



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G8800-L4AF	Version1.0a	

Table 1. Electrical specifications

Passband:1850.6 ~ 1909.4 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1850.6~1909.4 MHz	-	2.4	3.8	dB	
Ripple	1850.6~1909.4 MHz	-	1.3	2.7	dB	
Absolute attenuation	DC~1570 MHz	20	25	-	dB	
	1570~1580 MHz	24	30	-	dB	
	1580~1770 MHz	24	30	-	dB	
	1770~1829.4 MHz	10	23	-	dB	
	1930.6~1989.4 MHz	27	35	-	dB	
	1989.4~3000 MHz	23	32	-	dB	
	3000~4000 MHz	14	21	-	dB	
	4000~6000 MHz	4	9	-	dB	
VSWR(Input)	1850.6~1909.4 MHz	-	2.0	2.5	-	
VSWR(Output)	1850.6~1909.4 MHz	-	2.0	2.5	-	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Unbalanced	50			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ.x1.0typ.x0.5max.			mm	



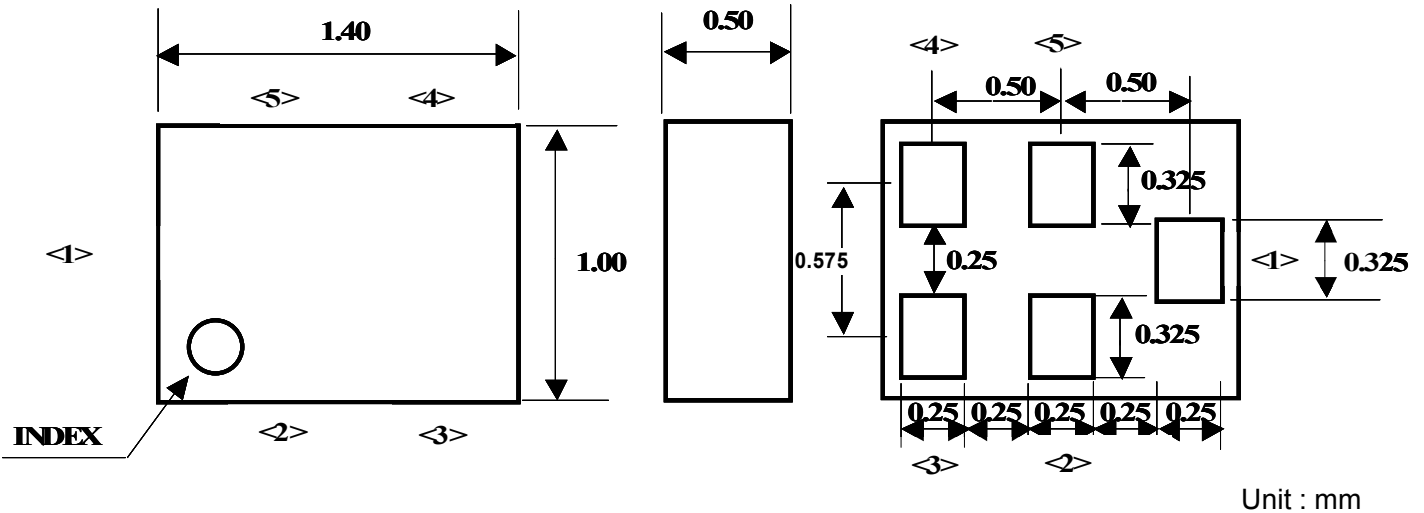
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Dimensions

