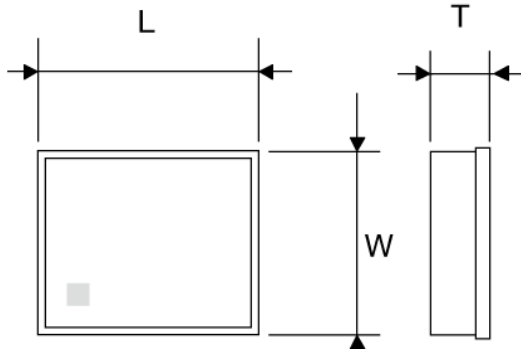


# SAW Filter

## F5KA847MOD4ML



### ■ Features

- Item Summary  
LTE, 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)	B20
Use	LTE
Transmitting / Receiving	Tx Filter
Insertion Loss	1.7dB
Attenuation	52dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

### ■ External Dimensions

L	1.4mm +0.1:-0.1
W	1mm +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	Band 20 Tx	Date	Dec. 22, 2011
Part Number	F5KA847M0D4ML	Version 2.1b	Final

**Table 1 Electrical Specification**

Passband: 832 ~ 862 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	832~862	-	1.7	2.3	dB	(*1)
Ripple	832~862	-	0.7	1.3	dB	
Absolute Attenuation	0~791	40	61	-	dB	
	791~821	40	52	-	dB	
	925~960	38	48	-	dB	
	1570~1580	35	57	-	dB	
	1664~1724	30	57	-	dB	
	1805~1880	30	55	-	dB	
	2110~2170	25	55	-	dB	
	2400~2690	25	45	-	dB	
	3328~3448	20	57	-	dB	
	4160~4310	20	41	-	dB	
5000~6000	10	19	-	dB		
VSWR	Input	-	2.0	2.3	-	
	Output	832~862	-	2.0	2.3	-
Input Impedance	Single-ended	50			ohm	
Output Impedance	Single-ended	50			ohm	
Operating Temperature		-30 to +85			°C	

(\*1) Specification of insertion loss includes loss that comes from the test board.(0.05dB)



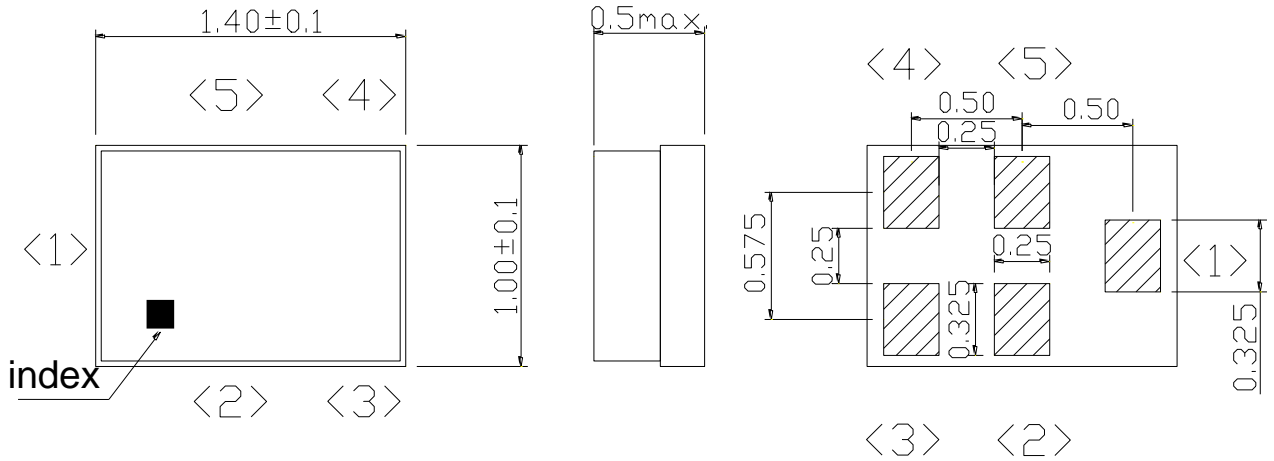
MSL1

\* Pb Free Part

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Part Number	F5KA847M0D4ML	Version 2.1b	Final

