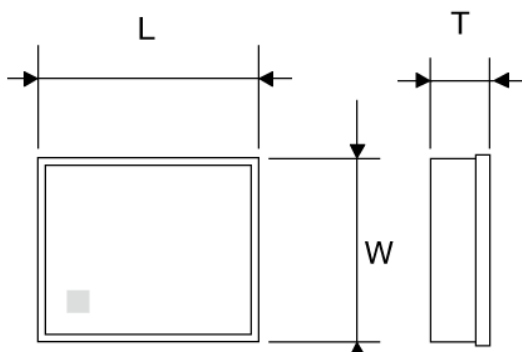


# SAW Filter

## F5KA707M5D4JW



### ■ Features

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

### ■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B12
Use	LTE
Transmitting / Receiving	Tx Filter
Insertion Loss	1.6dB
Attenuation	23dB
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	Band12 Tx	Date	Jan. 30, 2013
Part Number	F5KA707M5D4JW	Version 3.0c	Final

Table 1. Electrical Specifications

Passband:699 ~ 716MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	699~716	-	1.6	2.3	dB(*1)	
Ripple	699~716	-	0.9	1.6	dB	
VSWR (Input)	699~716	-	1.7	2.0	-	
VSWR (Output)	699~716	-	1.7	2.0	-	
Absolute attenuation	10~670	30	60	-	dB	
	670~692	20	34	-	dB	
	722~729	1.5	3.7	-	dB	
	729~746	15	23	-	dB	
	1386~1442	45	69	-	dB	
	1574.42~1576.42	45	72	-	dB	
	2084~2158	40	50	-	dB	
	2782~2874	25	53	-	dB	
Input power		-	-	13	dBm	
Input impedance		50			Ohms	Single-ended
Output impedance		50			Ohms	Single-ended
Device size		1.4typ. x 1.0typ. x 0.5max			mm	
Temperature range		-30 to +85			°C	

(\*1) Specification of insertion loss excludes loss that comes from the test board.



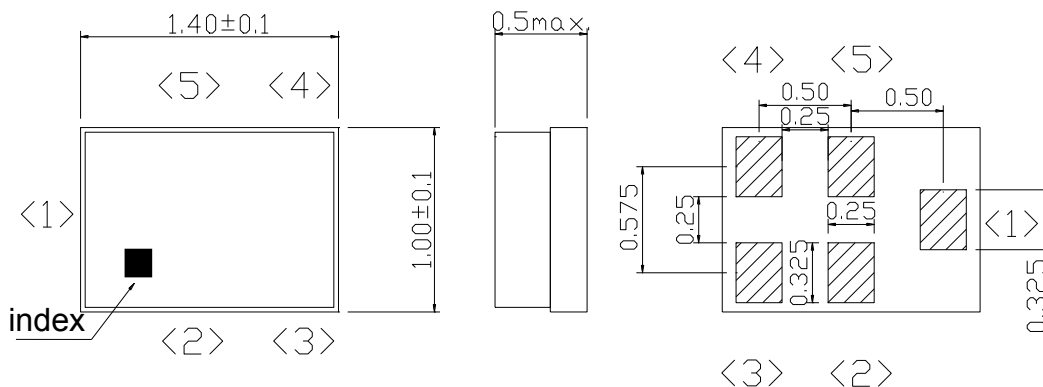
MSL1

\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band12 Tx	Date	Jan. 30, 2013
Part Number	F5KA707M5D4JW	Version 3.0c	Final

### Dimensions

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

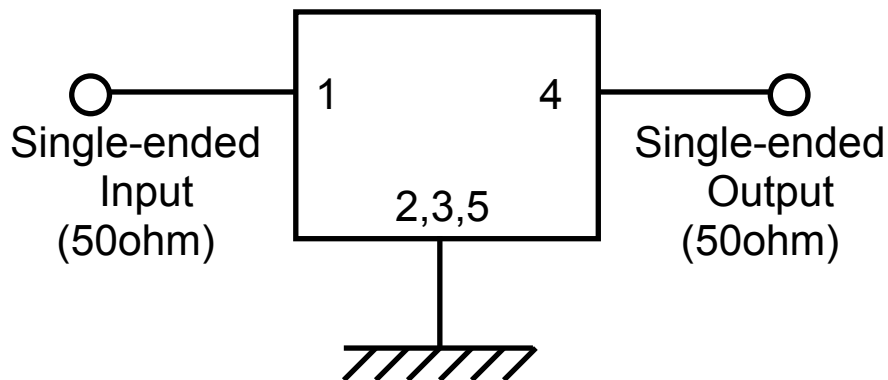


Unit : mm

### Pin Configuration

Pin No.	Symbol	Function
1	IN	Single-ended pin
2	GND	Ground
3	GND	Ground
4	OUT	Single-ended pin
5	GND	Ground

