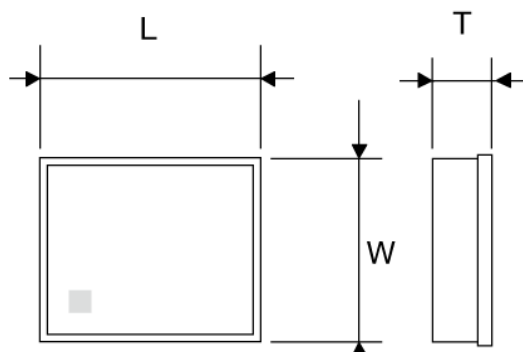


## SAW Filter

## FAR-F6KA-1G9500-D4CD



## ■ Features

- Item Summary  
W-CDMA / LTE / CDMA , Tx, 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 / B4
Band(3GPP2)	BC6
Use	WCDMA / CDMA / LTE
Transmitting / Receiving	Tx Filter
Insertion Loss	2.2dB
Attenuation	36dB
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

2015.06.03

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) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G9500-D4CD	Version 3.0c	

Table 1. Electrical specifications

Pass Band (1920 ~1980 MHz)						
Item	Condition	Value			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1920-1980 MHz	-	2.2	2.9	dB	
Ripple	1920-1980 MHz	-	0.9	1.7	dB	
Absolute attenuation	DC-1577MHz	32	40		dB	
	1805-1880MHz	22	29	-	dB	
	2110-2170 MHz	33	36	-	dB	
	3840-3960 MHz	20	29	-	dB	
	5760-5940 MHz	15	21	-	dB	
VSWR(S11)	1920-1980 MHz	-	2.0	2.4	-	
VSWR(S22)	1920-1980 MHz	-	2.1	2.5	-	
Input Power	-	TBD			dBm	Pass 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



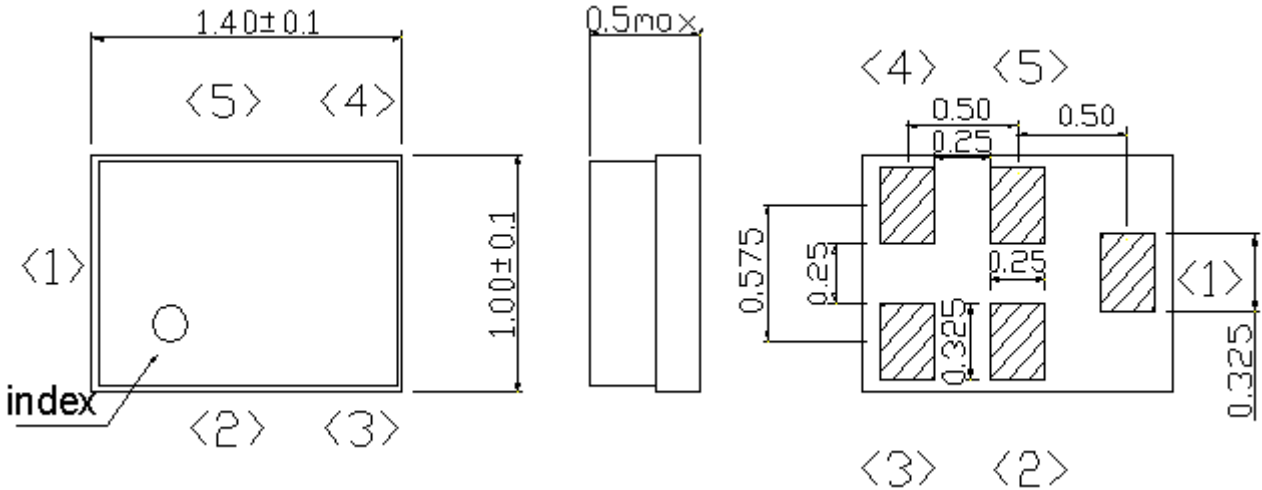
MSL1

\* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I (2G) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G9500-D4CD	Version 3.0c	

