



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-LAN, Bluetooth	Date	March 31, 2010
Part Number	FAR-F6KA-2G4418-D4CU	Version 6.0f	

Table 1. Electrical specifications

Item	Condition (MHz)	Version 6.0f			Unit	Remarks
		Min	Typ	Max		
Insertion Loss	2400 – 2483.5	-	2.6	3.3	dB	
Ripple	2400 – 2483.5	-	1.0	2.0	dB	
VSWR (Input)	2400 – 2483.5	-	1.8	2.2	dB	
VSWR (Output)	2400 – 2483.5	-	1.9	2.2	dB	
Absolute attenuation	DC – 1580	35	44	-	dB	
	1710 – 1805	35	47	-	dB	
	1805 – 1990	34	40	-	dB	
	2110 – 2170	34	39	-	dB	
	4800 – 5000	13	20	-	dB	
Max. Input Power	-	-	-	+10	dBm	Passband,CW
Input impedance	-	50//8.2nH			Ohms	
Output impedance	-	50//12.0nH			Ohms	
Temperature range	Operating	-30 to +85			°C	
	Storage	-40 to +100			°C	
Package size	-	1.4typ x 1.0typ x 0.5max			mm	



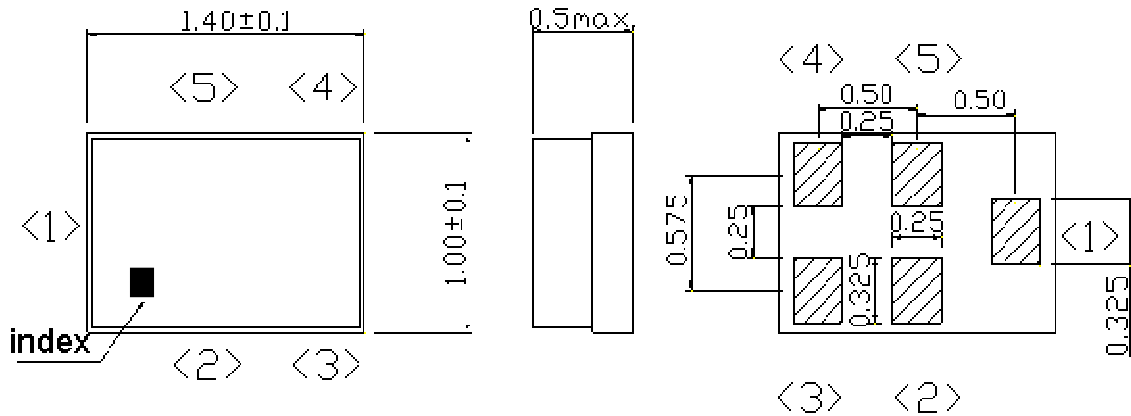
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Dimensions

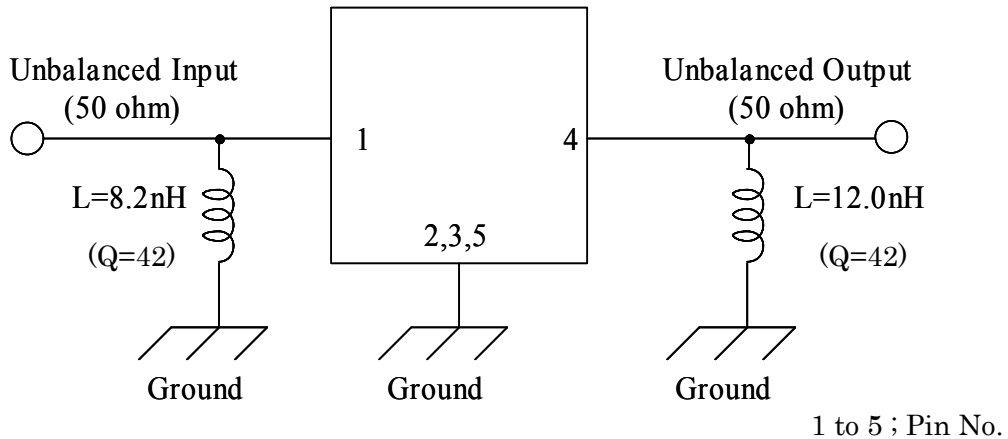
Device size: 1.4typ. x 1.0typ. x 0.5max



Pin Configuration

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

Evaluation Circuit



1 to 5 ; Pin No.



