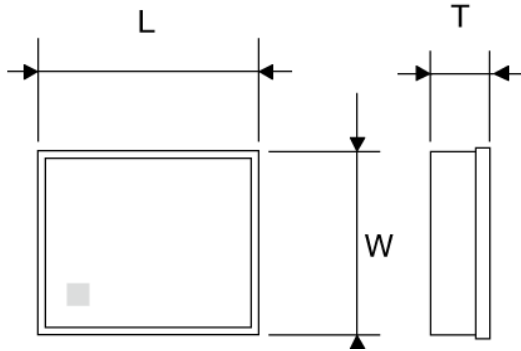


# SAW Filter

## F6QA1G950M2AA



### ■ Features

- Item Summary  
W-CDMA / LTE / CDMA , Tx, 403
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 5000 , 15000pcs

### ■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B1
Band(3GPP2)	BC6
Use	WCDMA / CDMA / LTE
Transmitting / Receiving	Tx Filter
Insertion Loss	1.8dB
Attenuation	38dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

### ■ External Dimensions

L	1.1mm +0.1:-0.1
W	0.9mm +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	Band1 Tx (50/50ohm)	DATE	March 21, 2012
Part Number	F6QA1G950M2AA	Version 1.0a	Final

**Table 1 Electrical specifications**

Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1920-1980 MHz	-	1.8	2.3	dB <sup>(*1)</sup>	
Ripple	1920-1980 MHz	-	0.8	1.8	dB	
Absolute Attenuation	DC-1577MHz	30	34	-	dB	
	1577-1880MHz	22	29	-	dB	
	2110-2170 MHz	35	38	-	dB	
	2500-3120 MHz	28	33	-	dB	
	3840-3960 MHz	25	29	-	dB	
	5760-5940 MHz	15	22	-	dB	
VSWR(Input)	1920-1980 MHz	-	1.8	2.2	-	
VSWR(Output)	1920-1980 MHz	-	1.8	2.2	-	
Input Impedance	Unbalance	50			ohm	
Output Impedance	Unbalance	50			ohm	
Device Size		1.1typ. x 0.9typ. x 0.5max			mm	
Operating temp.		-30 ~ +85			°C	

(\*1) These data include loss that comes from the test board. (0.15dB)



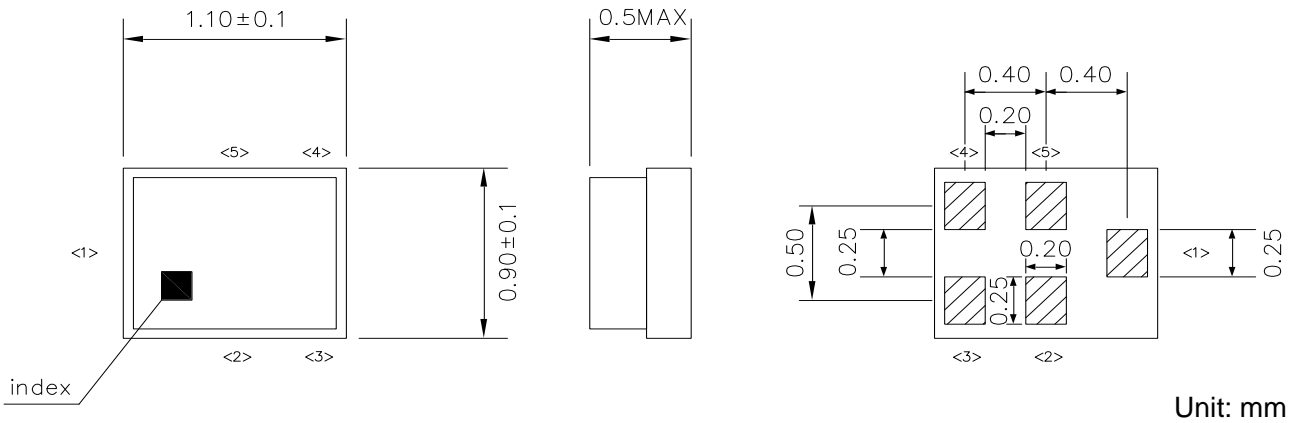
MSL1

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System	Band1 Tx (50/50ohm)	DATE	March 21, 2012
Part Number	F6QA1G950M2AA	Version 1.0a	Final

