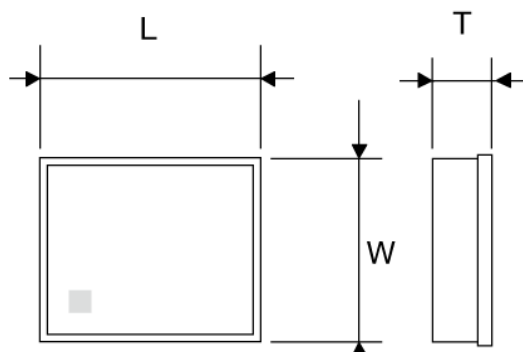


## SAW Filter

## FAR-F6KA-2G1400-D4CG



## ■ Features

- Item Summary  
W-CDMA / CDMA , Rx, 504
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 3000 , 15000pcs

## ■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B1
Band(3GPP2)	BC6
Use	WCDMA / CDMA
Transmitting / Receiving	Rx Filter
Insertion Loss	1.9dB
Attenuation	39dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

## ■ External Dimensions

L	1.4mm +0.1:-0.1
W	1.0mm +0.1:-0.1
T	0.5mm max

2015.02.05

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.  
 TAIYO YUDEN reserves the right to make change to the Date at any time without notice.  
 Before making final selection, please check product specification.



