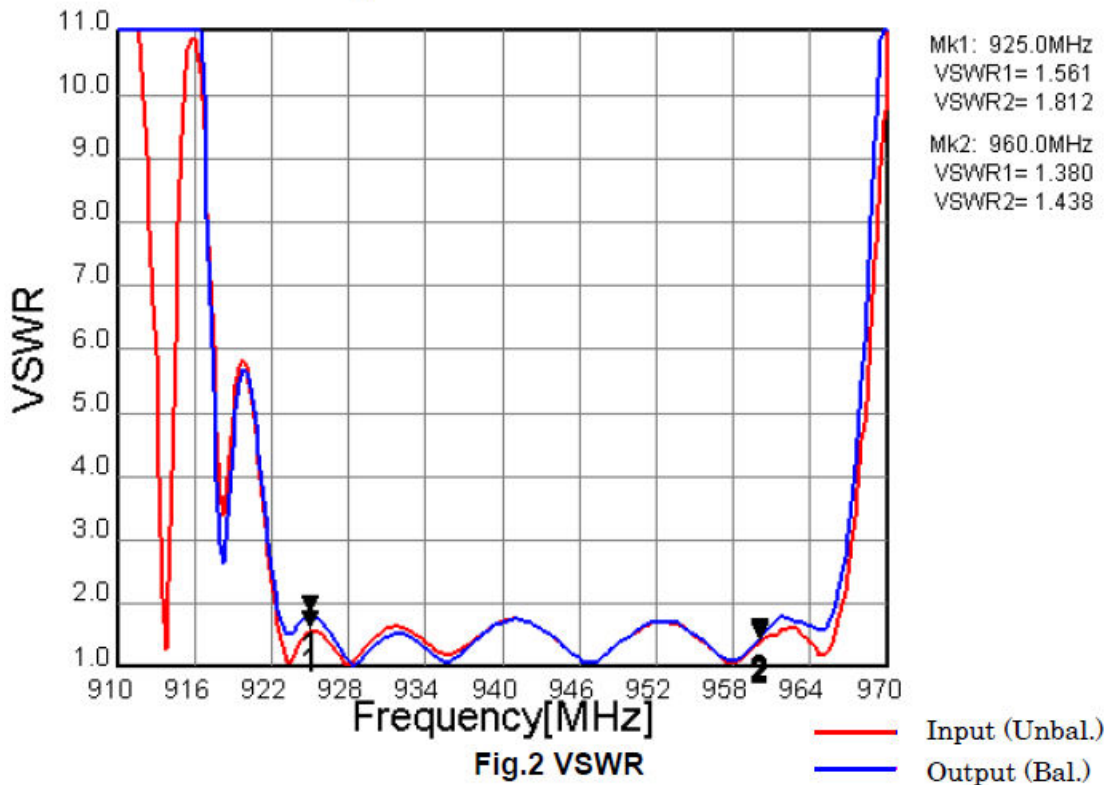


Fig.2 VSWR

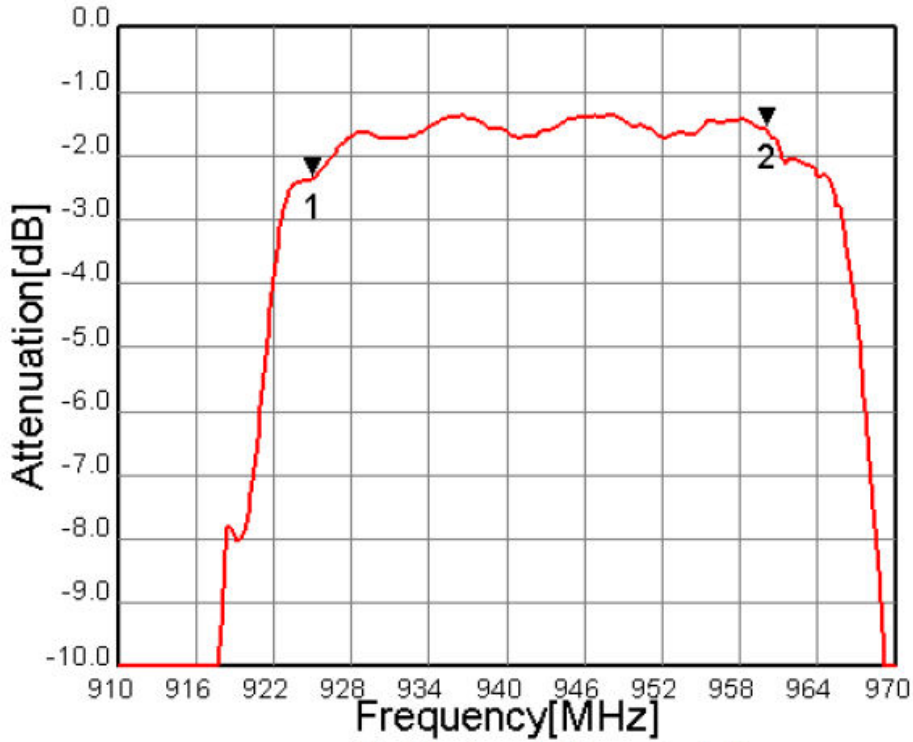
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