



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I (2G) Rx	Date	March 31, 2010
Part Number	FAR-F6KA-2G1400-D4CG	Version 5.0e	

Table 1.Electrical specification

Pass Band (2110-2170MHz)						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	2110-2170 MHz	-	1.9	2.6	dB	
Ripple	2110-2170 MHz	-	0.6	1.4	dB	
Absolute attenuation	1920-1980 MHz	35	39	-	dB	
	4220-4340 MHz	20	26	-	dB	
VSWR(S11)	2110-2170 MHz	-	1.8	2.4	-	
VSWR(S22)	2110-2170 MHz	-	1.8	2.4	-	
Input Power	2110-2170 MHz	-	-	+15	dBm	In Band
	1920-1980 MHz					Tx Band
In/Output impedance	-	50/50			ohm	
Operating temperature		-30 to +85			°C	
Device size (L x W x H)		1.4typ.x1.0typ.x0.5max.			mm	SMD



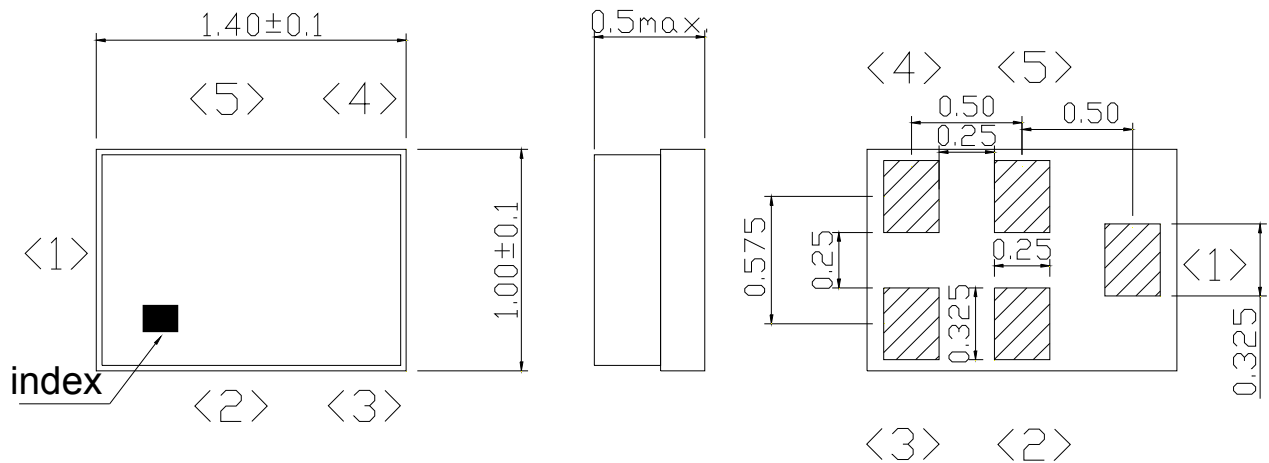
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Dimensions