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



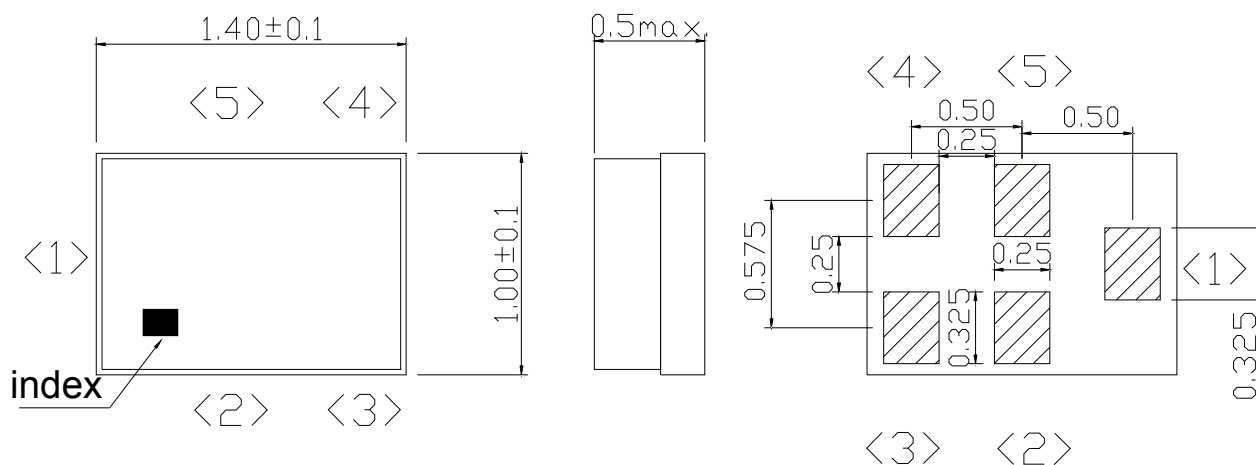
MSL1

\* 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	

### Dimensions

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

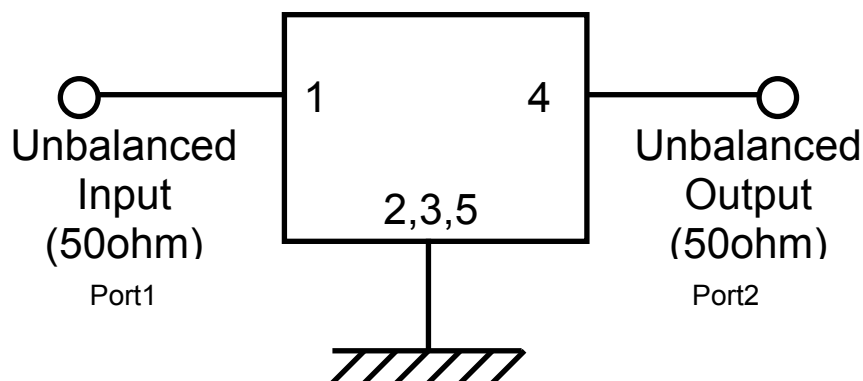