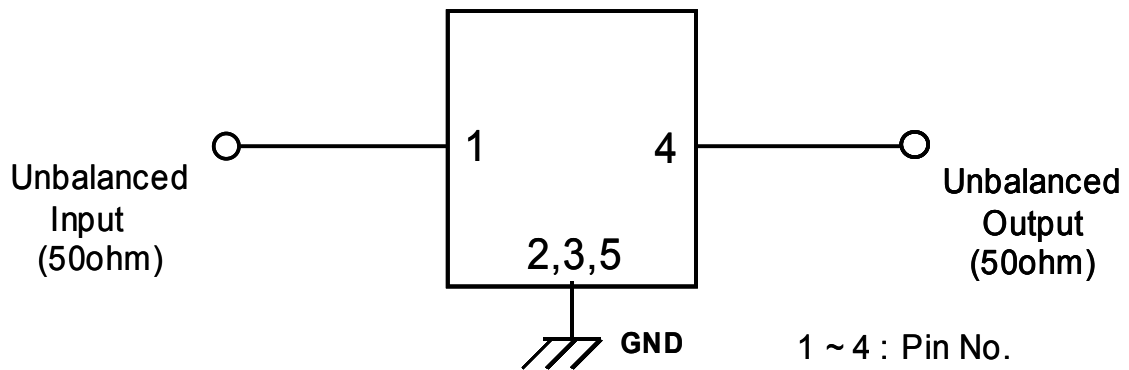
Device size: 1.4typ. x 1.0typ. x 0.5max.



Pin Configuration

Pin No.	Pin name	Description
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

Evaluation Circuit





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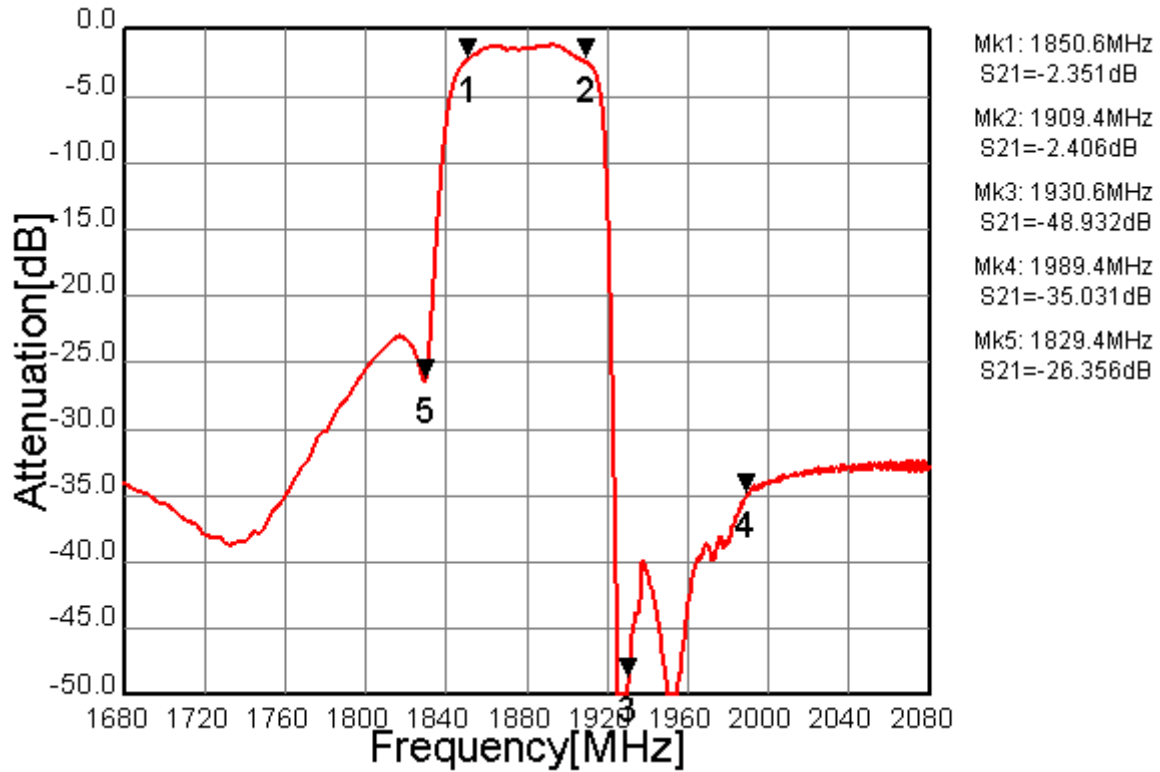