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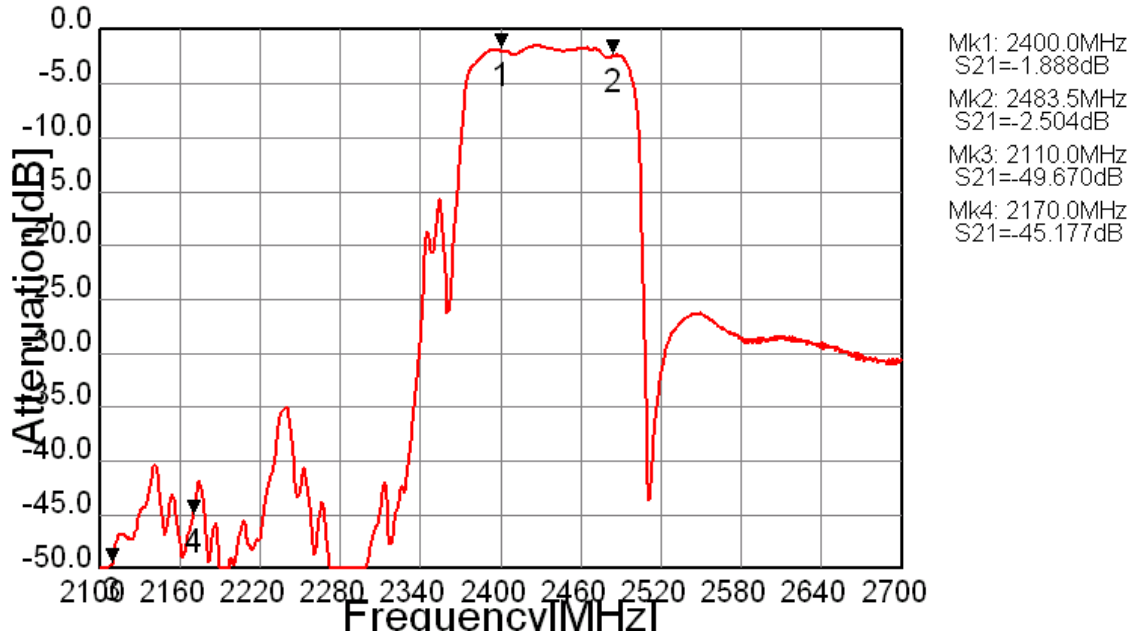