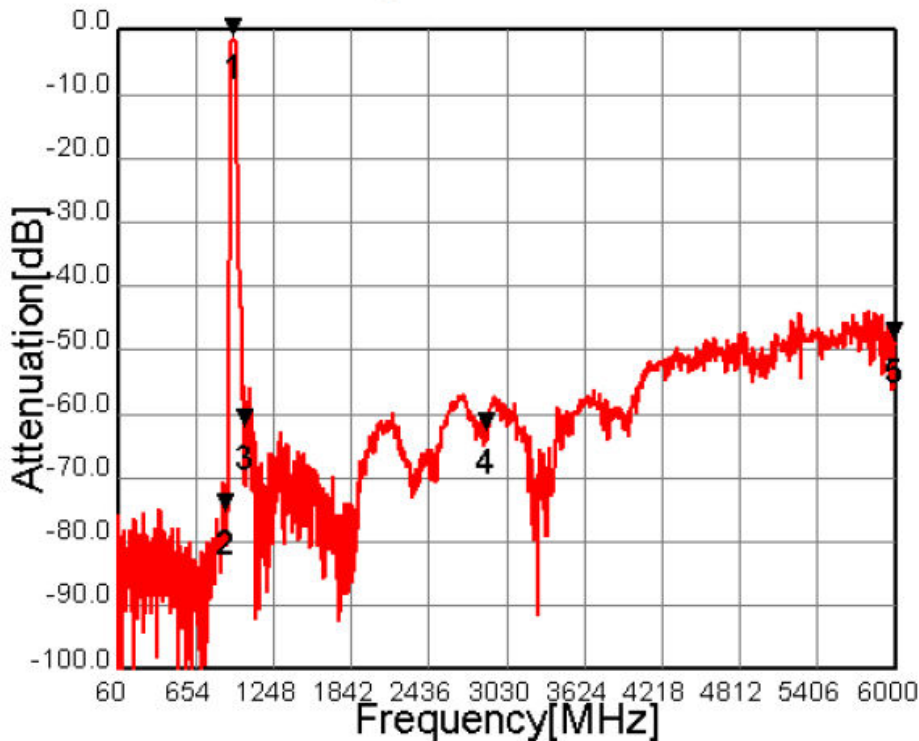
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Mk1: 925.0MHz
S21=-2.378dB