### Dimensions

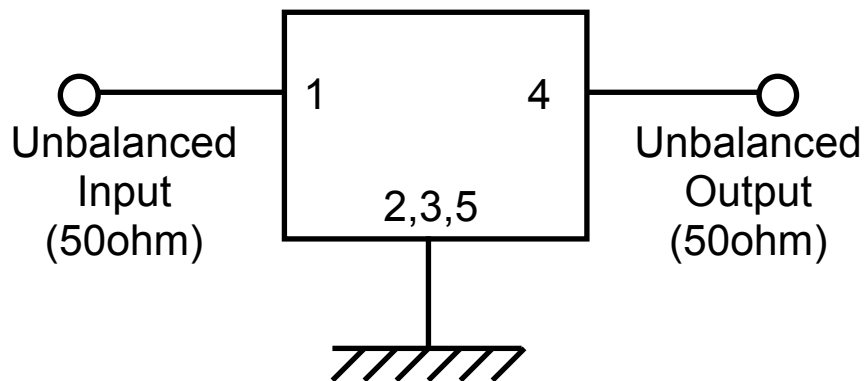
Device size: 1.4typ. x 1.0typ. x 0.5max.



### 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) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G9500-D4CD	Version 3.0c	

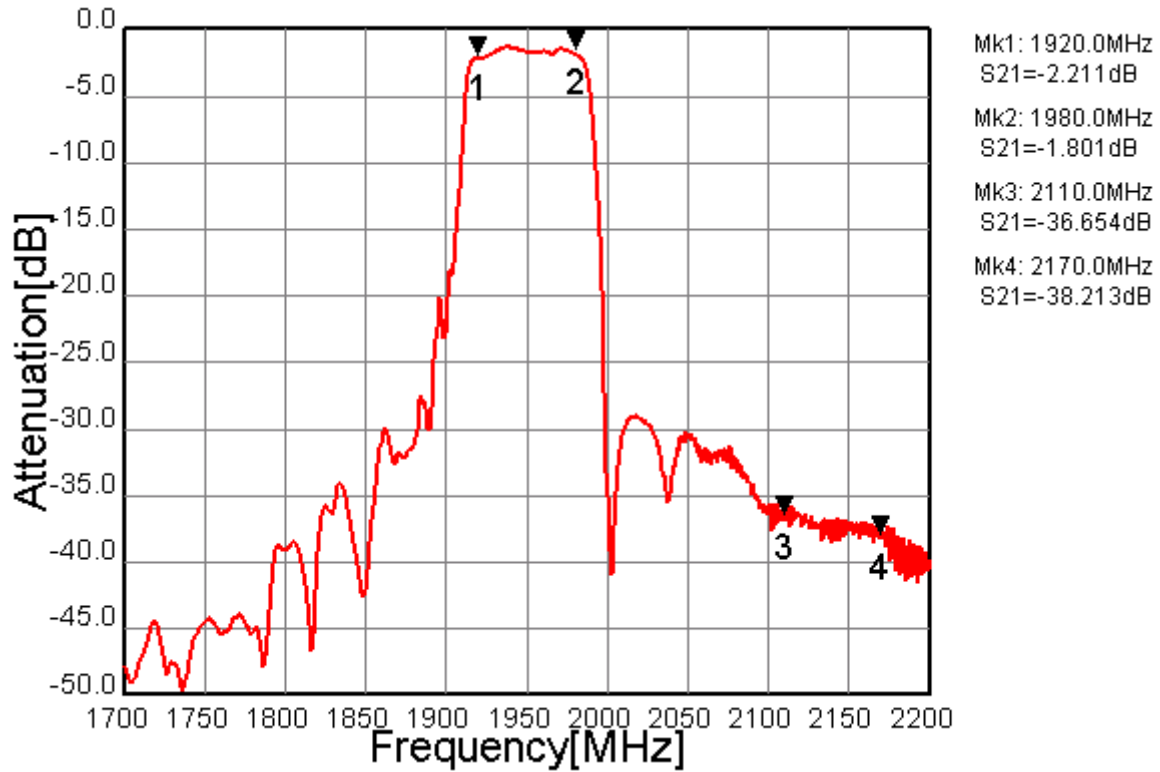


