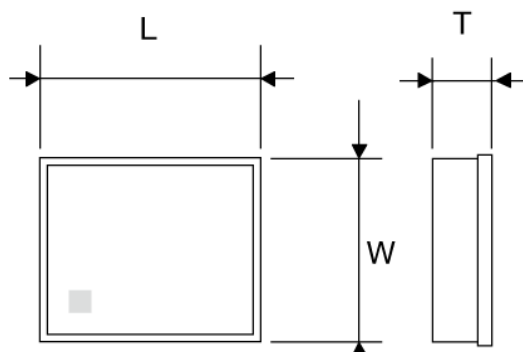


## SAW Filter

## F5KA822M5D4VR



## ■ 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)	B18
Use	LTE
Transmitting / Receiving	Tx Filter
Insertion Loss	1.6dB
Attenuation	42dB
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	<b>Standard specification</b>	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVIII- Tx (50/50ohm Unbalance)	DATE	Jan. 23, 2012
Part Number	F5KA822M5D4VR	Version 3.0 c	<b>Final</b>

**Table 1 Electrical Specification**

Passband : 815 ~ 830 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	815~ 830	-	1.6	2.0	dB	
Ripple	815~ 830	-	1.2	1.0	dB	
Absolute attenuation	DC ~ 725	35	48	-	dB	
	725 ~ 790	30	42	-	dB	
	860 ~ 875	35	40	-	dB	
	875 ~ 1000	36	42	-	dB	
	1000 ~ 2000	30	37	-	dB	
	2000 ~ 3000	25	32	-	dB	
VSWR(Input)	815~ 830	-	1.7	2.0	-	
VSWR(Output)	815~ 830	-	1.7	2.0	-	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Unbalanced	50			ohm	
Input Power	815~ 830	-	-	+12	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		1.4typ. x 1.0typ. x 0.5max.			mm	



