



MSL1

\* Pb Free Part

Customer Name	<b>Standard</b>	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-LAN	Date	March 31, 2010
Part Number	FAR-F6KA-2G4418-A4VA	Version 3.0c	

Table 1.						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	2400 - 2483.5	-	3.0	3.5	dB	
Ripple	2400 - 2483.5	-	1.2	1.9	dB	
VSWR (Input)	2400 - 2483.5	-	2.1	2.5	dB	
VSWR (Output)	2400 - 2483.5	-	2.1	2.5	dB	
Absolute attenuation	DC - 1000	40	49	-	dB	
	1000 - 1570	37	47	-	dB	
	1570 - 1700	35	44	-	dB	
	1700 - 1880	34	40	-	dB	
	1880 - 1990	33	37	-	dB	
	1990 - 2170	31	33	-	dB	
	2700 - 4800	19	24	-	dB	
	4800 - 5000	18	24	-	dB	
Max. Input Power	2400 - 2483.5	+23dBm (200mW)>10000hour Spectrum spread signal (IEEE.802.11g) Ta=+55°C			dBm	
Input impedance	-	50//8.3nH			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	



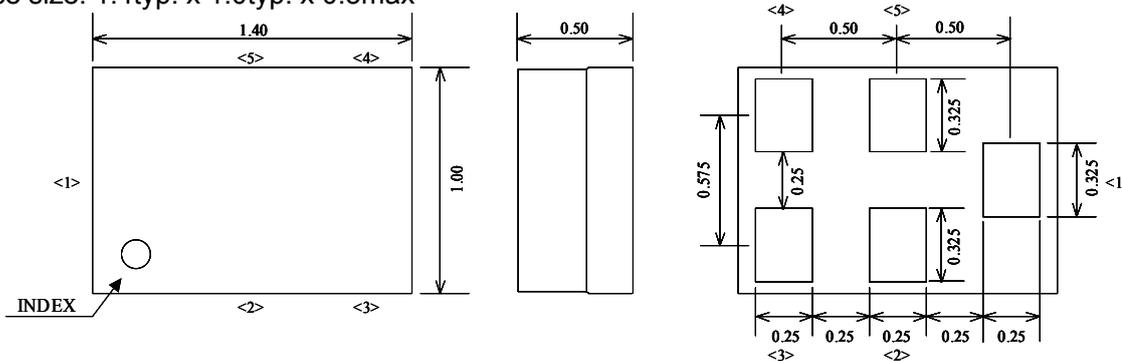
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### Dimensions

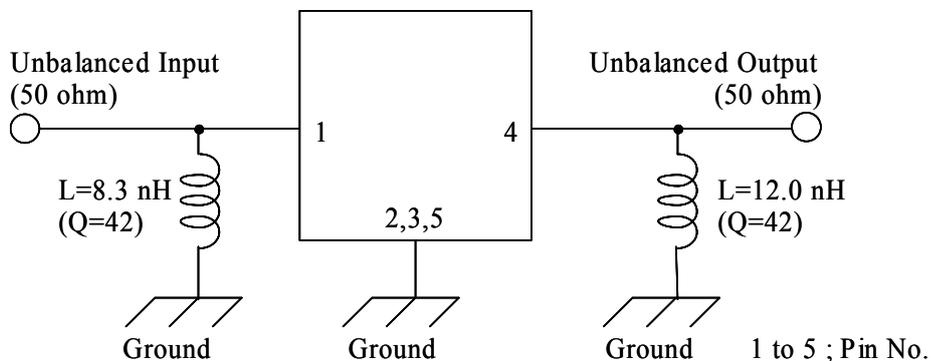
Device size: 1.4typ. x 1.0typ. x 0.5max



### Pin Configuration

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

### Evaluation Circuit





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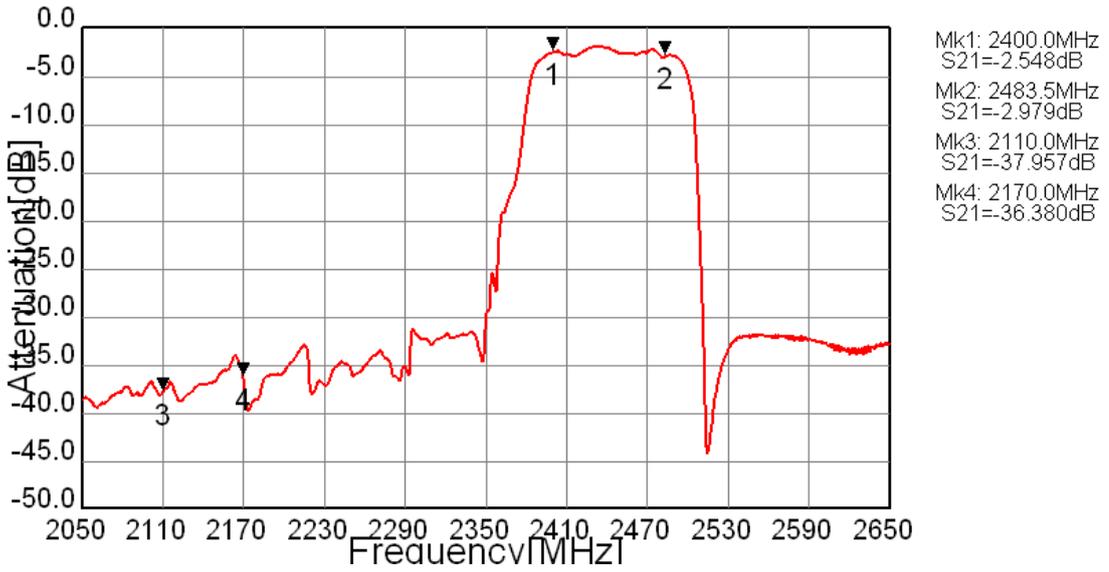