Unit : mm

### 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





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	

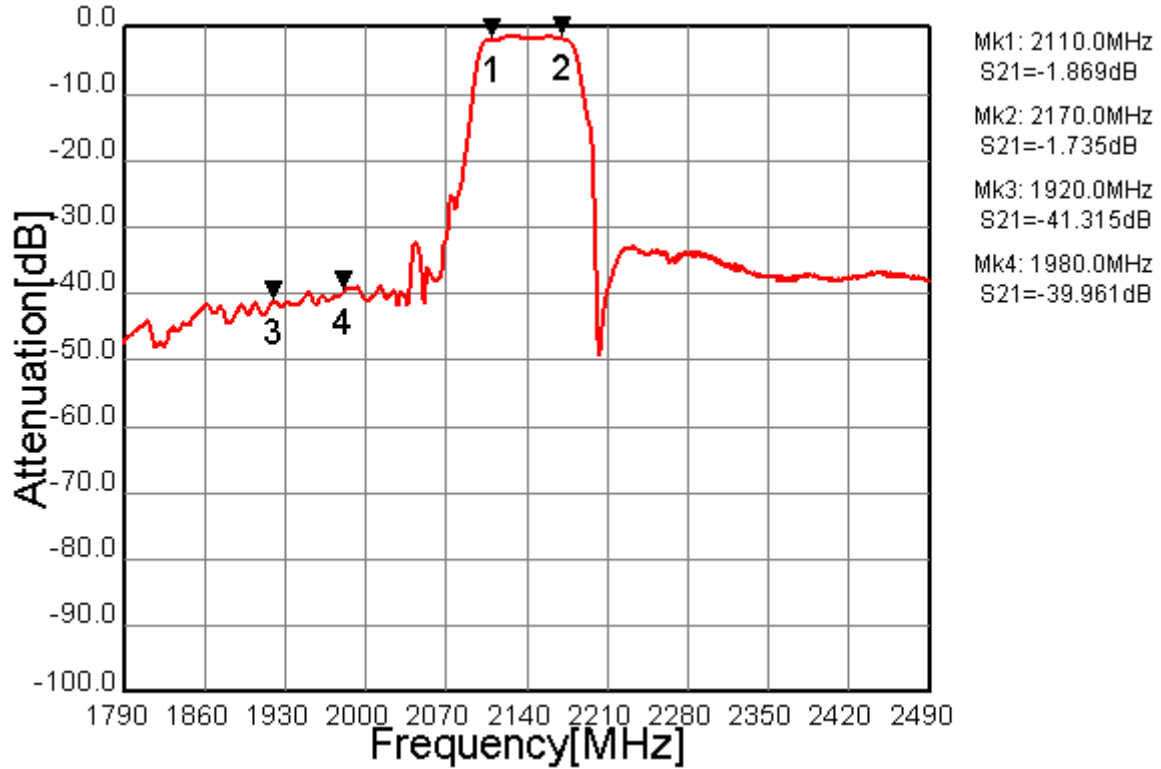


Fig.1 Pass-band Characteristic

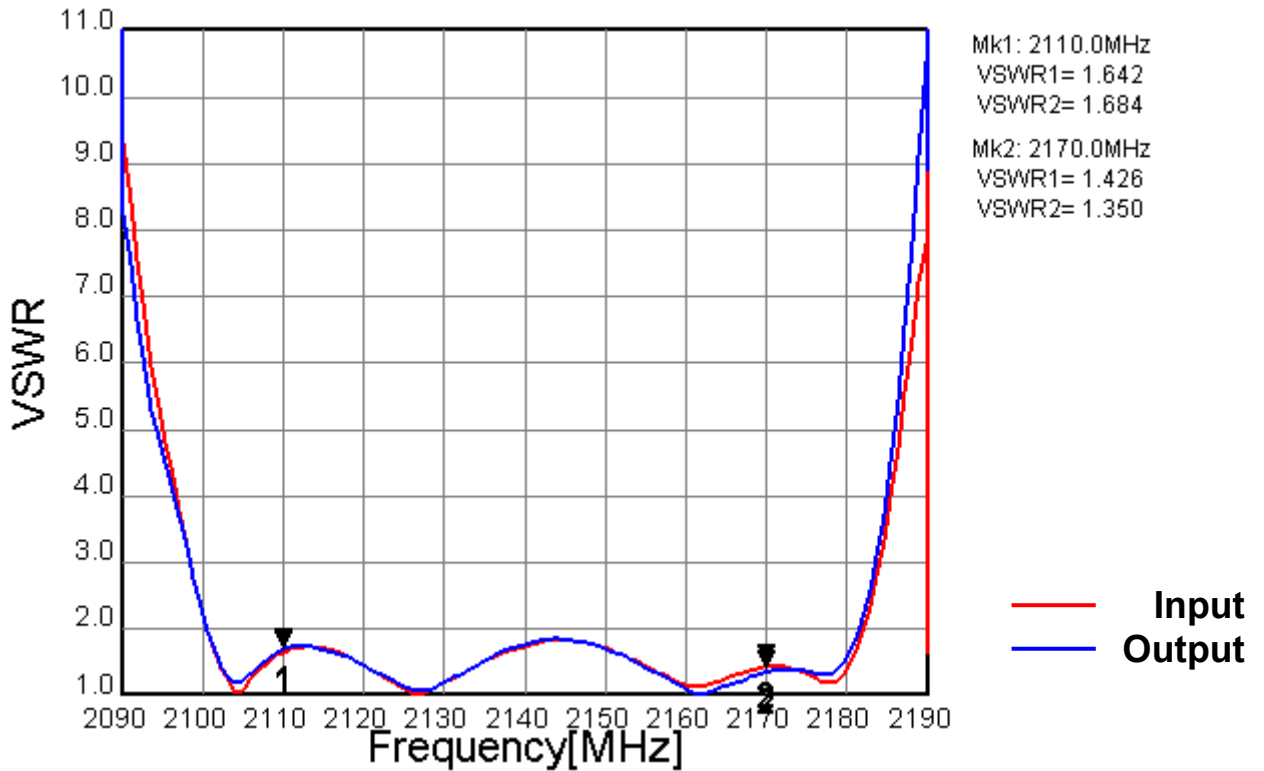


Fig.2 VSWR



