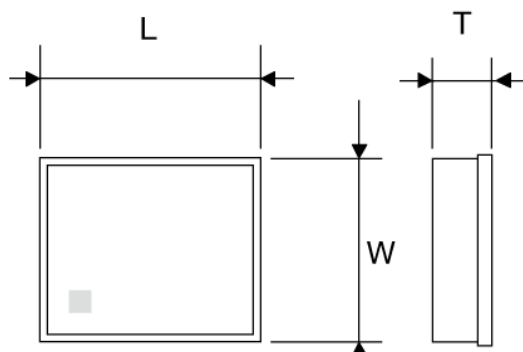


## SAW Filter

## FAR-F6KA-1G7675-D4CT



## ■ Features

- Item Summary  
W-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)	B9
Use	WCDMA
Transmitting / Receiving	Tx Filter
Insertion Loss	1.8dB
Attenuation	31dB
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 IX (1.7G) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G7675-D4CT	Version 1.0a	

**Table 1 Electrical Specification****Pass Band (1749.9 ~1785 MHz)**

Item	Condition	Value			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1749.9-1785 MHz	-	1.8	2.4	dB	
Ripple	1749.9-1785 MHz	-	0.5	1.0	dB	
Absolute attenuation	DC-1577MHz	32	40	-	dB	
	1844.9-1880MHz	27	31	-	dB	
	1920-1980MHz	32	40	-	dB	
	2110-2170 MHz	27	40	-	dB	
	3499-3570 MHz	20	30	-	dB	
	5249-5355 MHz	15	22	-	dB	
VSWR(S11)	1749.9-1785 MHz	-	1.9	2.4	-	
VSWR(S22)	1749.9-1785 MHz	-	1.8	2.4	-	
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



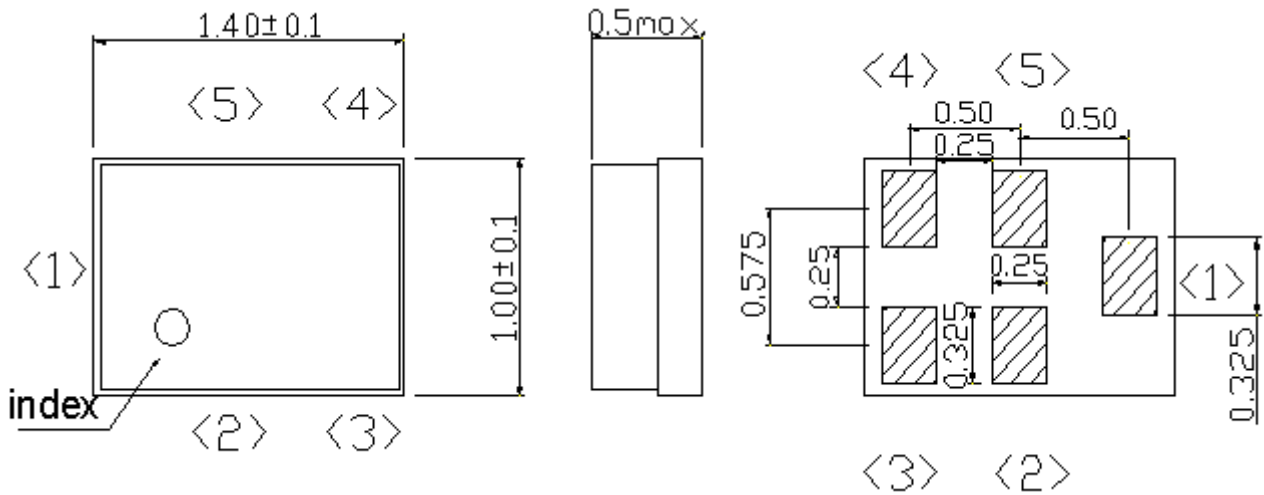
MSL1

\* Pb Free Part

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System	W-CDMA IX (1.7G) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G7675-D4CT	Version 1.0a	