### Dimensions

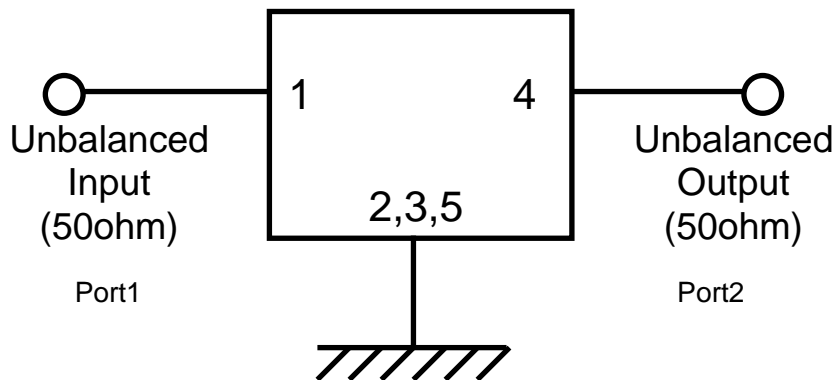
Device size: 1.1typ. x 0.9typ. x 0.5max



### Pin Configuration

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

### Test Condition





MSL1

\*Pb Free part

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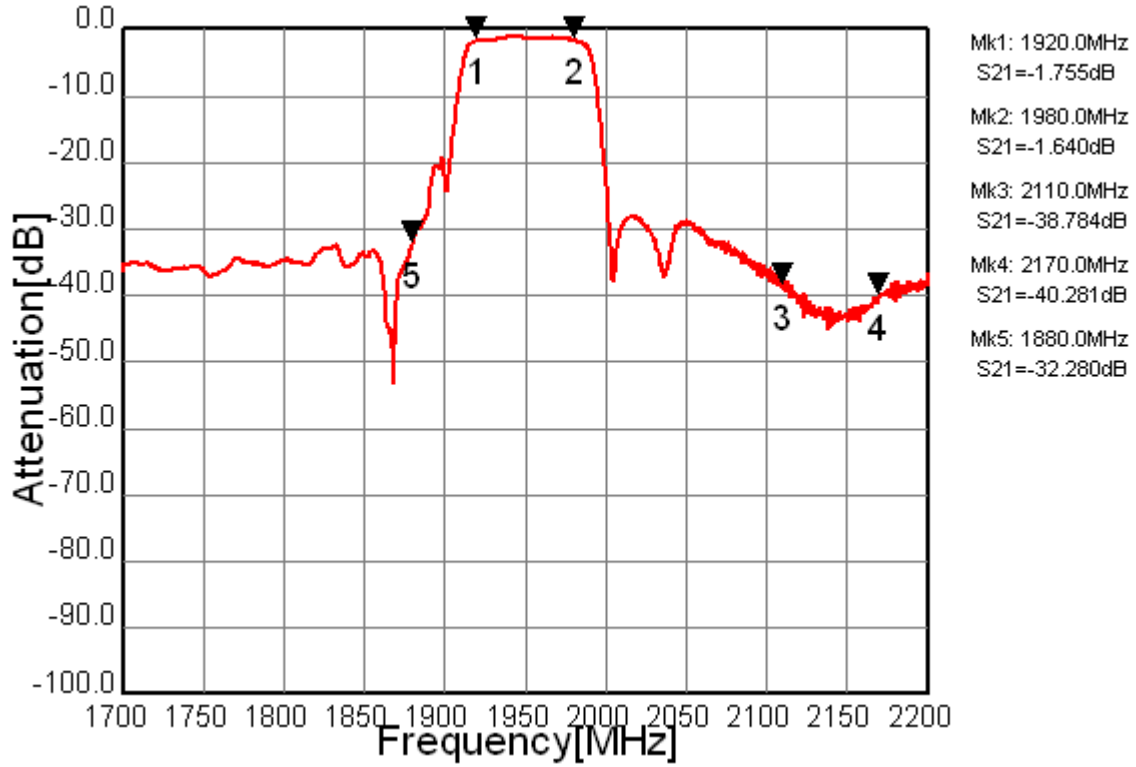