### Dimensions

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

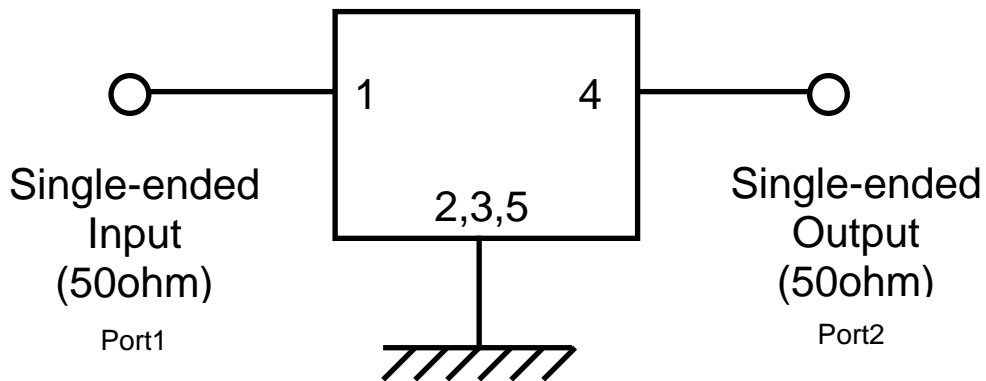


Unit: mm

### 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 Condition





MSL1

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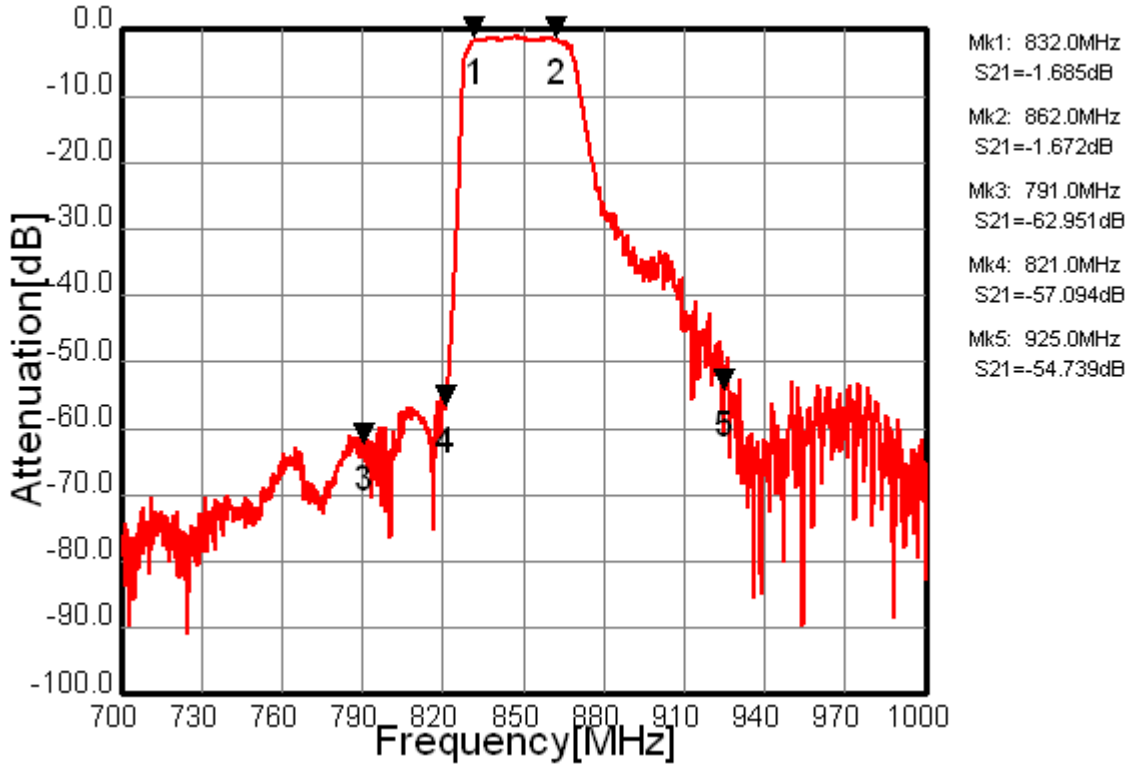