### Dimensions

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

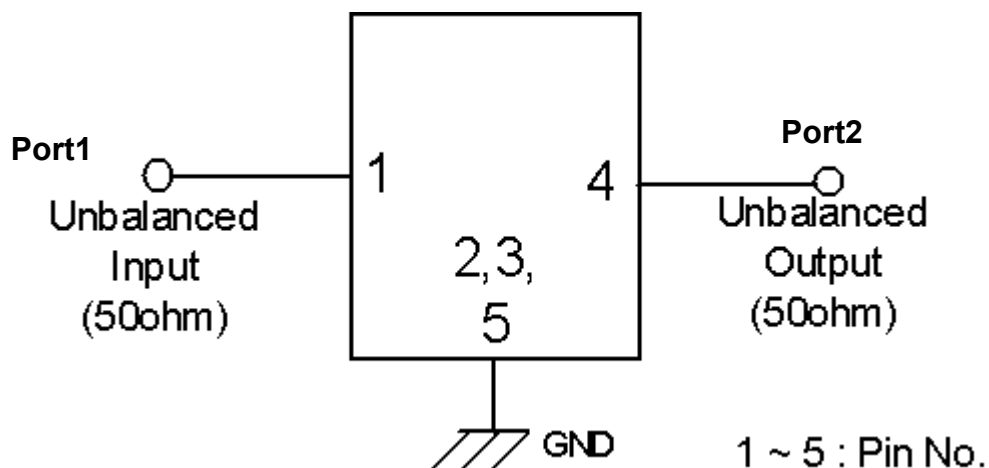


Unit: mm

### Pin Configuration

Pin No.	Pin name	Description
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