Fig.1 Pass-band Characteristic

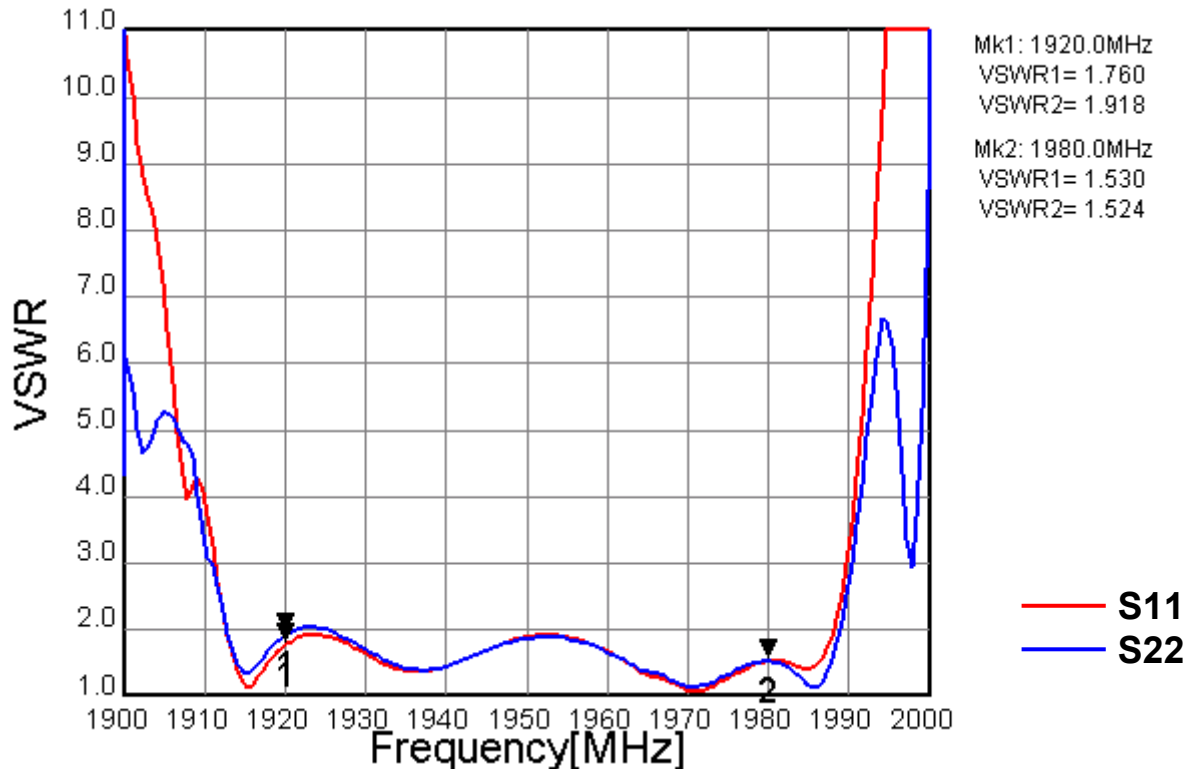


Fig.2 VSWR



MSL1

\* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I (2G) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G9500-D4CD	Version 3.0c	