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	

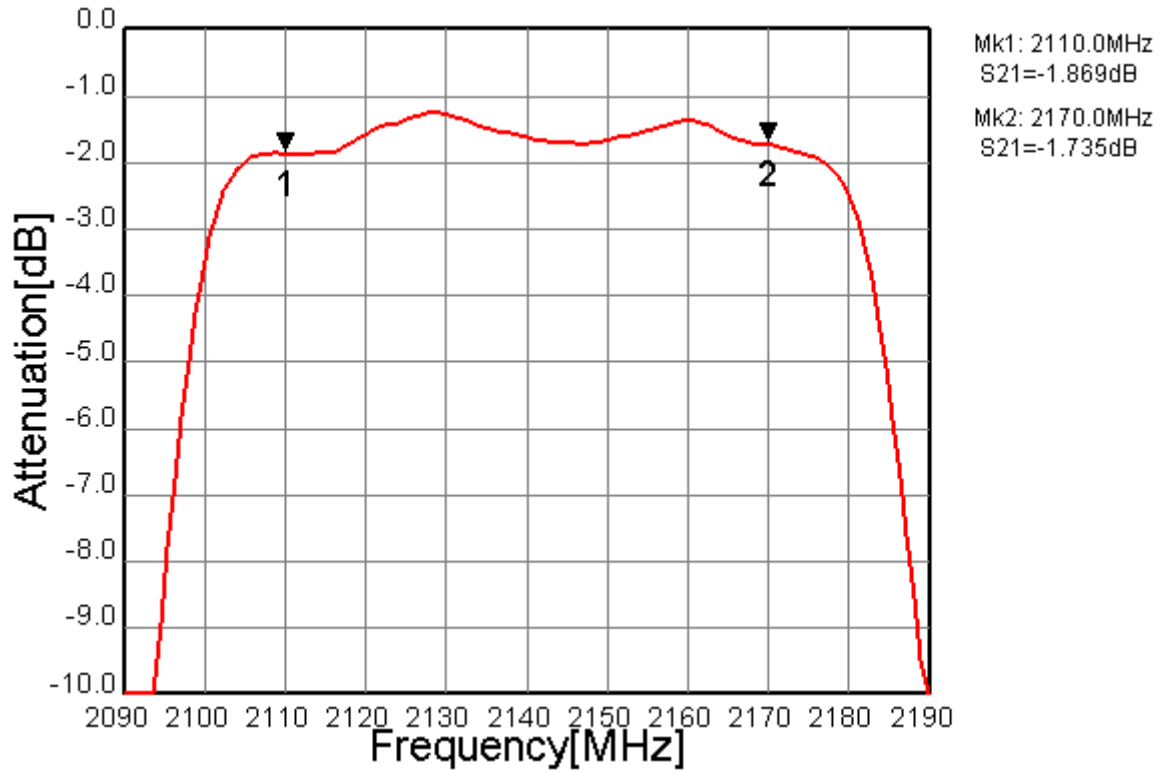


Fig.3 In-band Characteristic

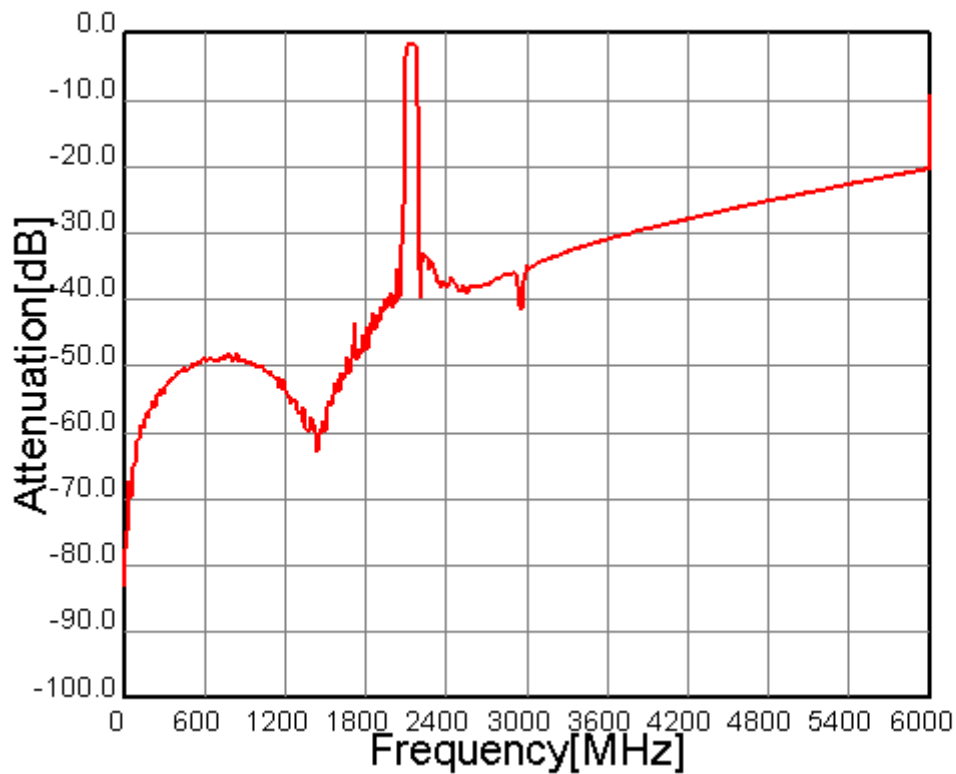


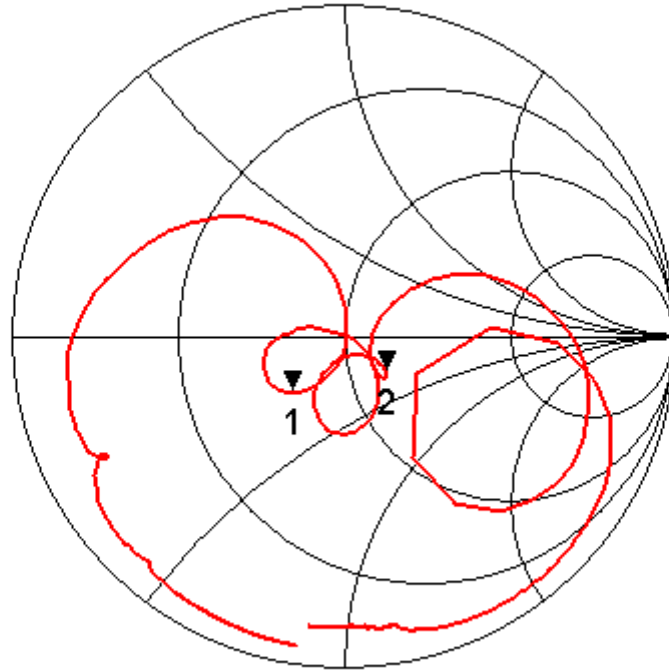
Fig.4 Wide-band Characteristic



MSL1

\* Pb Free Part