Fig.1 Pass-band Characteristics

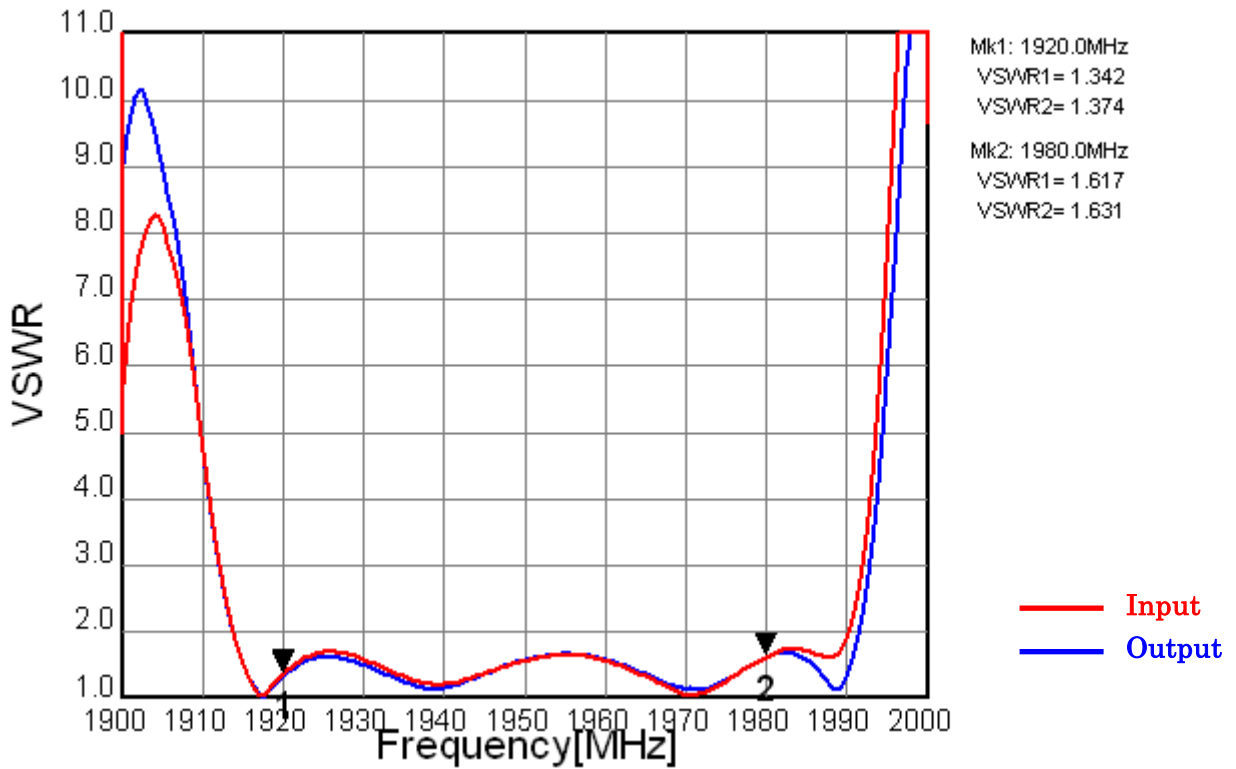


Fig.2 VSWR



MSL1

\*Pb Free part

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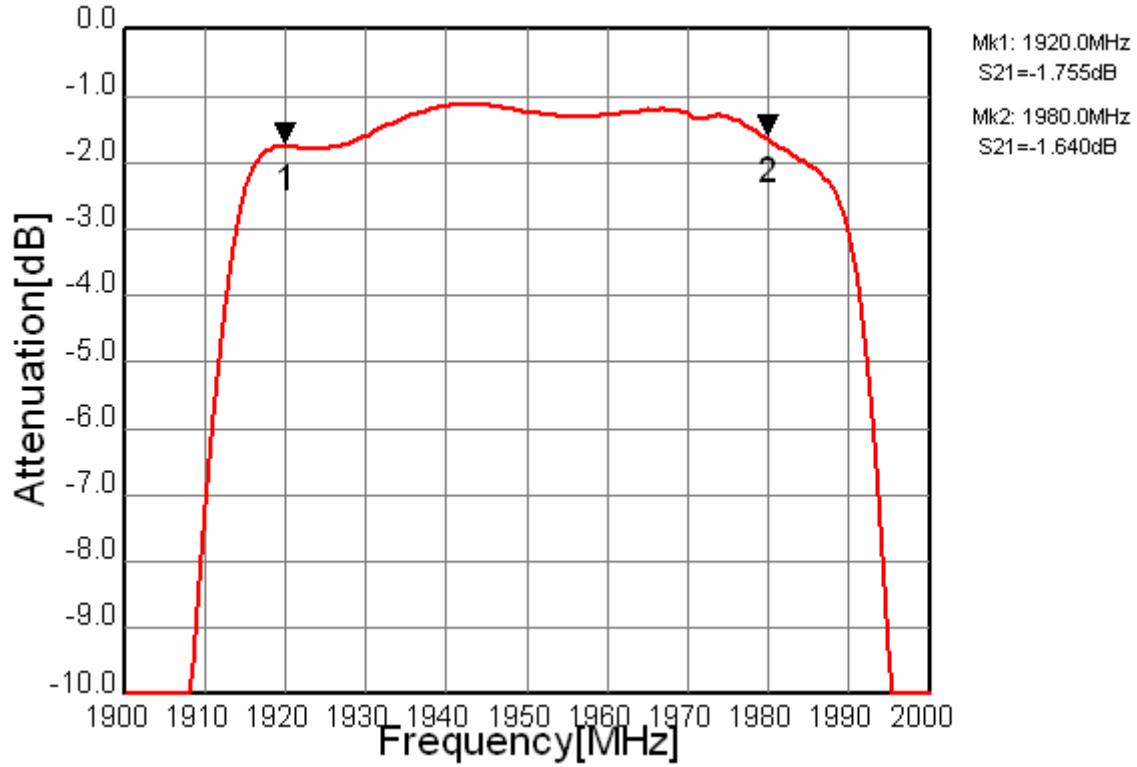