### Evaluation Circuit

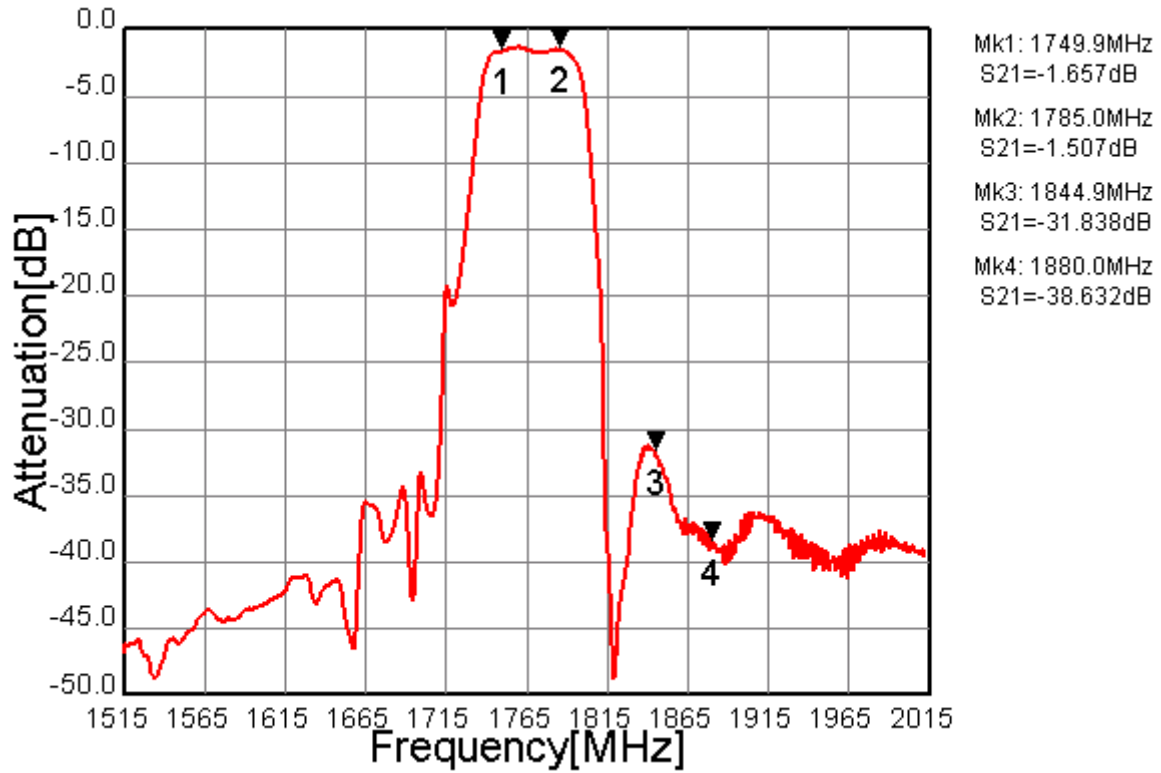




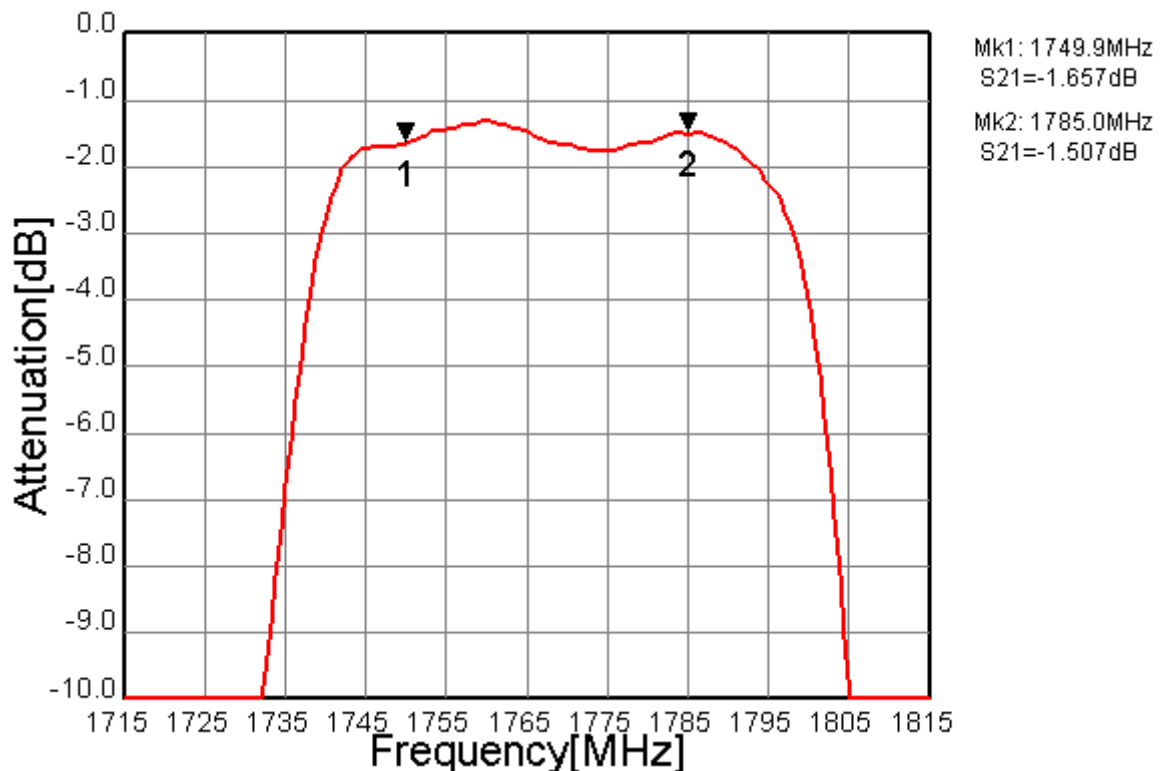
MSL1

\* Pb Free Part

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**Fig.1 Pass-band Characteristics**



**Fig.2 In-band Characteristics**



MSL1

\* Pb Free Part

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Part Number	FAR-F6KA-1G7675-D4CT	Version 1.0a	