Fig.1 Pass-band Characteristics

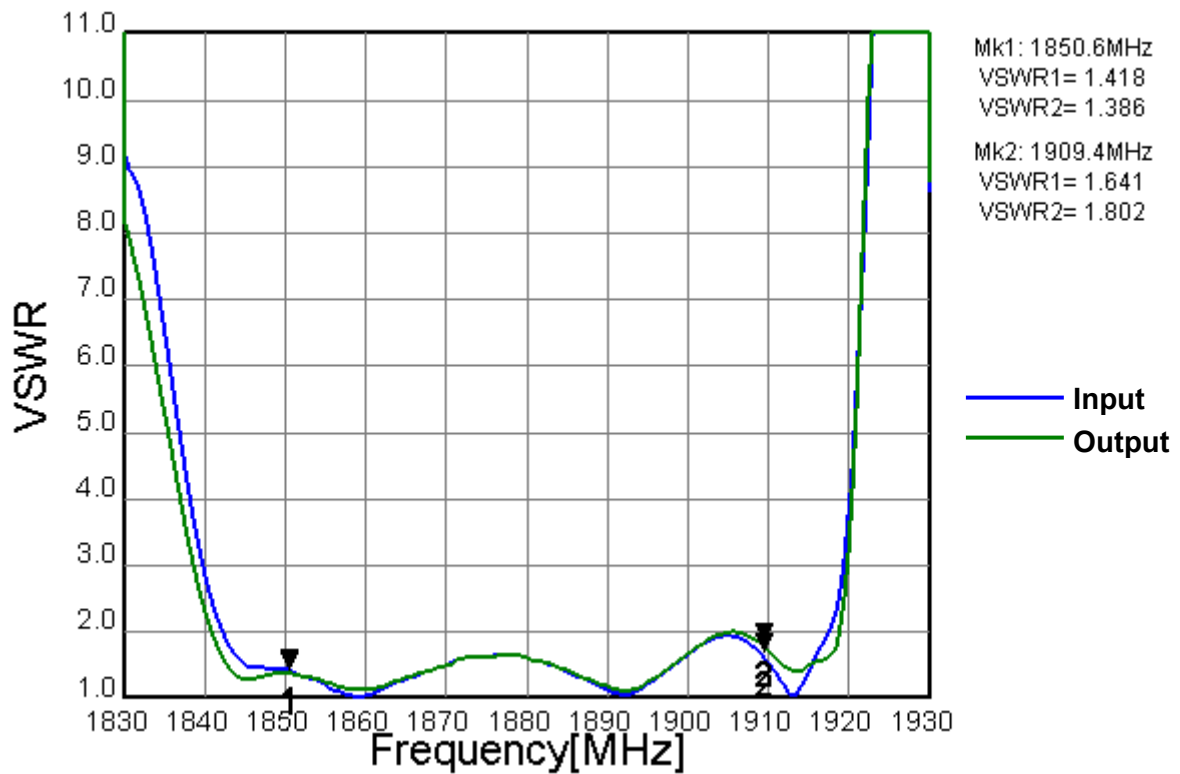


Fig.2 VSWR



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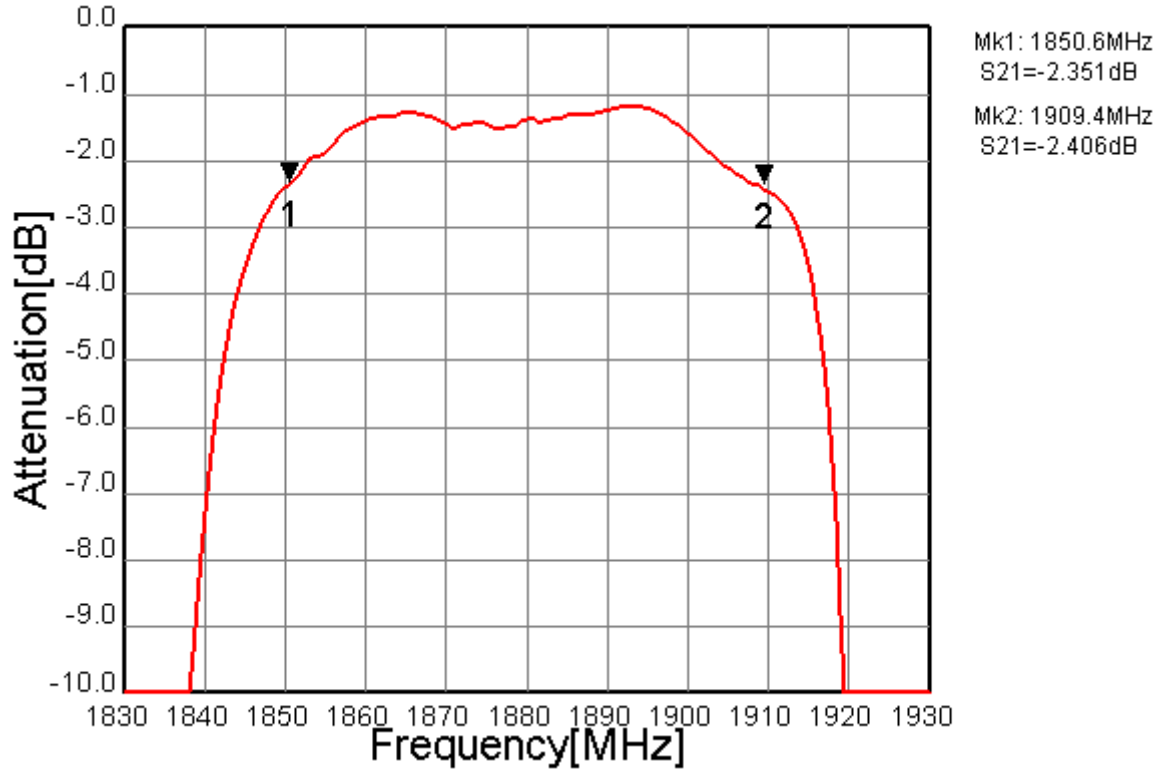