Fig.1 Pass-band Characteristic

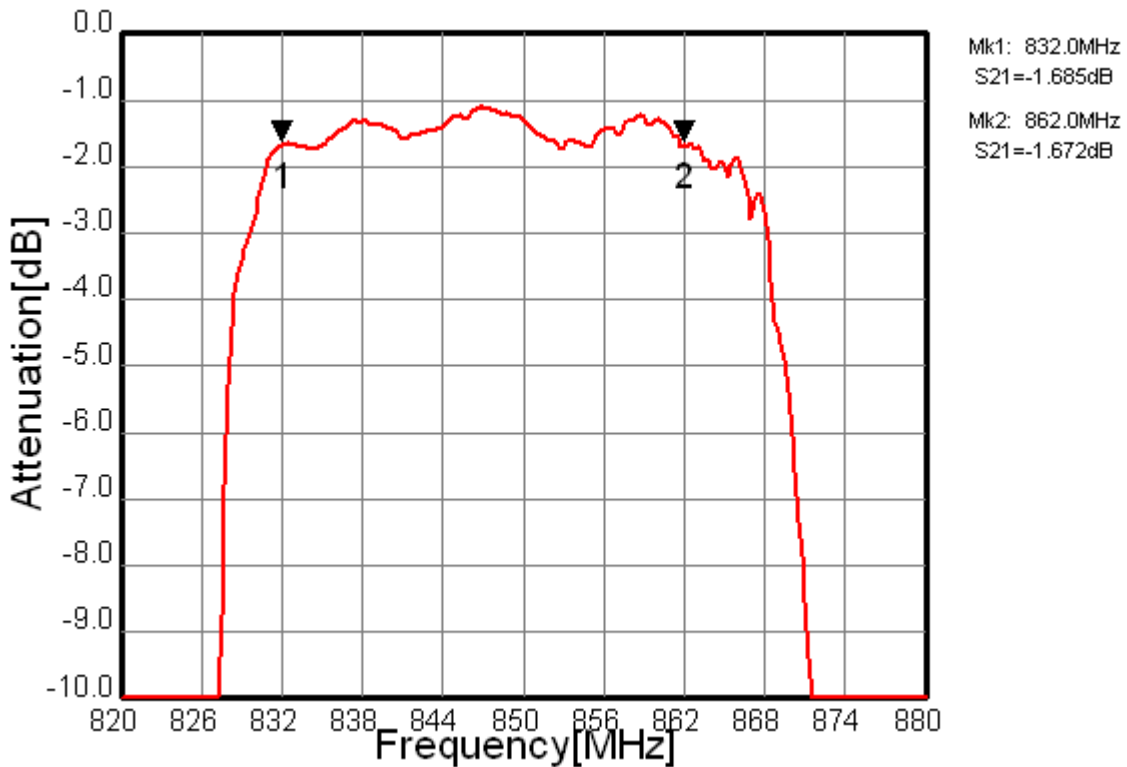