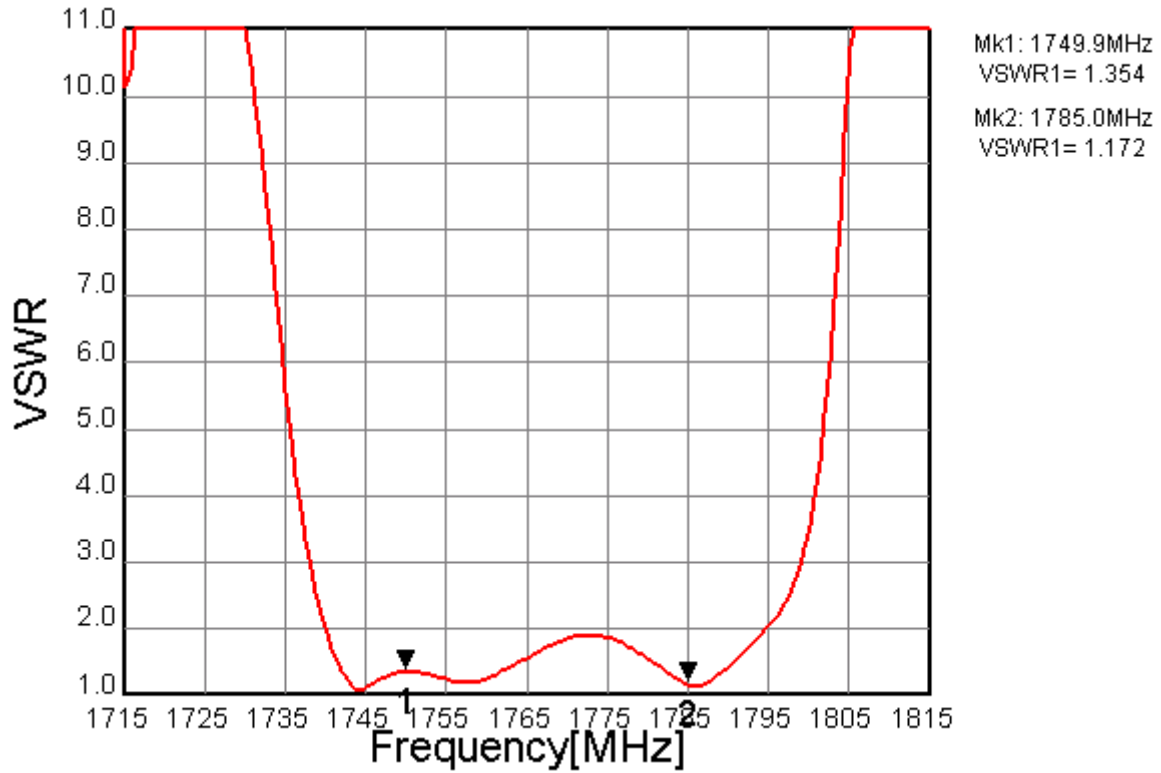


Fig.3 VSWR (S11)