Fig.3 In-band Characteristics

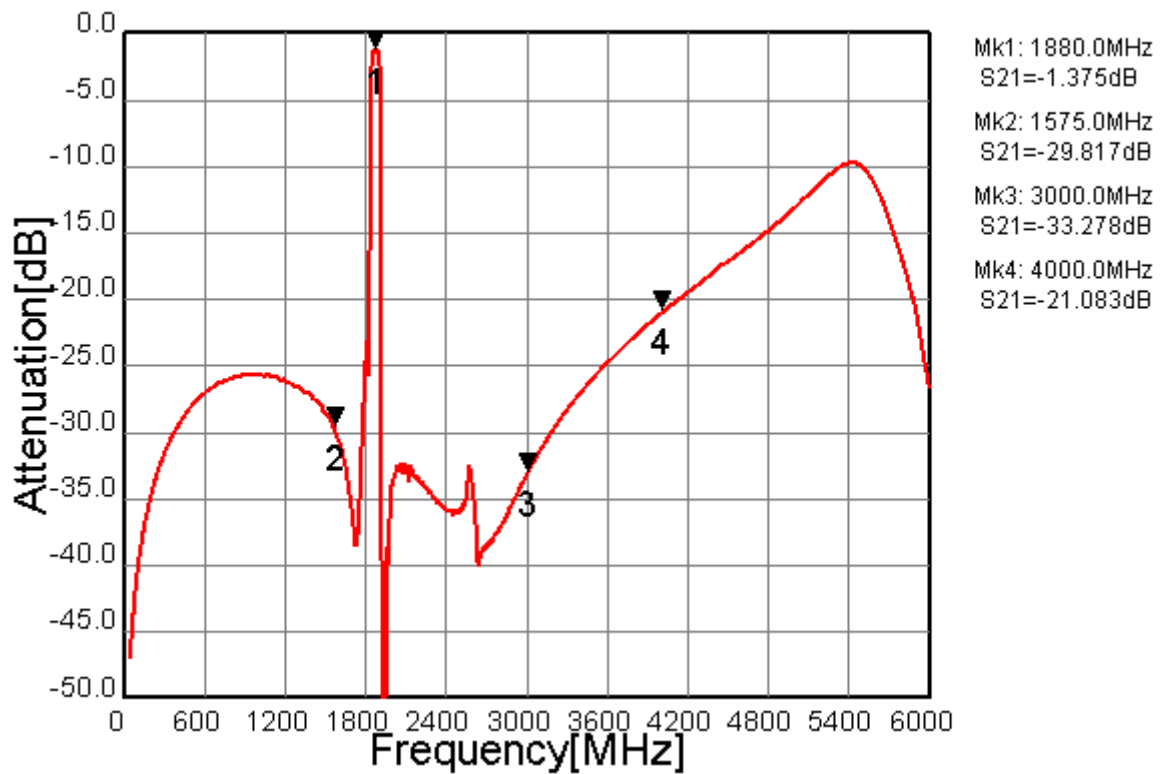


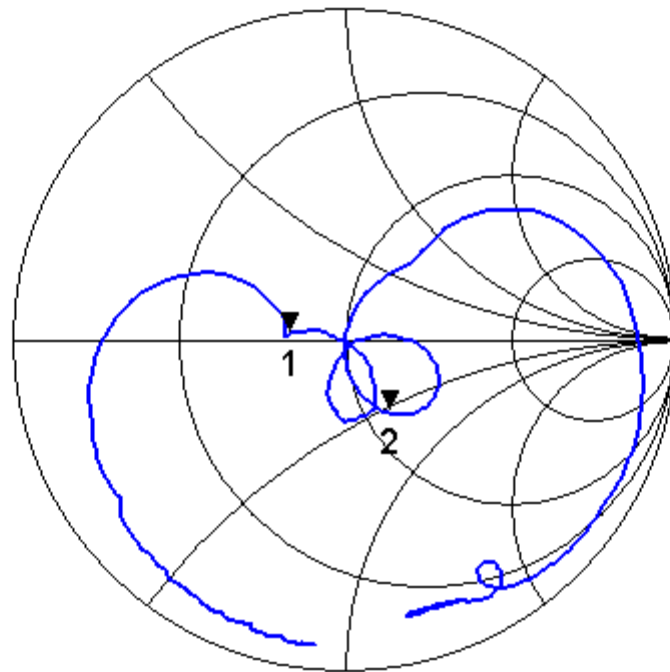
Fig.4 Wide-band Characteristics



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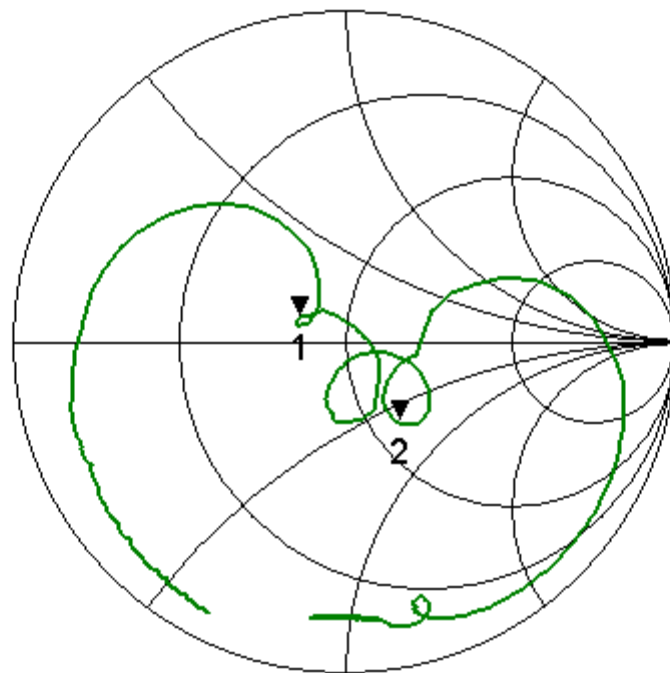
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Mk1: 1850.6
S11= 0.704 + j 0.030
Mk2: 1909.4
S11= 1.166 - j 0.555

Fig.5 Input Impedance



Mk1: 1850.6
S22= 0.740 + j 0.113
Mk2: 1909.4
S22= 1.203 - j 0.651

Fig.6 Output Impedance