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

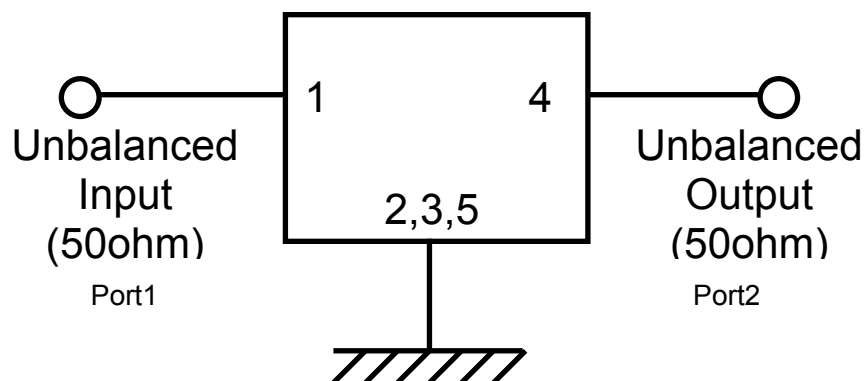


Unit : mm

Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

Evaluation Circuit



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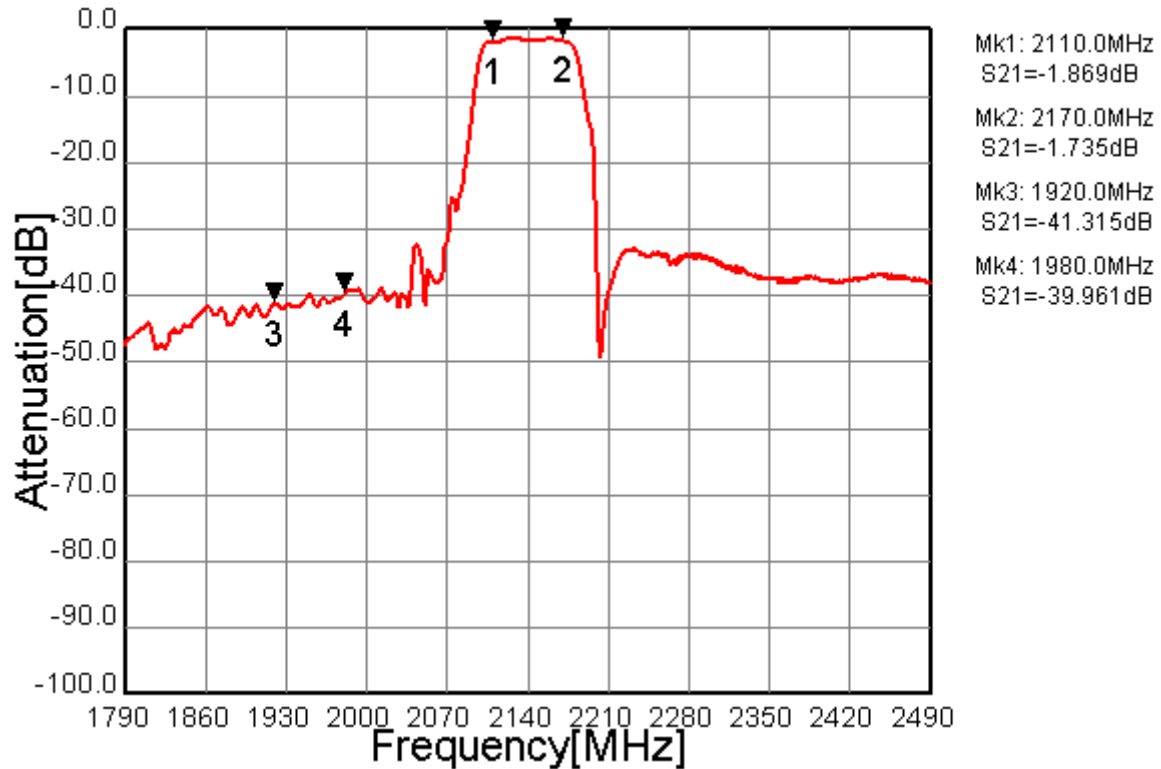