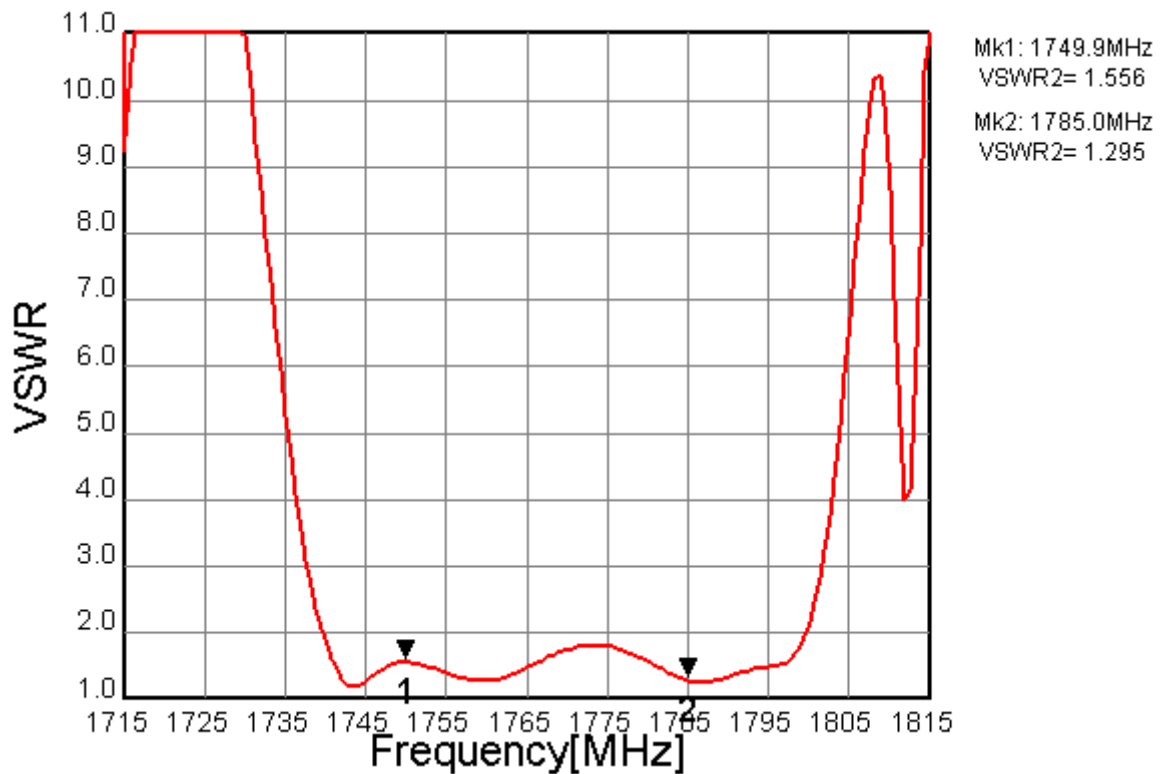


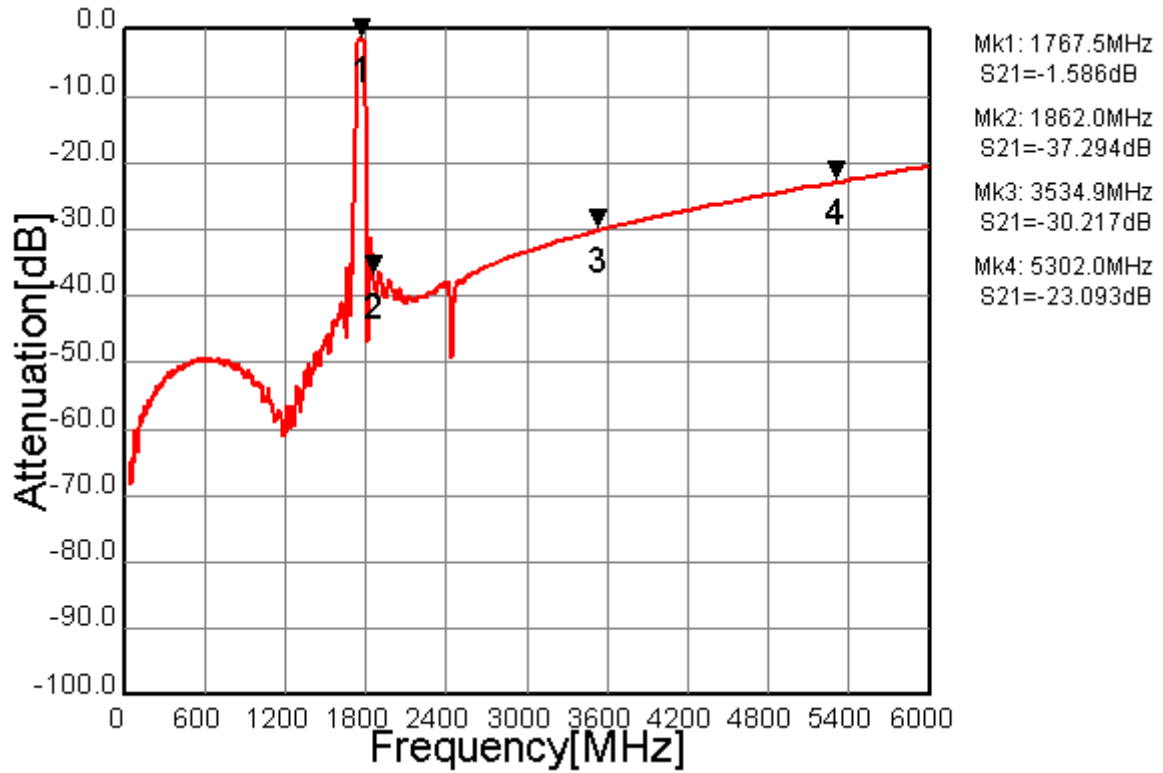
Fig.4 VSWR(S22)



MSL1

\* Pb Free Part

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Part Number	FAR-F6KA-1G7675-D4CT	Version 1.0a	