Figure 1. Pass-band Characteristics

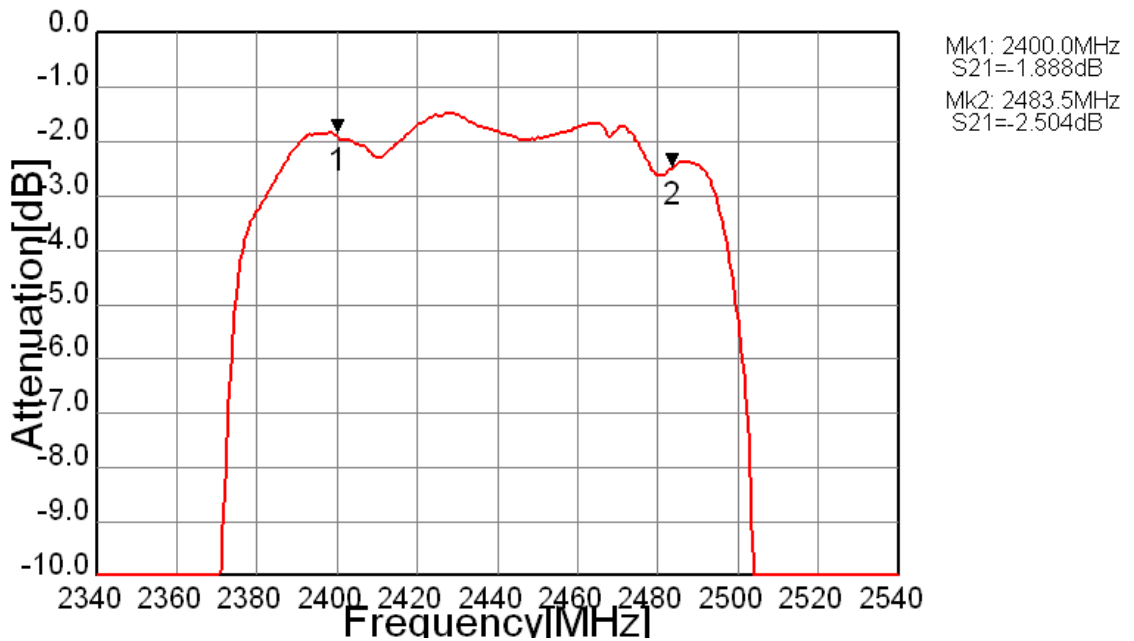


Figure 2. In-band Characteristics



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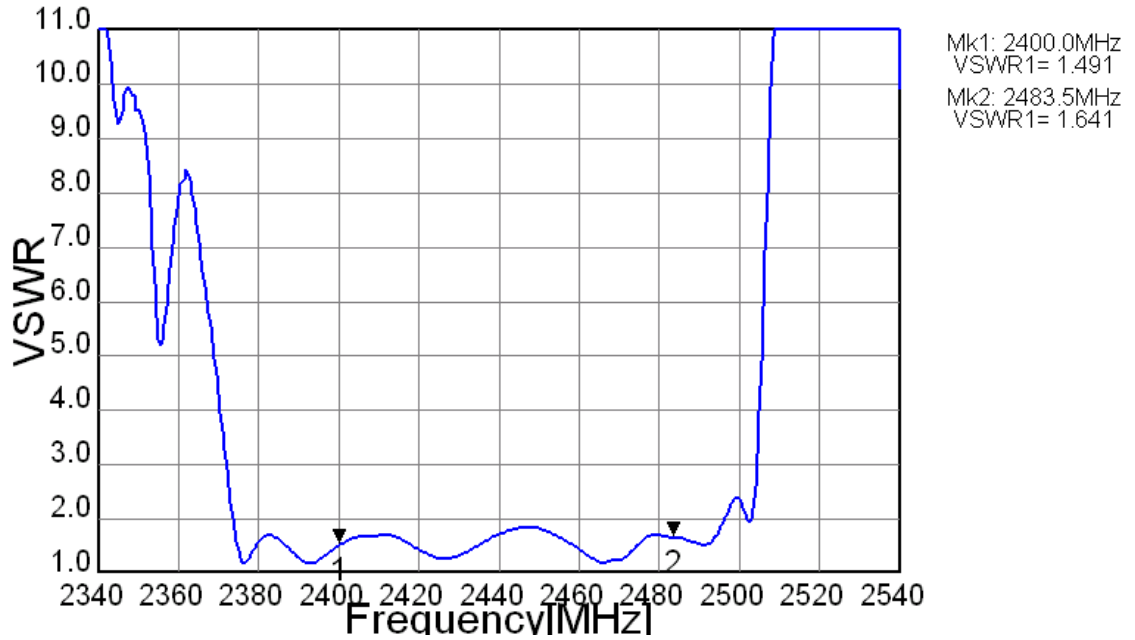