Mk2: 960.0MHz
S21=-1.596dB

Fig.3 In-band Characteristics



Mk1: 942.5MHz
S21=-1.498dB

Mk2: 880.0MHz
S21=-75.811dB

Mk3: 1025.0MHz
S21=-62.623dB

Mk4: 2880.0MHz
S21=-63.045dB

Mk5: 5999.0MHz
S21=-49.084dB

Fig.4 Wide-band Characteristics

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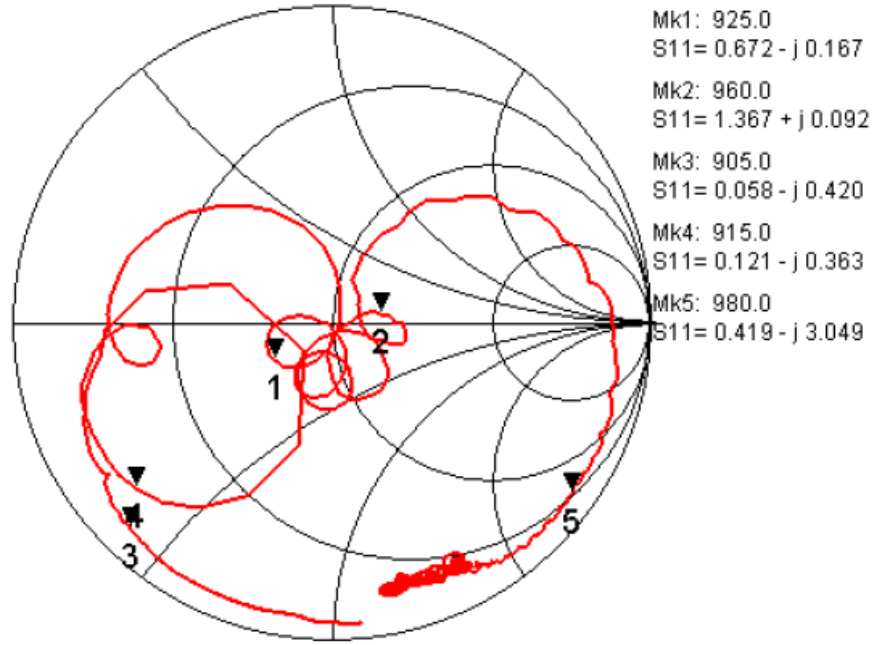


Fig.5 Input Impedance (Unbalance)

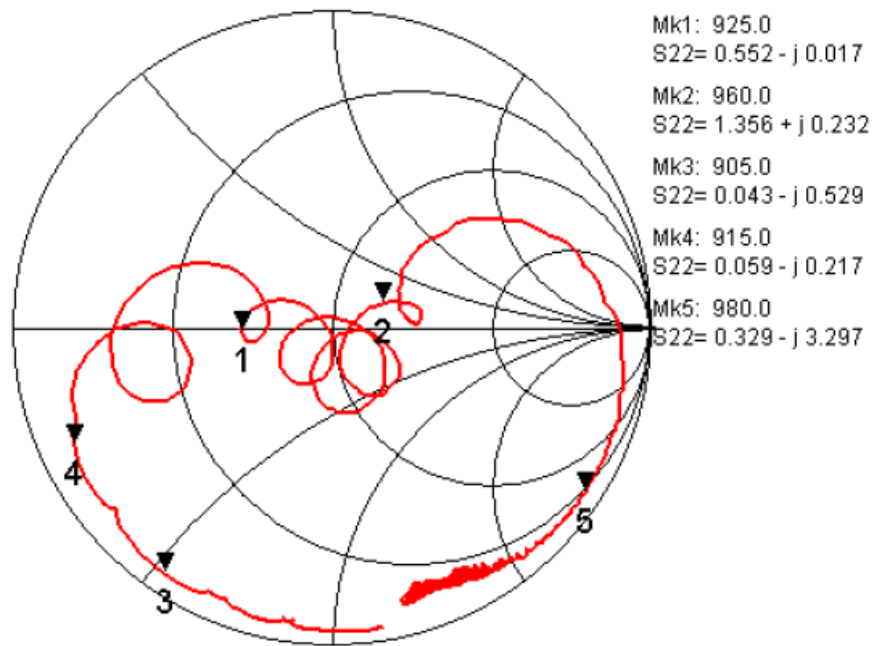


Fig.6 Output Impedance (Balance)