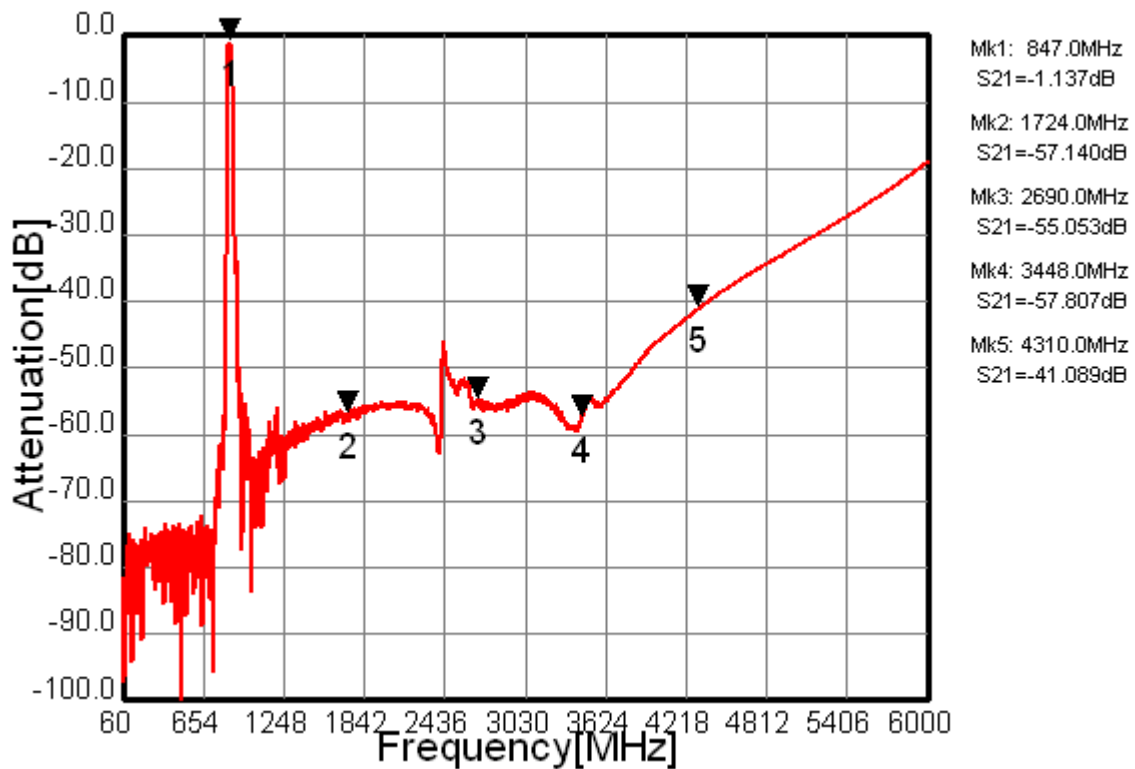
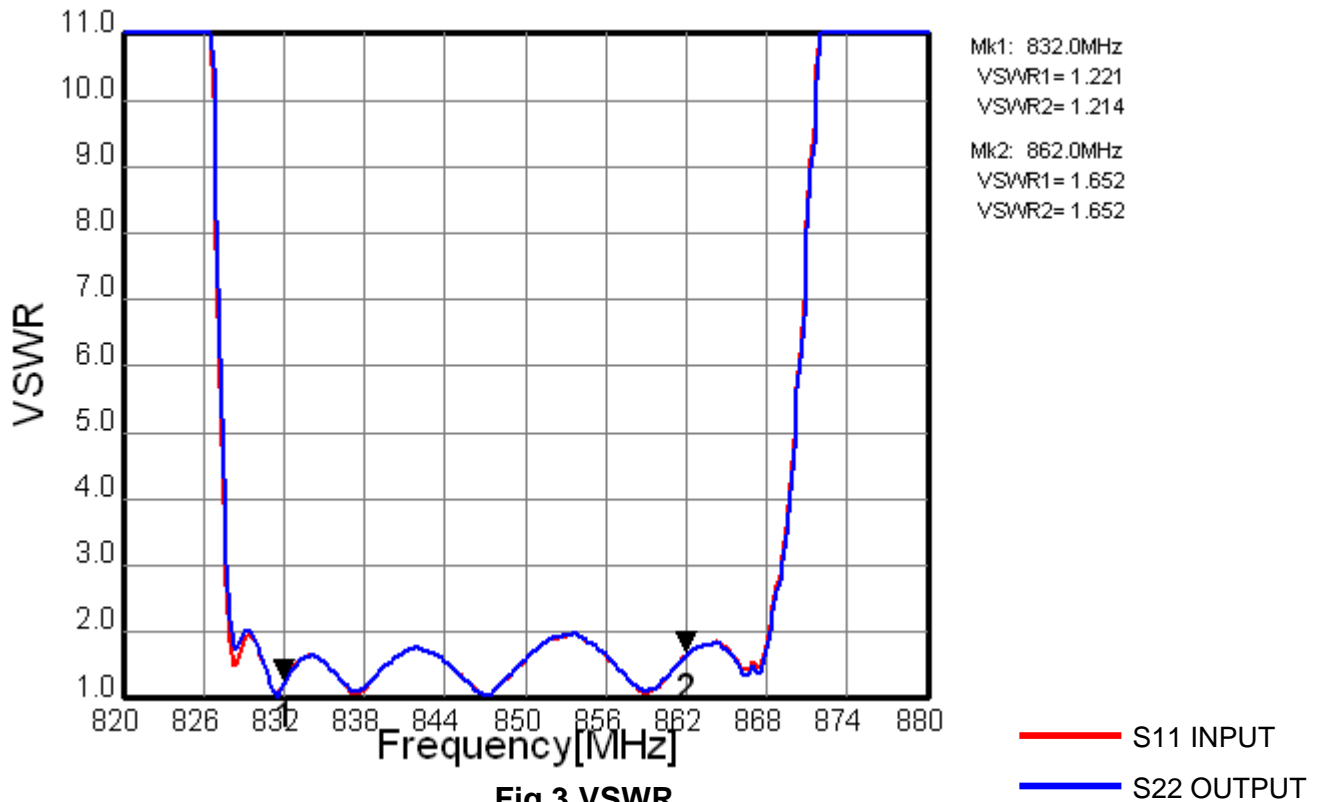
Fig.2 In-band Characteristic