Figure 3. VSWR (Input)

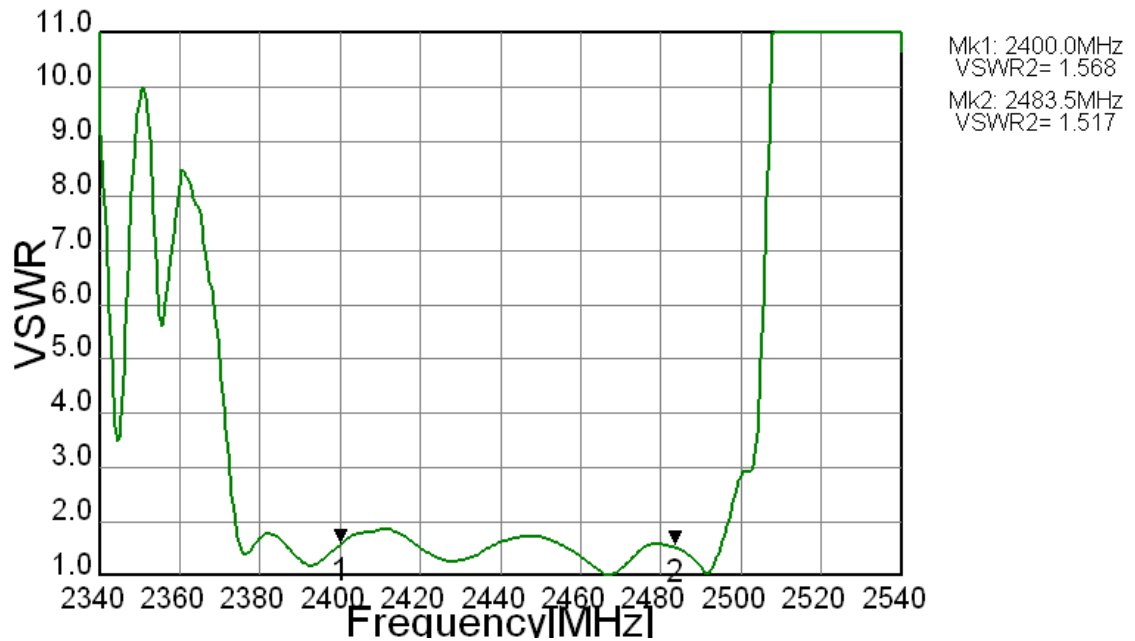


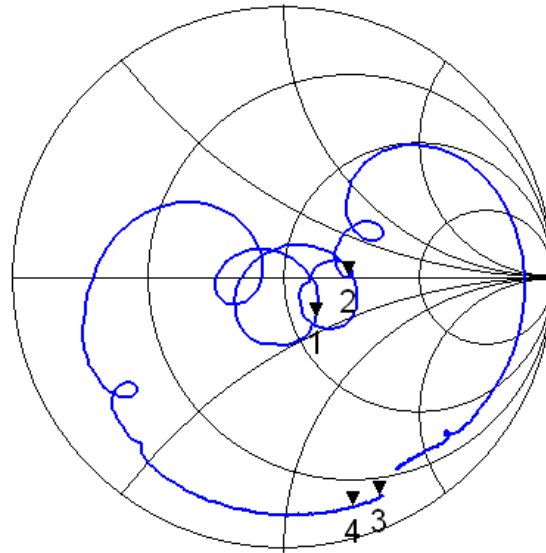
Figure 4. VSWR (Output)