Fig.1 Pass-band Characteristic

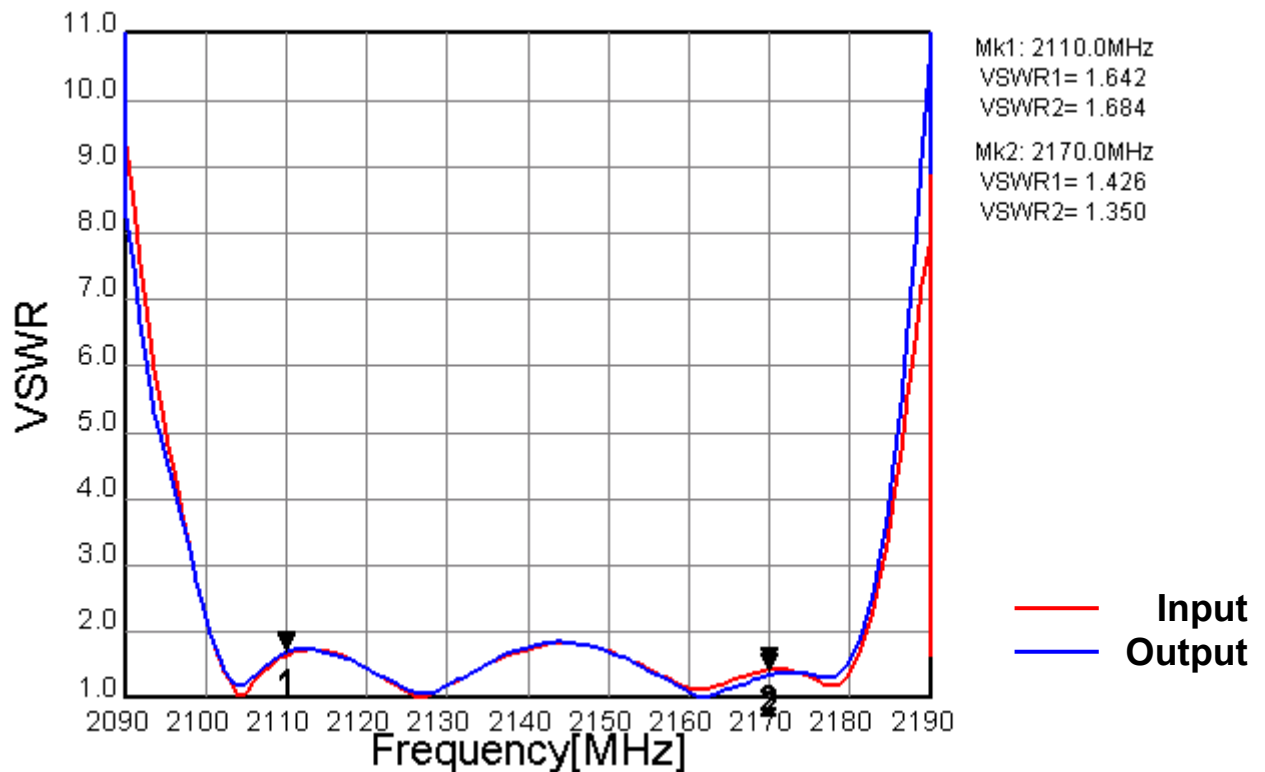


Fig.2 VSWR