### Evaluation Circuit





MSL1

\* Pb Free Part

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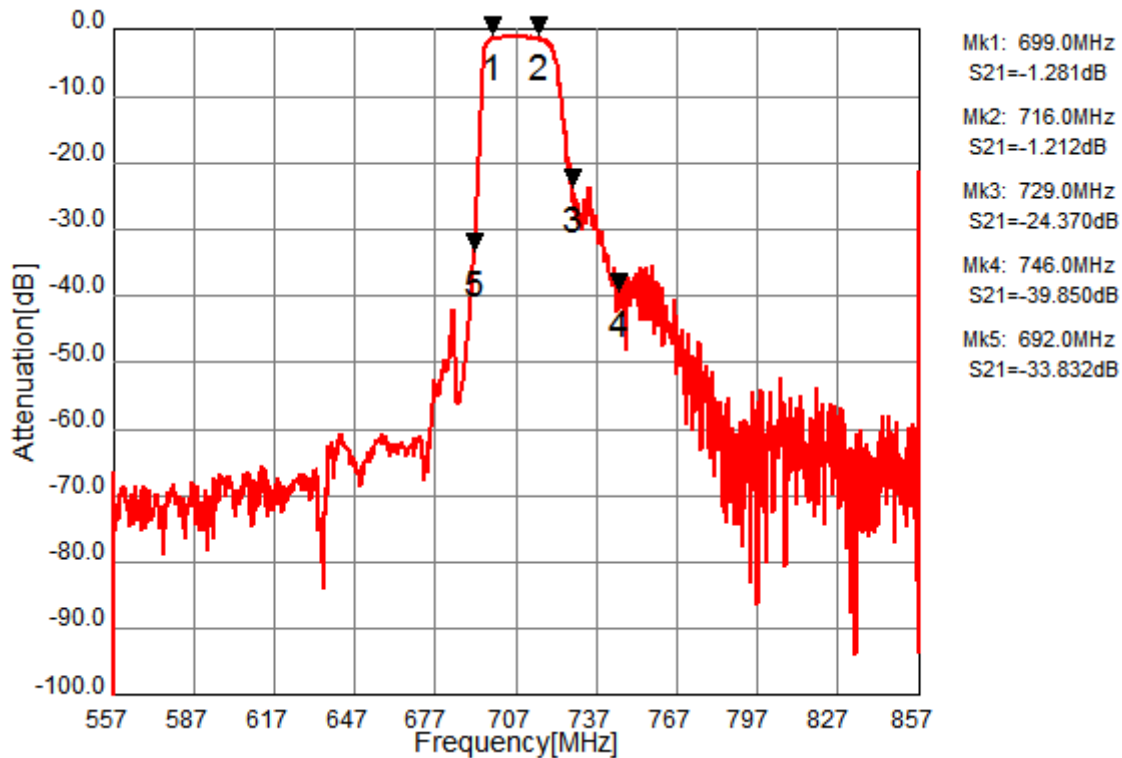