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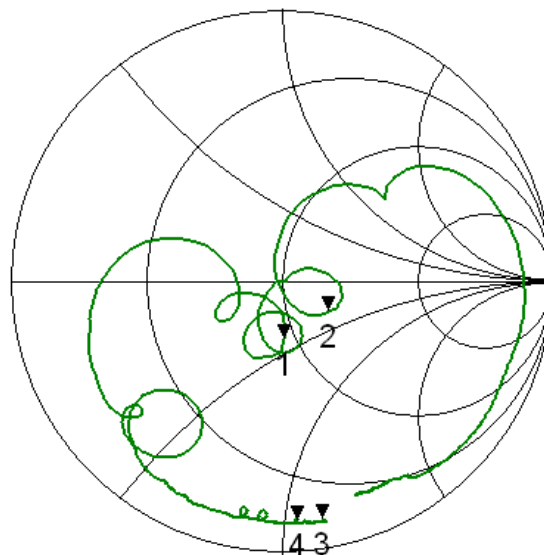
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Mk1: 2400.0
 $S_{11} = 1.202 - j 0.392$
Mk2: 2483.5
 $S_{11} = 1.641 - j 0.004$
Mk3: 2110.0
 $S_{11} = 0.195 - j 1.515$
Mk4: 2170.0
 $S_{11} = 0.168 - j 1.337$

Fig.5 Input Impedance



Mk1: 2400.0
 $S_{22} = 0.922 - j 0.428$
Mk2: 2483.5
 $S_{22} = 1.365 - j 0.328$
Mk3: 2110.0
 $S_{22} = 0.131 - j 1.177$
Mk4: 2170.0
 $S_{22} = 0.121 - j 1.059$

Fig.6 Output Impedance



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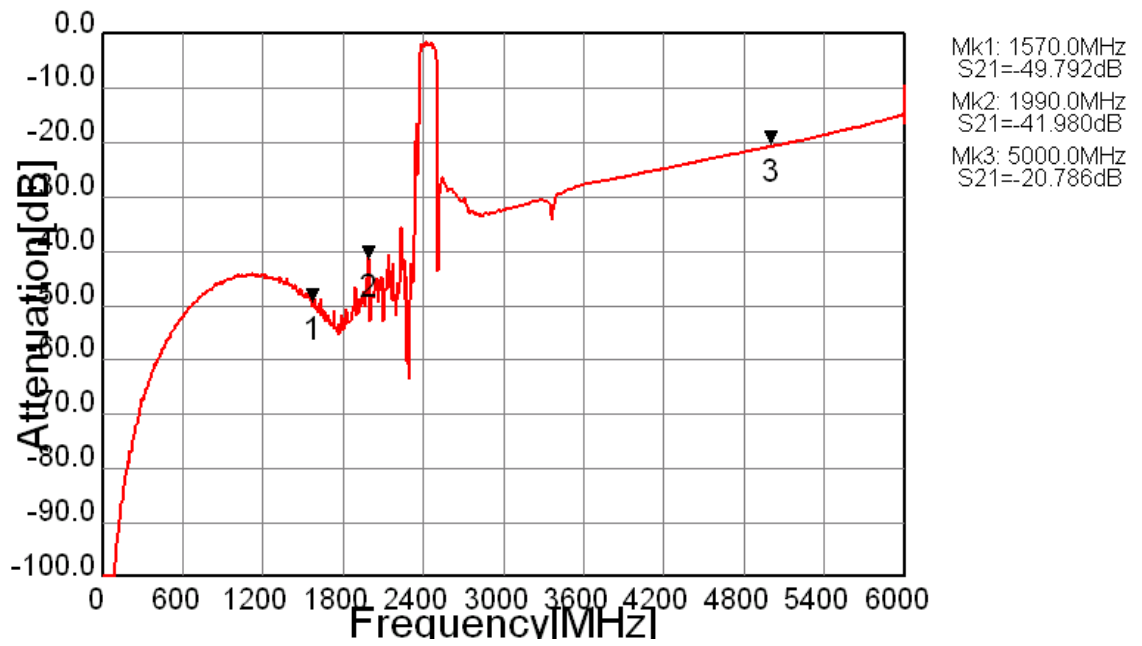


Figure 7. Wide-band Characteristics