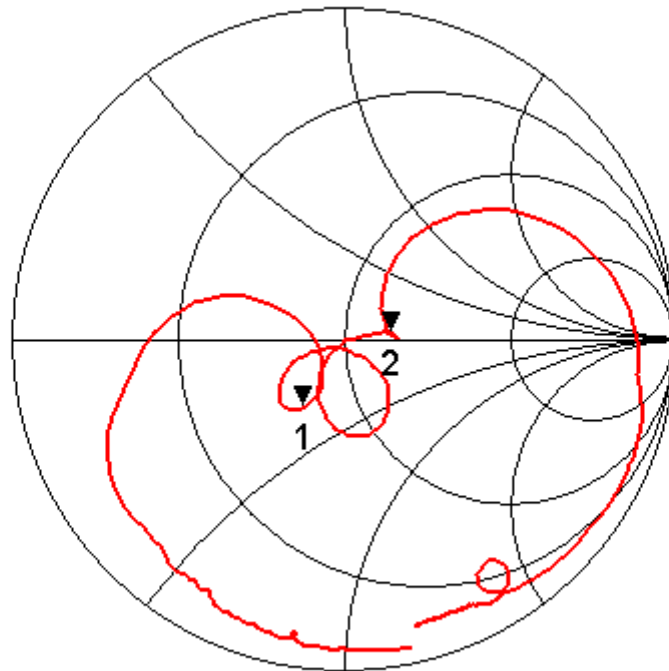
Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I (2G) Rx	Date	March 31, 2010
Part Number	FAR-F6KA-2G1400-D4CG	Version 5.0e	



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)

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