Fig.1 Pass-band Characteristics

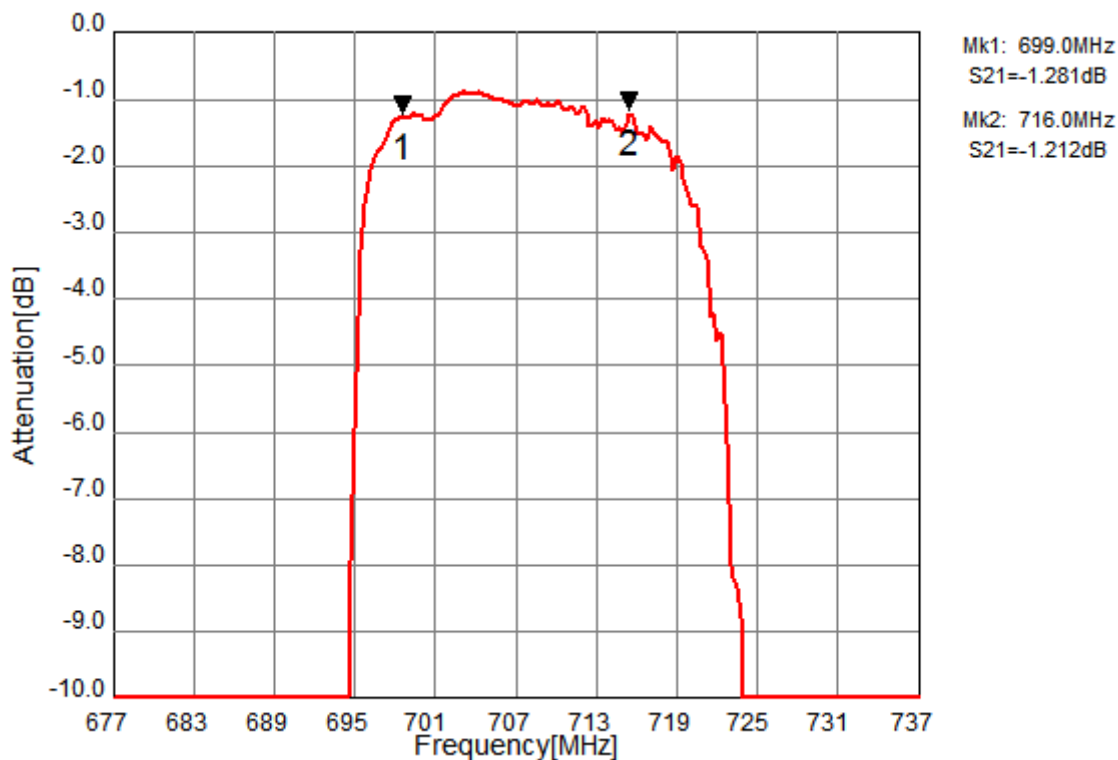


Fig.2 In-band Characteristics



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\* Pb Free Part

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Part Number	F5KA707M5D4JW	Version 3.0c	Final