Fig.3 In-band Characteristics

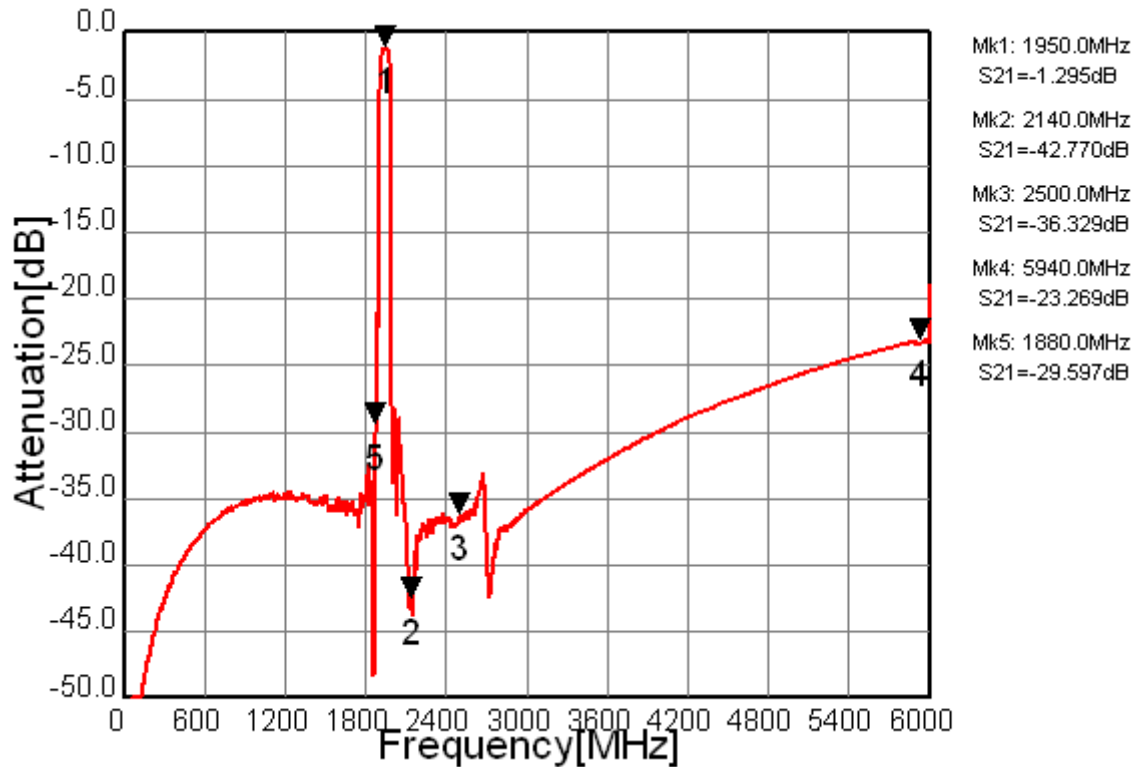


Fig.4 Wide-band Characteristics



MSL1

\*Pb Free part

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System	Band1 Tx (50/50ohm)	DATE	March 21, 2012
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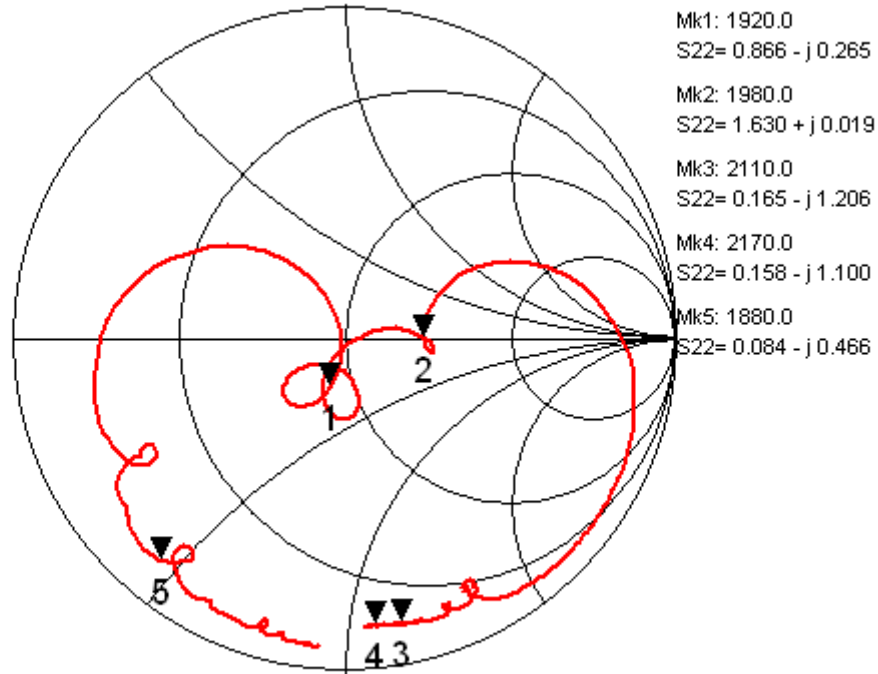


Fig.5 Input Impedance

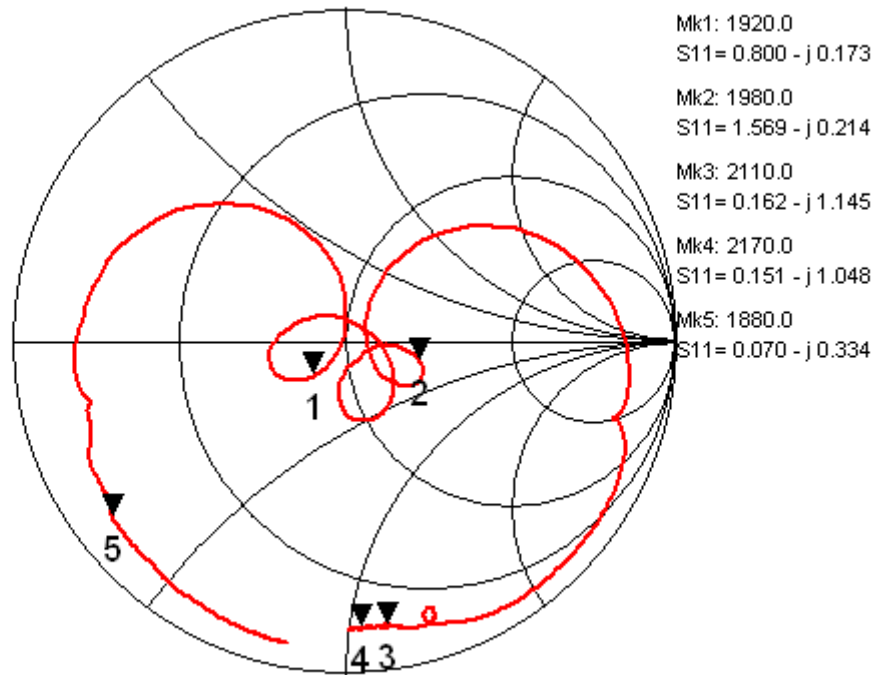


Fig.6 Output Impedance



MSL1

\*Pb Free part

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System	Band1 Tx (50/50ohm)	DATE	March 21, 2012
Part Number	F6QA1G950M2AA	Version 1.0a	<b>Final</b>

## Ordering Code

Ordering Code	Packing	Reel size	Status
F6QA1G950M2AA-J	Tape & Reel	5,000 pcs.	MP
F6QA1G950M2AA-J	Tape & Reel	less than 5,000 pcs.	MP
F6QA1G950M2AA-Y	Tape & Reel	15,000 pcs.	MP
F6QA1G950M2AA-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QA1G950M2AA-Q	Bulk	few pcs.	MP

\*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives.

\*MP : Mass Production

## Notice

All of the contents specified herein are subject to change without notice due to technical improvements, etc.

Please contact Taiyo Yuden Co., Ltd. for further details of product specifications.

Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact TAIYO YUDEN in advance.

In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.