Figure 1. Pass-band Characteristics

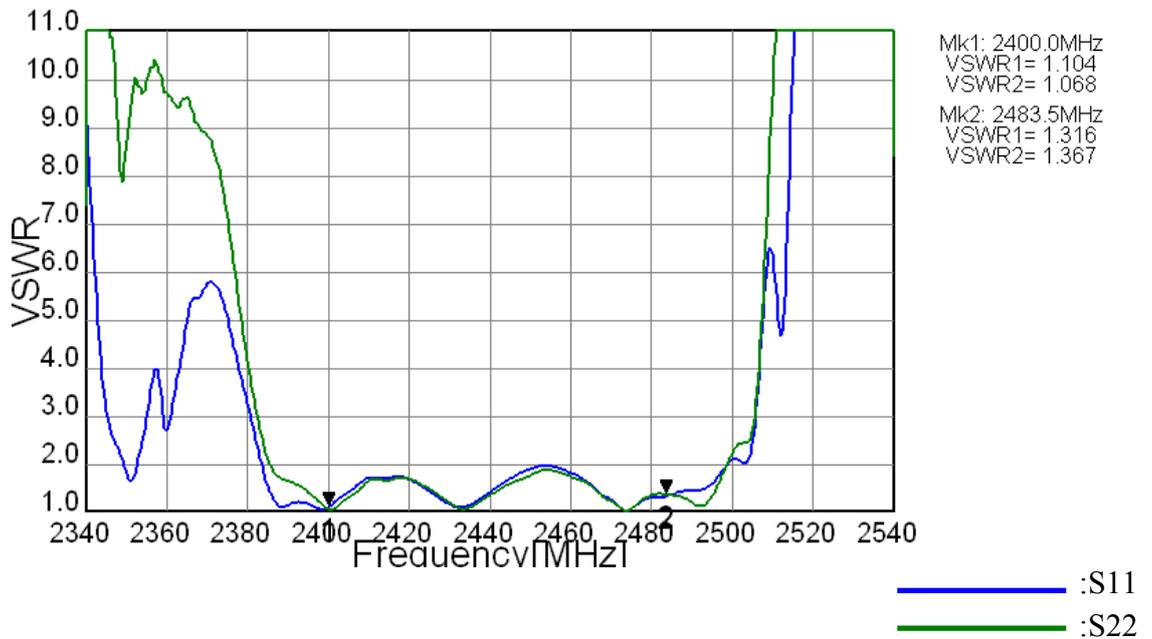


Figure 2. VSWR



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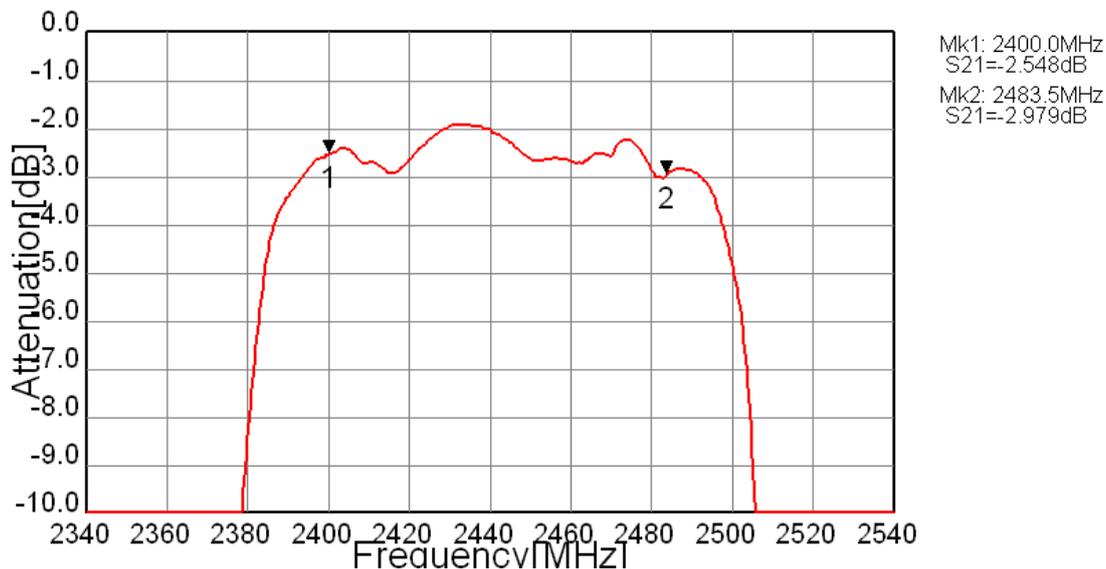