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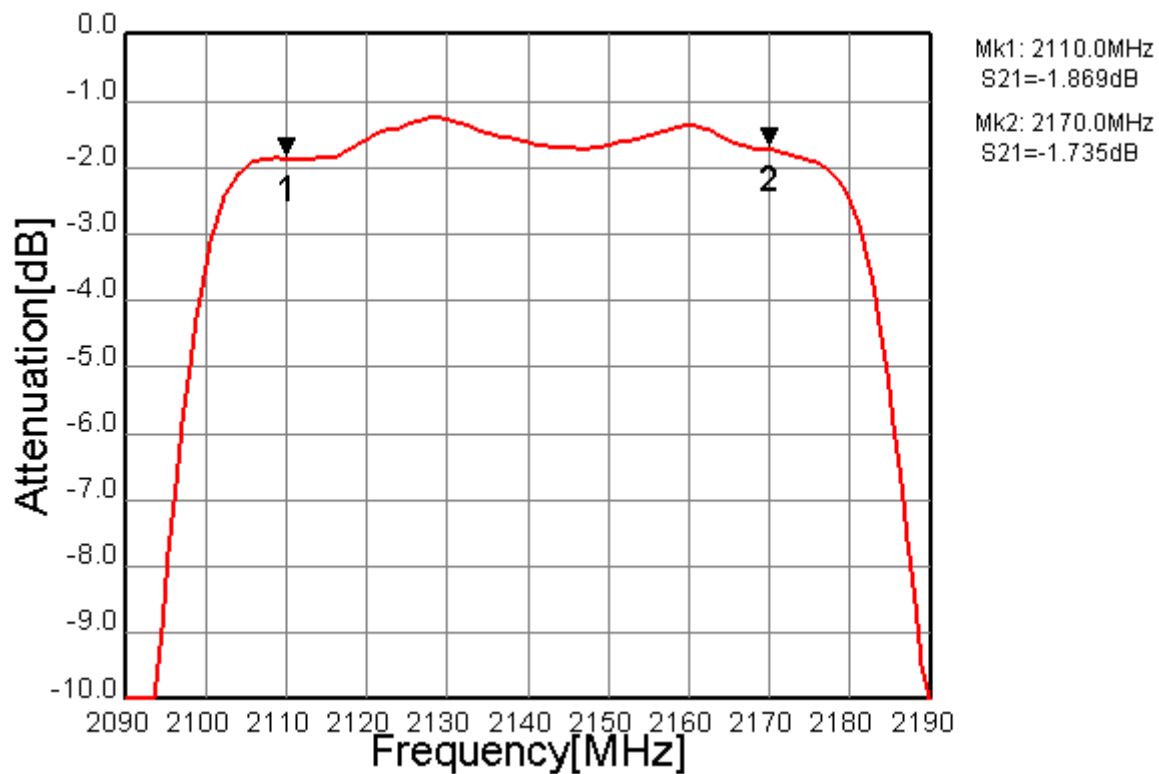