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\* Pb Free Part

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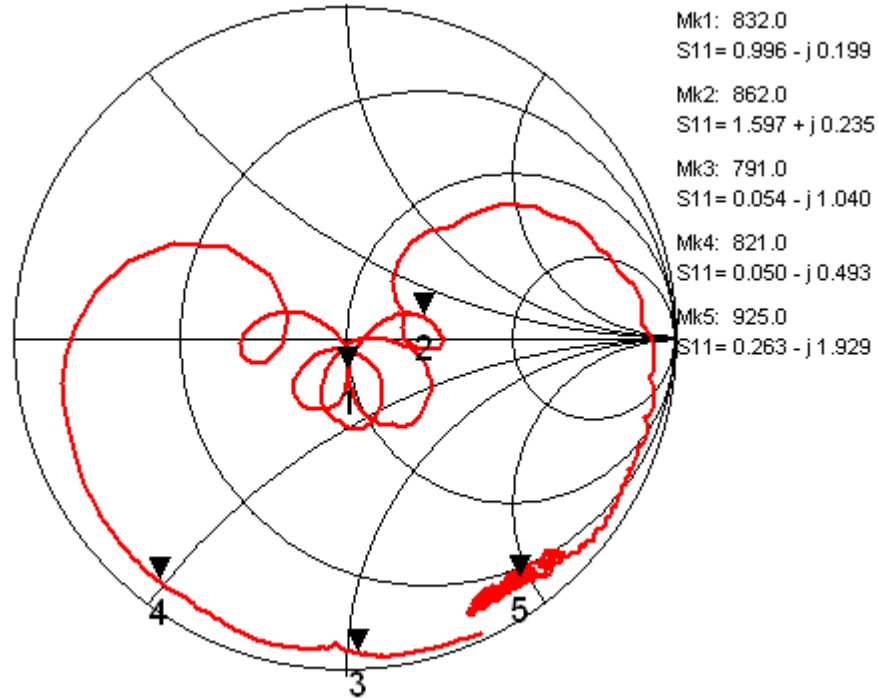


Fig.5 Impedance (S11 INPUT)

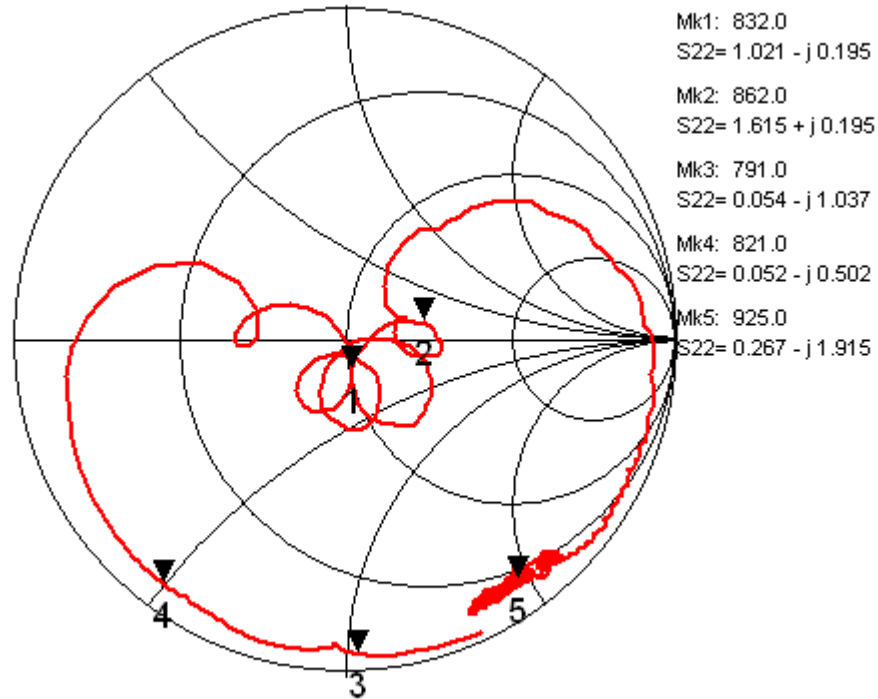


Fig.6 Impedance (S22 OUTPUT)



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\* Pb Free Part

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Part Number	F5KA847M0D4ML	Version 2.1b	Final

## Ordering Code

Ordering Code	Packing	Reel size	Status
F5KA847M0D4ML-Z	Tape & Reel	3,000pcs.	MP
F5KA847M0D4ML-ZA	Tape & Reel	less than 3,000 pcs.	MP
F5KA847M0D4ML-Y	Tape & Reel	15,000pcs	MP
F5KA847M0D4ML-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.