Figure 3. In-band Characteristics

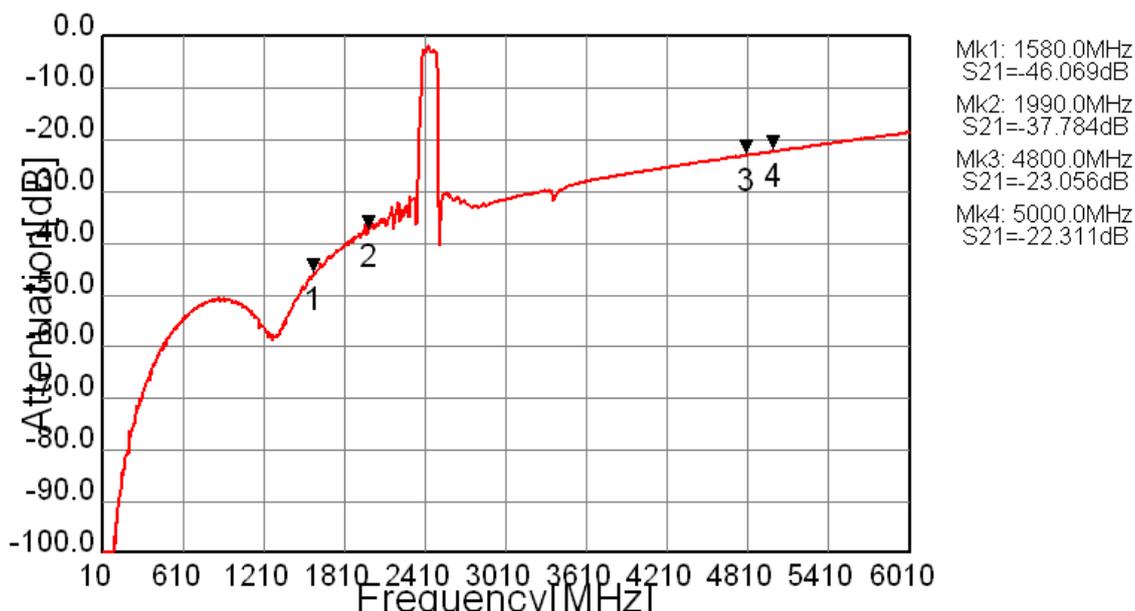


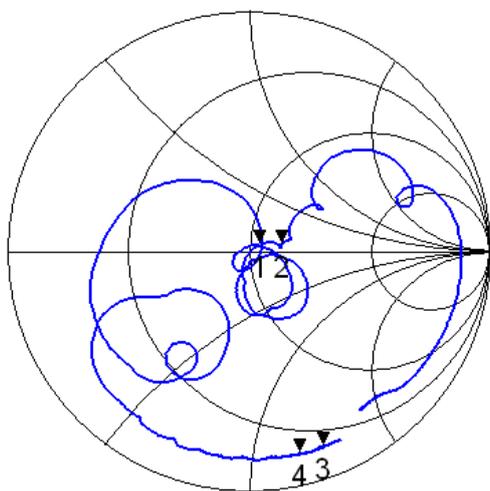
Figure 4. Wide-band Characteristics



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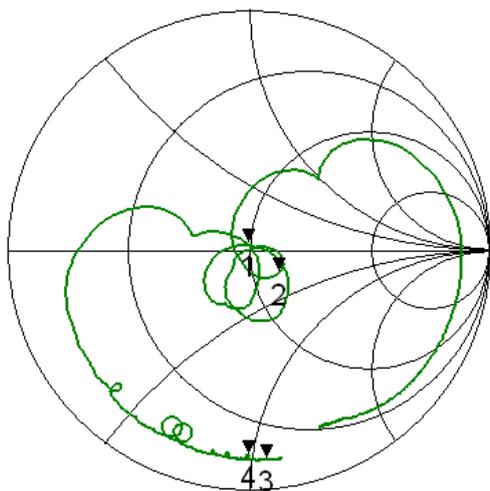
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Mk1: 2400.0  
 $S_{11} = 1.082 + j0.062$   
Mk2: 2483.5  
 $S_{11} = 1.303 + j0.086$   
Mk3: 2110.0  
 $S_{11} = 0.209 - j1.422$   
Mk4: 2170.0  
 $S_{11} = 0.185 - j1.265$

Fig.5 Input Impedance



Mk1: 2400.0  
 $S_{22} = 0.982 + j0.062$   
Mk2: 2483.5  
 $S_{22} = 1.248 - j0.248$   
Mk3: 2110.0  
 $S_{22} = 0.145 - j1.072$   
Mk4: 2170.0  
 $S_{22} = 0.157 - j0.978$

Fig.6 Output Impedance