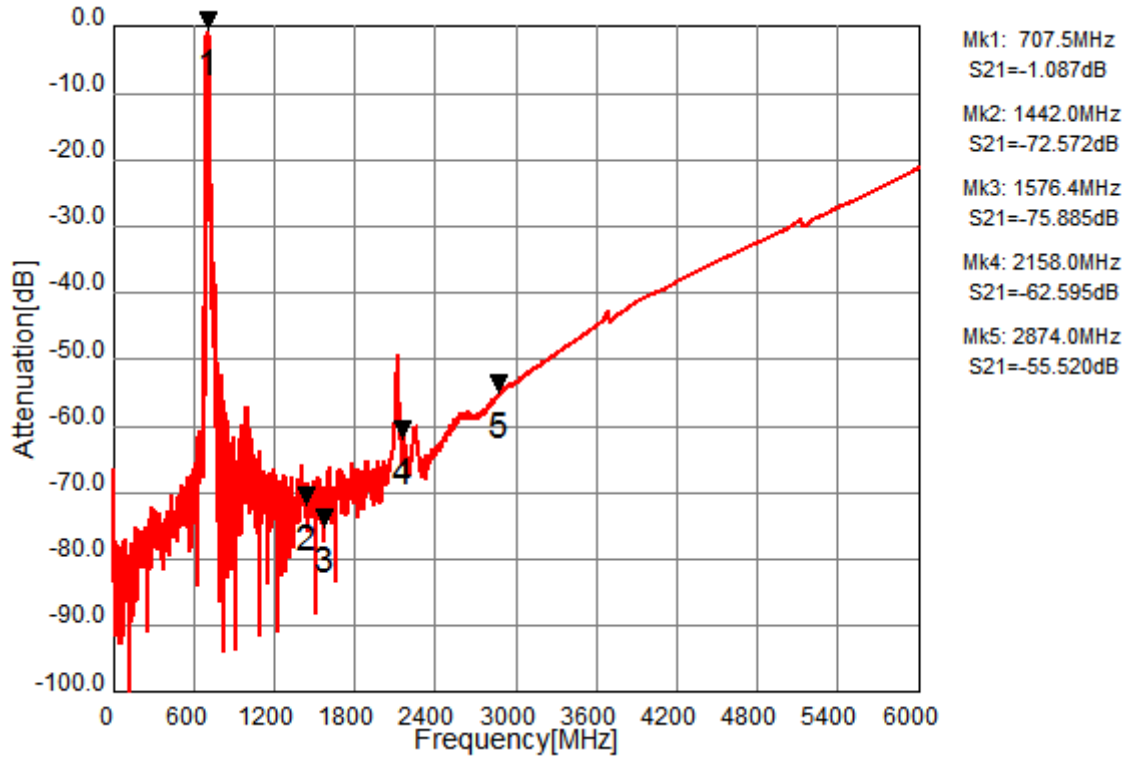


Fig.3 Wide-band Characteristics

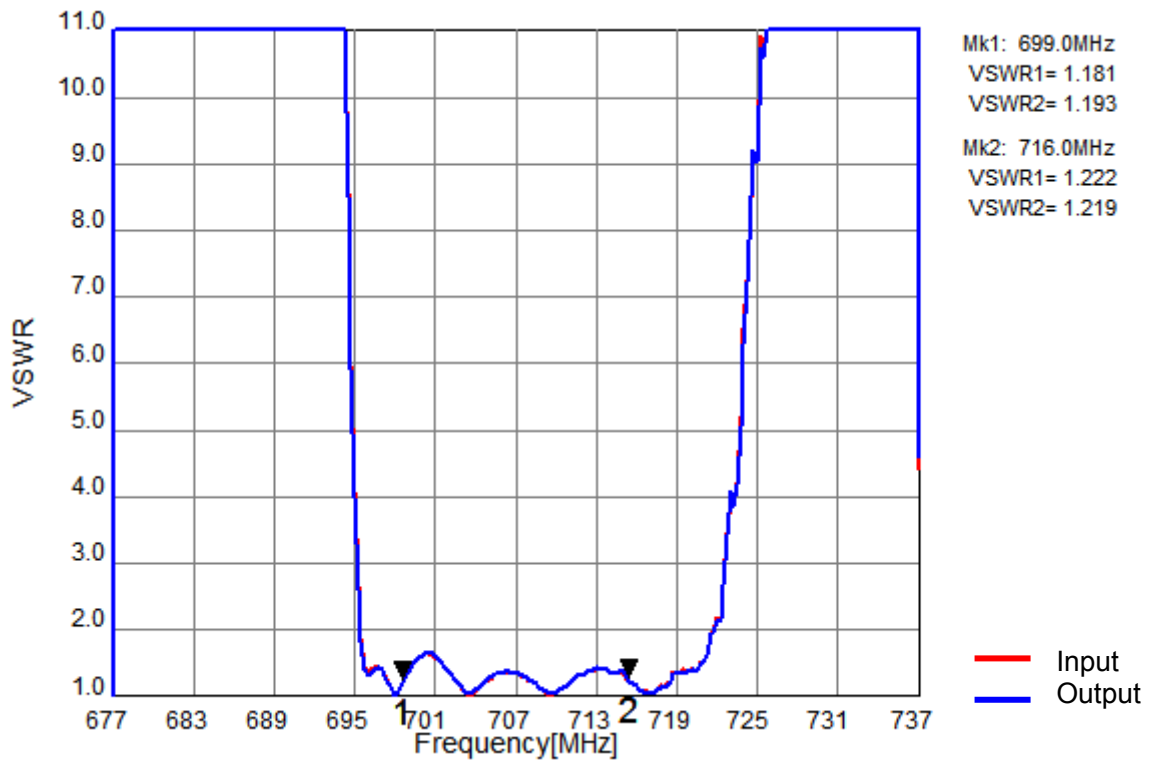


Fig.4 VSWR



MSL1

\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band12 Tx	Date	Jan. 30, 2013
Part Number	F5KA707M5D4JW	Version 3.0c	Final