Fig.3 In-band Characteristic

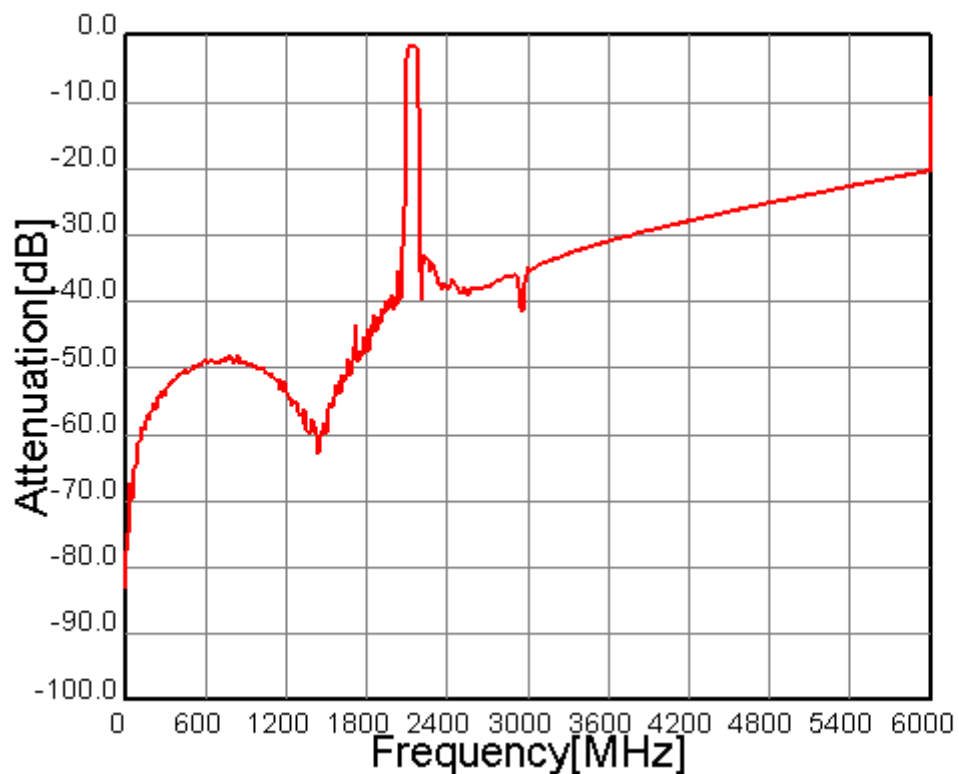


Fig.4 Wide-band Characteristic

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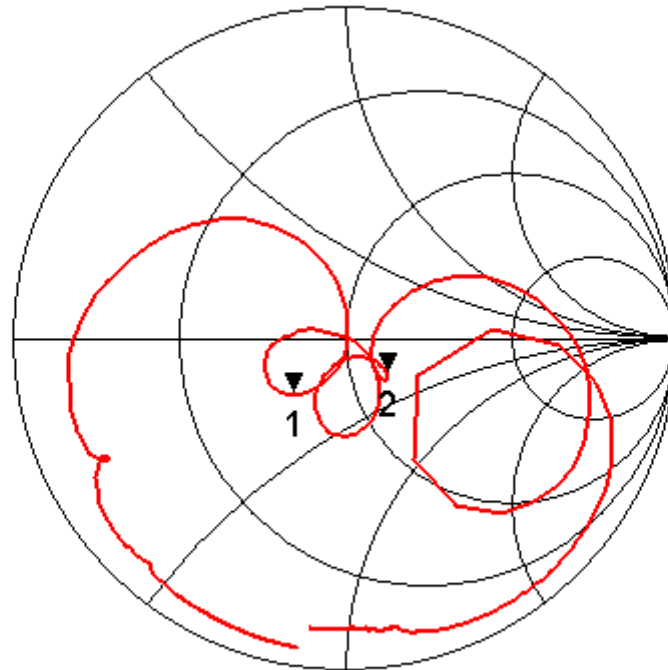


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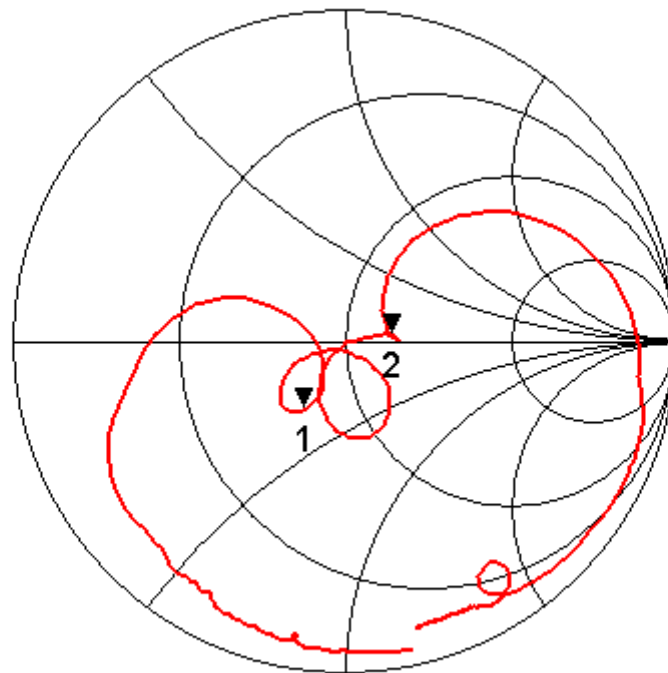
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Mk1: 2110.0
 $S_{11} = 0.690 - j 0.247$
Mk2: 2170.0
 $S_{11} = 1.265 - j 0.297$

1790 - 2490MHz

Fig.5 Impedance (S11)



Mk1: 2110.0
 $S_{22} = 0.716 - j 0.319$
Mk2: 2170.0
 $S_{22} = 1.336 + j 0.060$

1790 - 2490MHz

Fig.6 Impedance (S22)