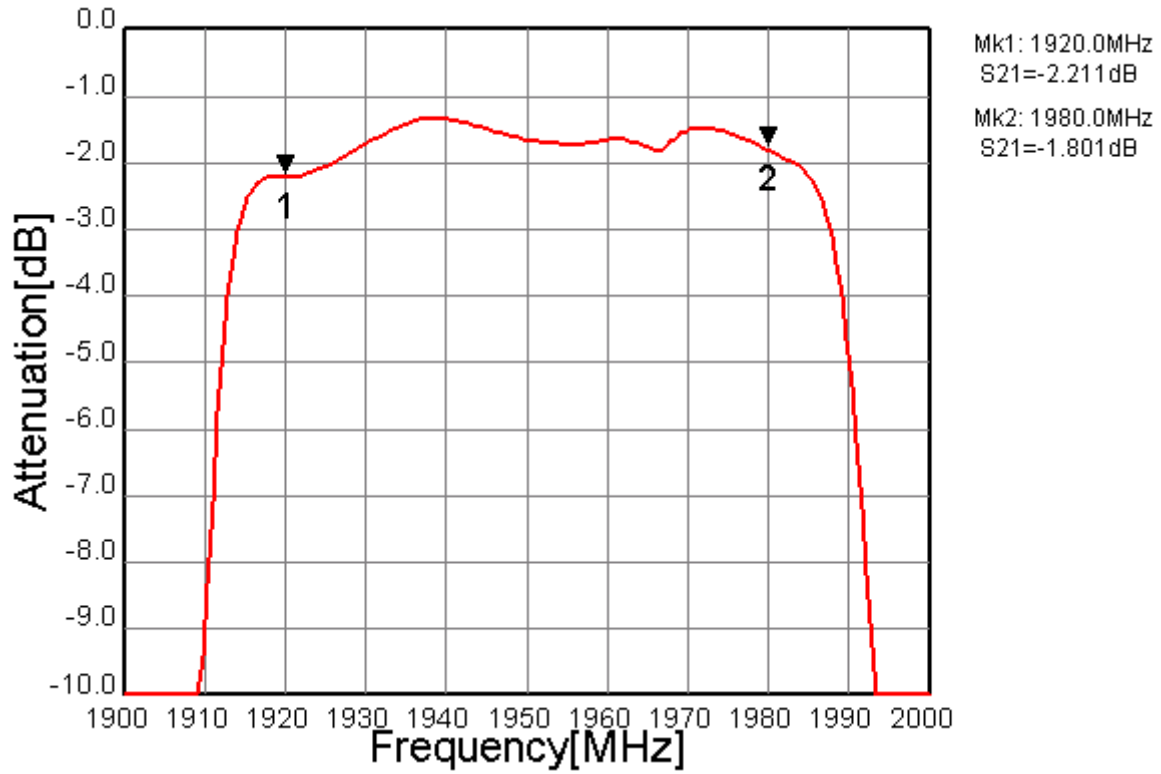


Fig.3 In-band Characteristic

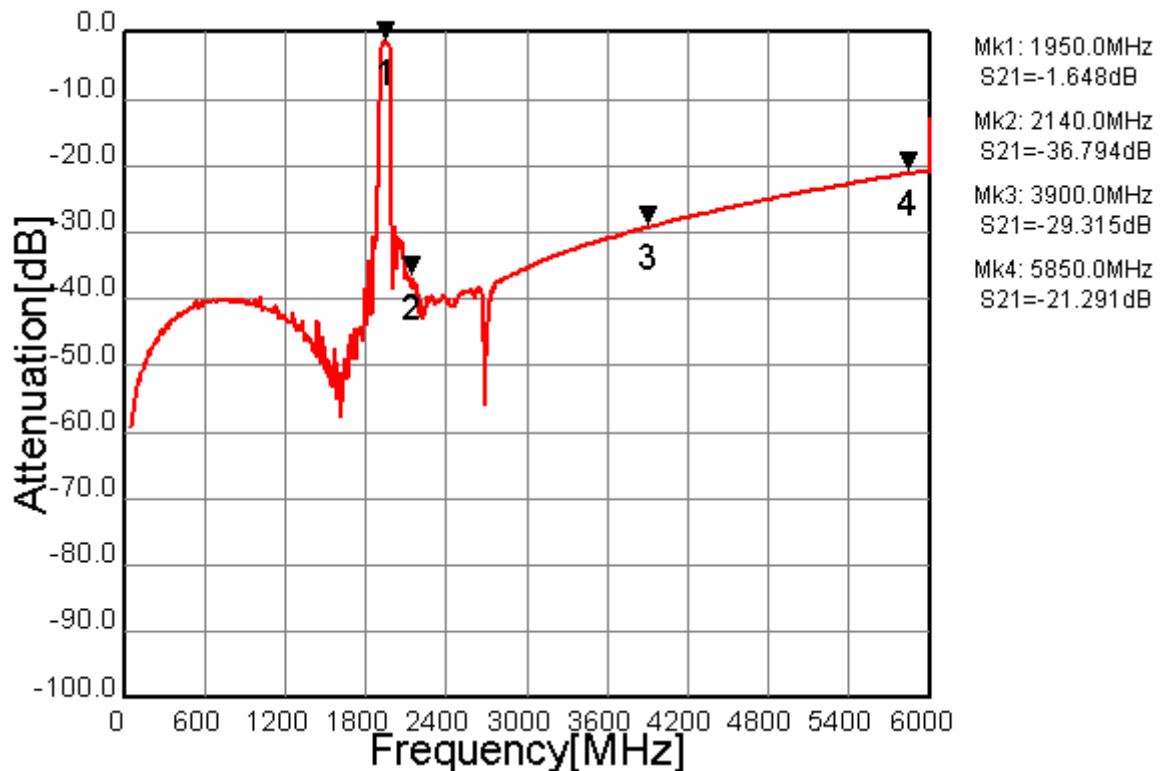


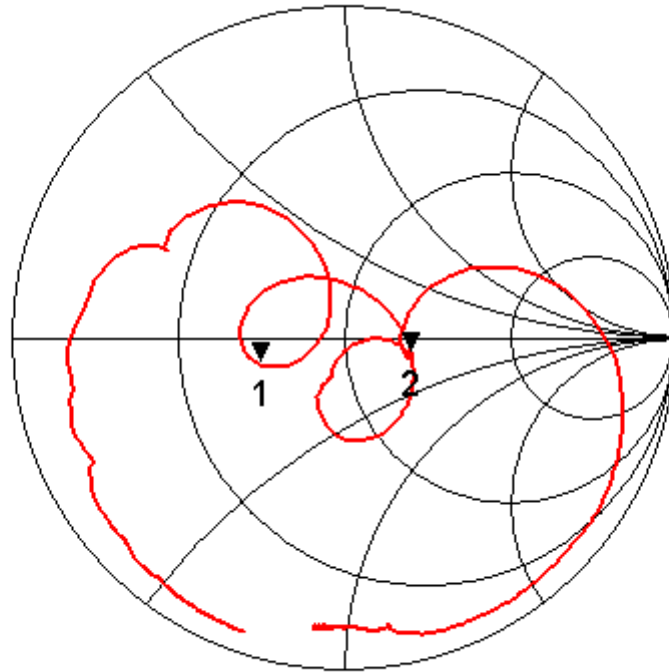
Fig.4 Wide-band Characteristic



MSL1

\* Pb Free Part

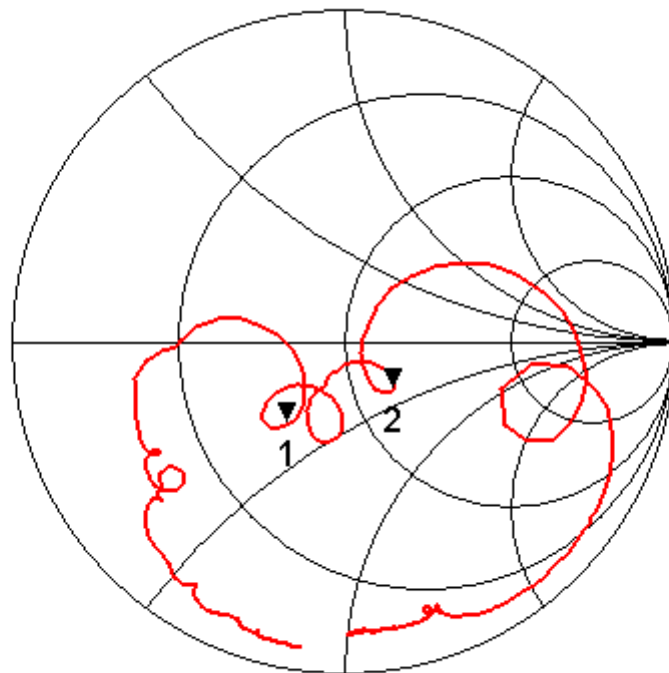
Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I (2G) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G9500-D4CD	Version 3.0c	



Mk1: 1920.0  
 $S_{11} = 0.584 - j 0.100$

Mk2: 1980.0  
 $S_{11} = 1.497 - j 0.166$

Fig.5 Impedance (S11)



Mk1: 1920.0  
 $S_{22} = 0.621 - j 0.347$

Mk2: 1980.0  
 $S_{22} = 1.283 - j 0.389$

Fig.6 Impedance (S22)