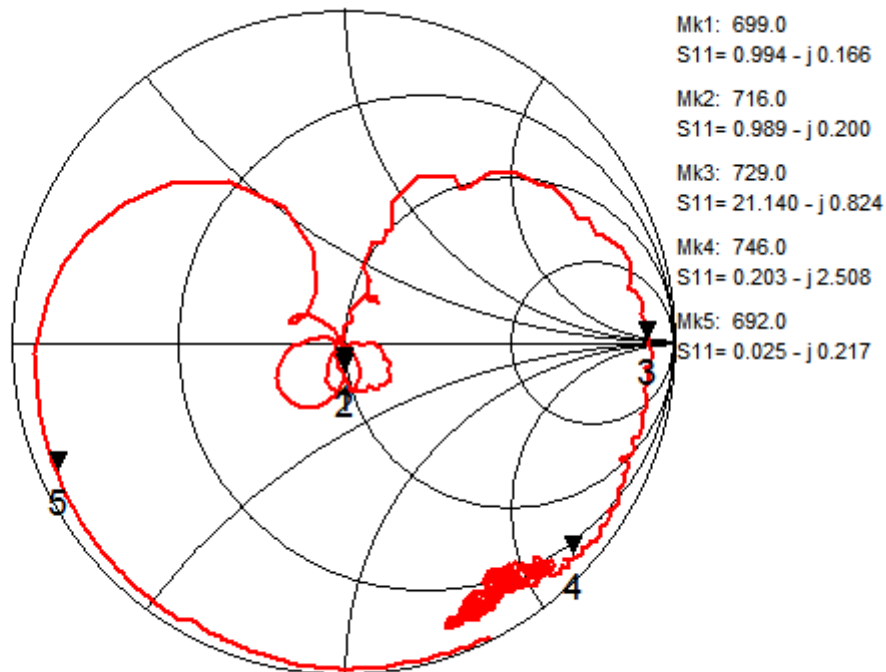


Fig.5 Input Impedance

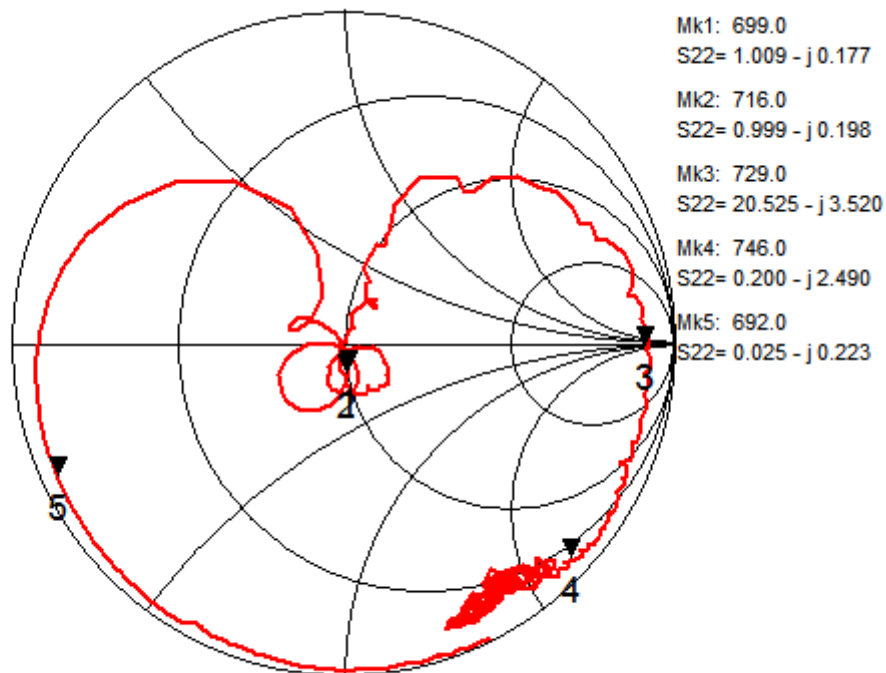


Fig.6 Output Impedance



MSL1

\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band12 Tx	Date	Jan. 30, 2013
Part Number	F5KA707M5D4JW	Version 3.0c	<b>Final</b>

## Ordering Code

Ordering Code	Packing	Reel size	Status
F5KA707M5D4JW-Z	Tape & Reel	3,000pcs.	MP
F5KA707M5D4JW-ZA	Tape & Reel	less than 3,000 pcs.	MP
F5KA707M5D4JW-Y	Tape & Reel	15,000pcs	MP
F5KA707M5D4JW-YA	Tape & Reel	less than 15,000pcs.	MP
F5KA707M5D4JW-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.