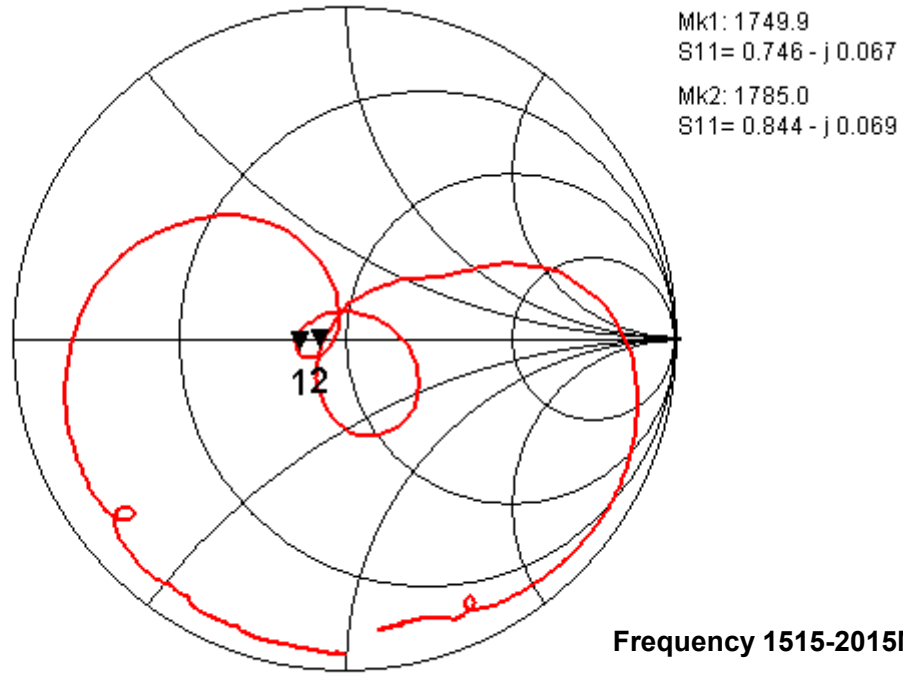
**Fig.5 Wide-band Characteristics**



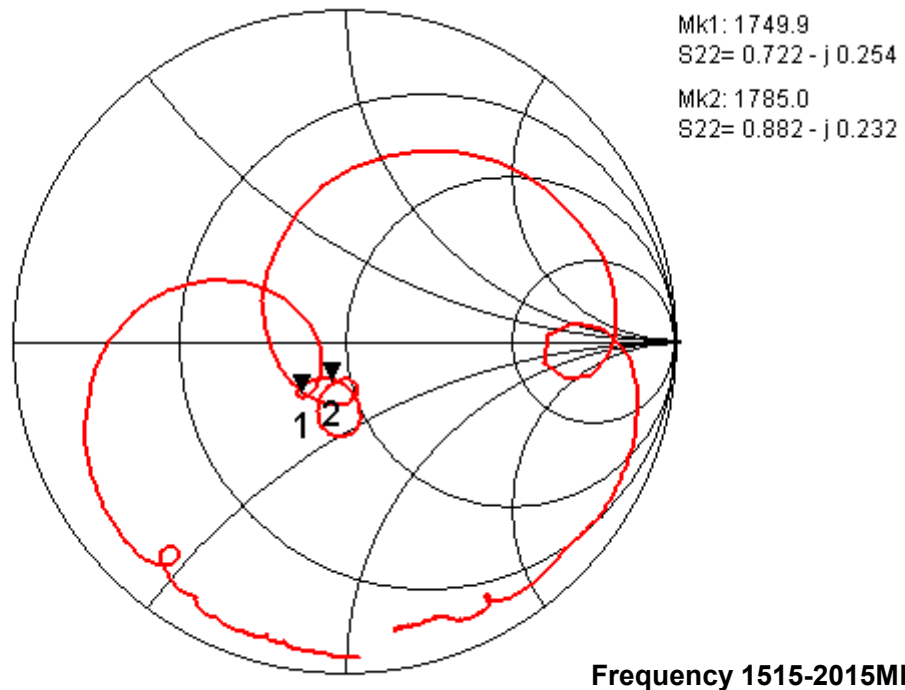
MSL1

\* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA IX (1.7G) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G7675-D4CT	Version 1.0a	



**Fig.6 Impedance (Input)**



**Fig.7 Impedance (Output)**