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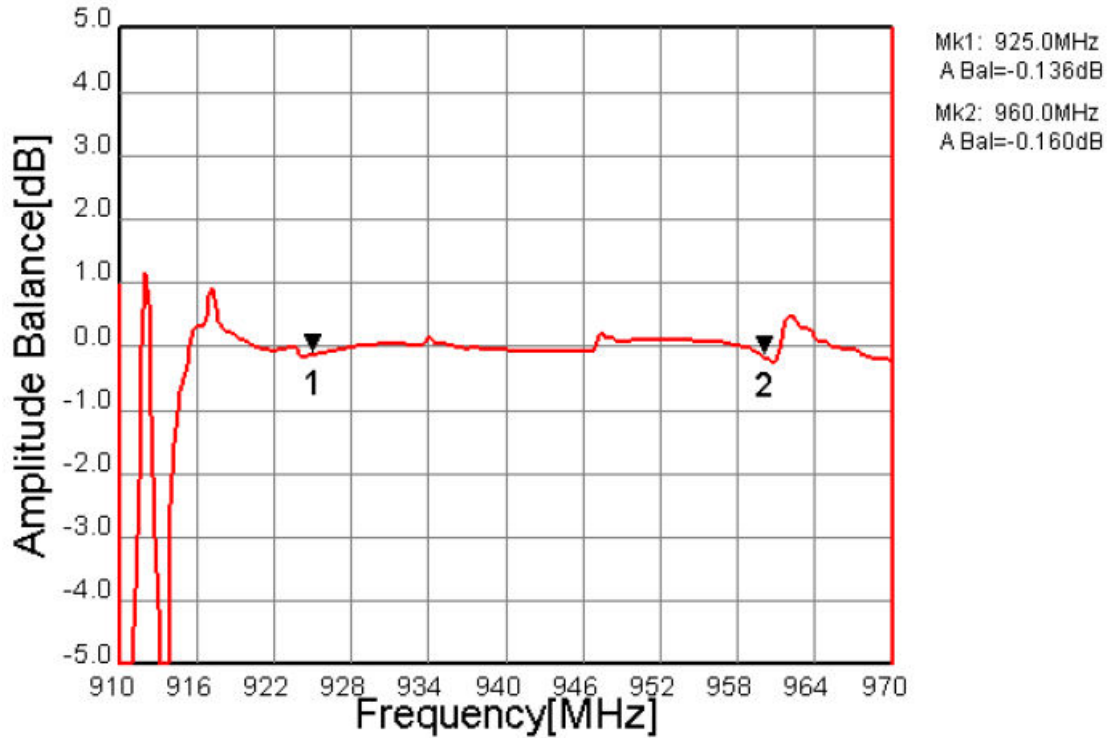


Fig.7 Amplitude Balance

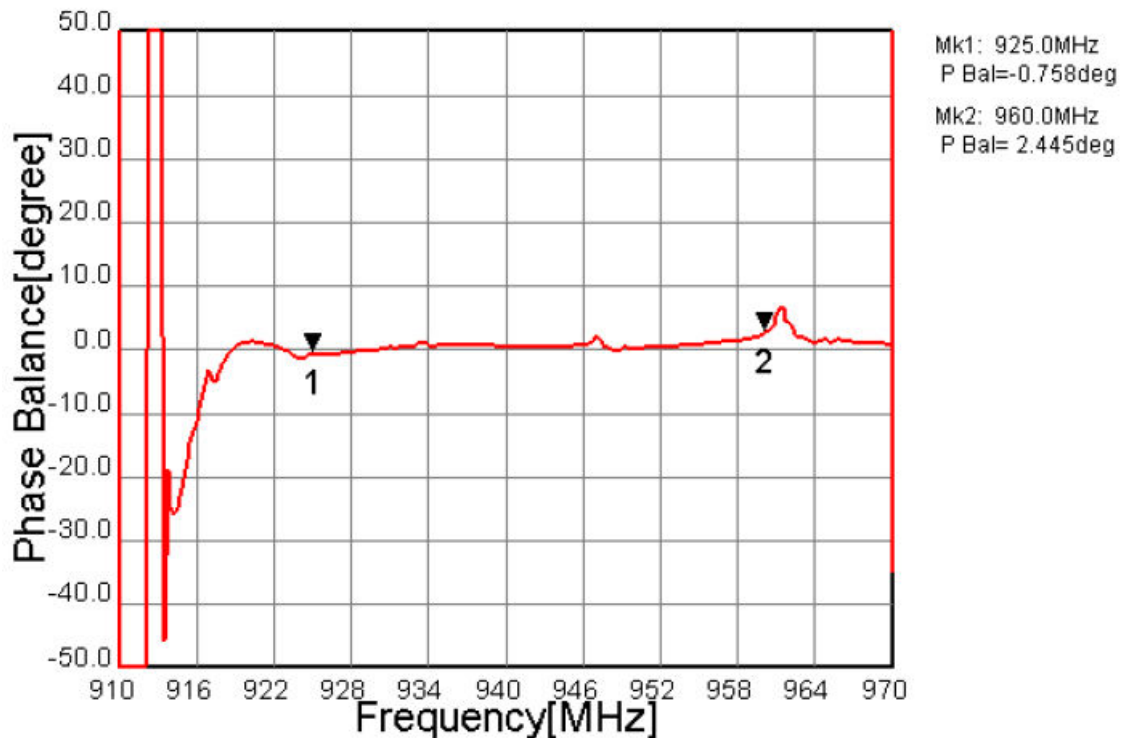


Fig.8 Phase Balance

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