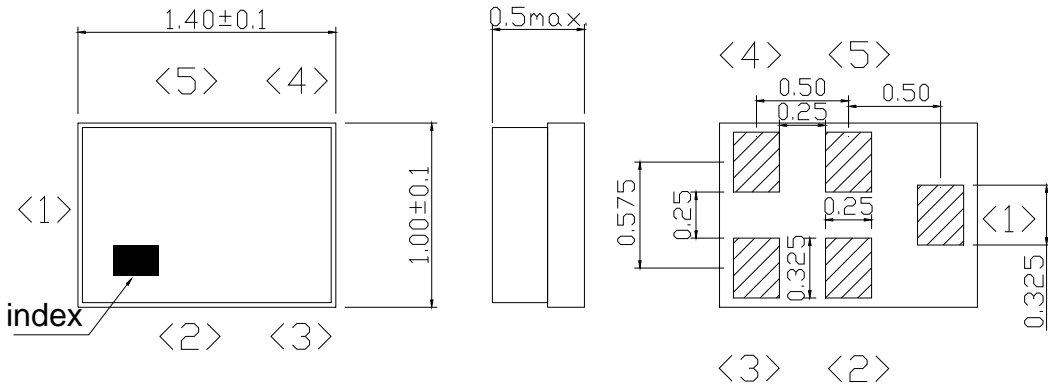
MSL1

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**Dimension**

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

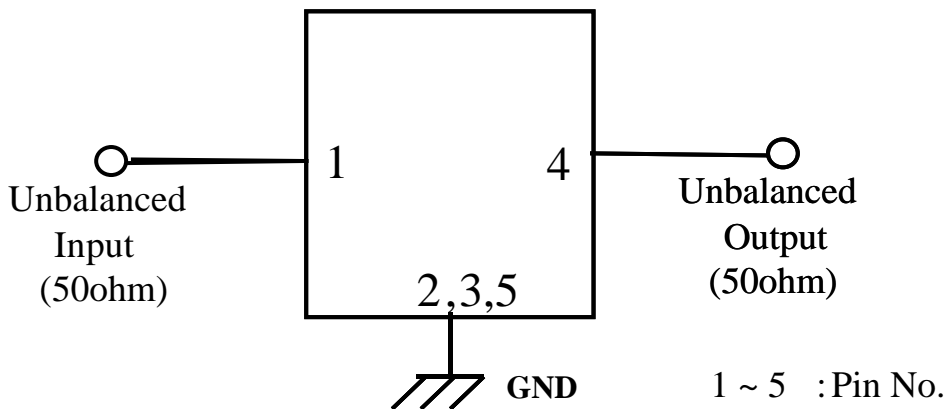


Unit: mm

**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**





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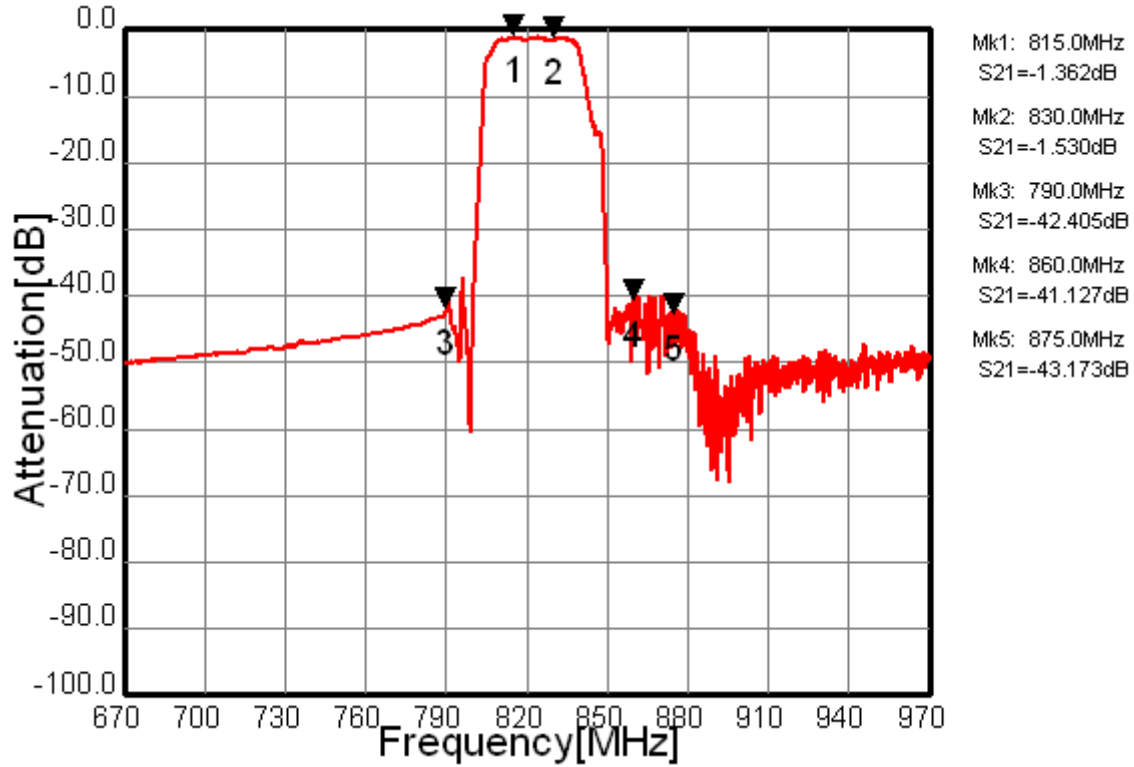


Fig.1 Pass-band Characteristics

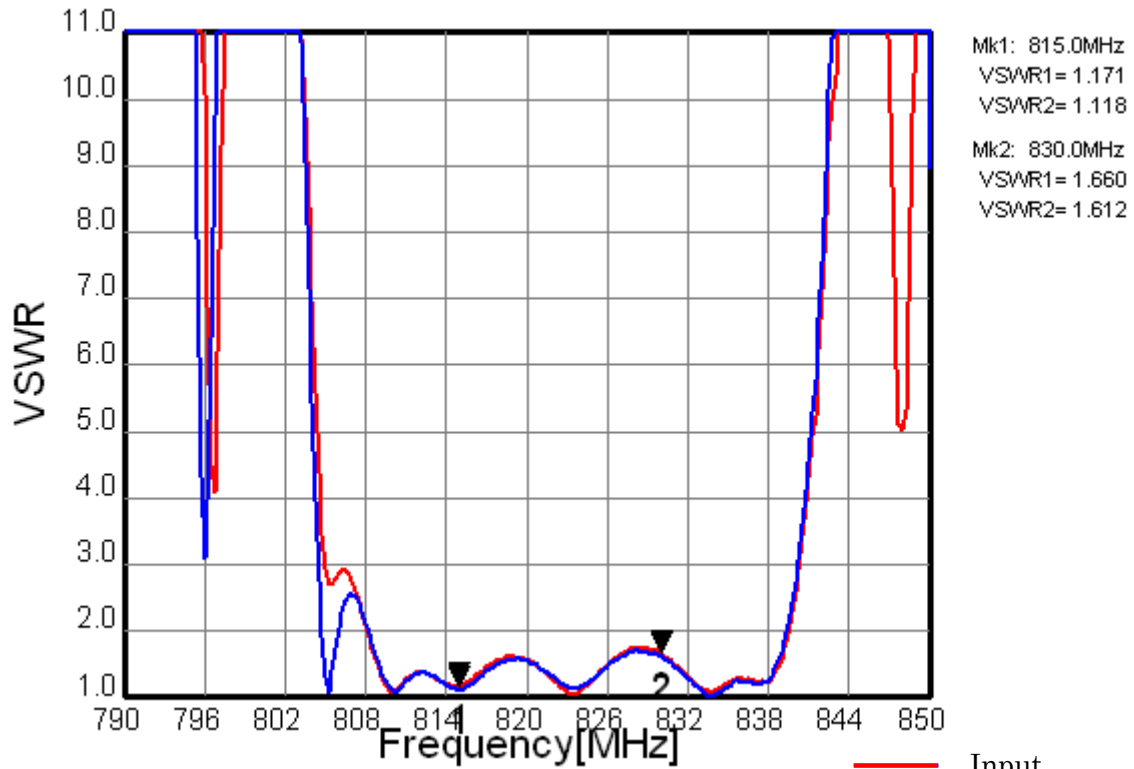


Fig.2 VSWR

— Input  
— Output



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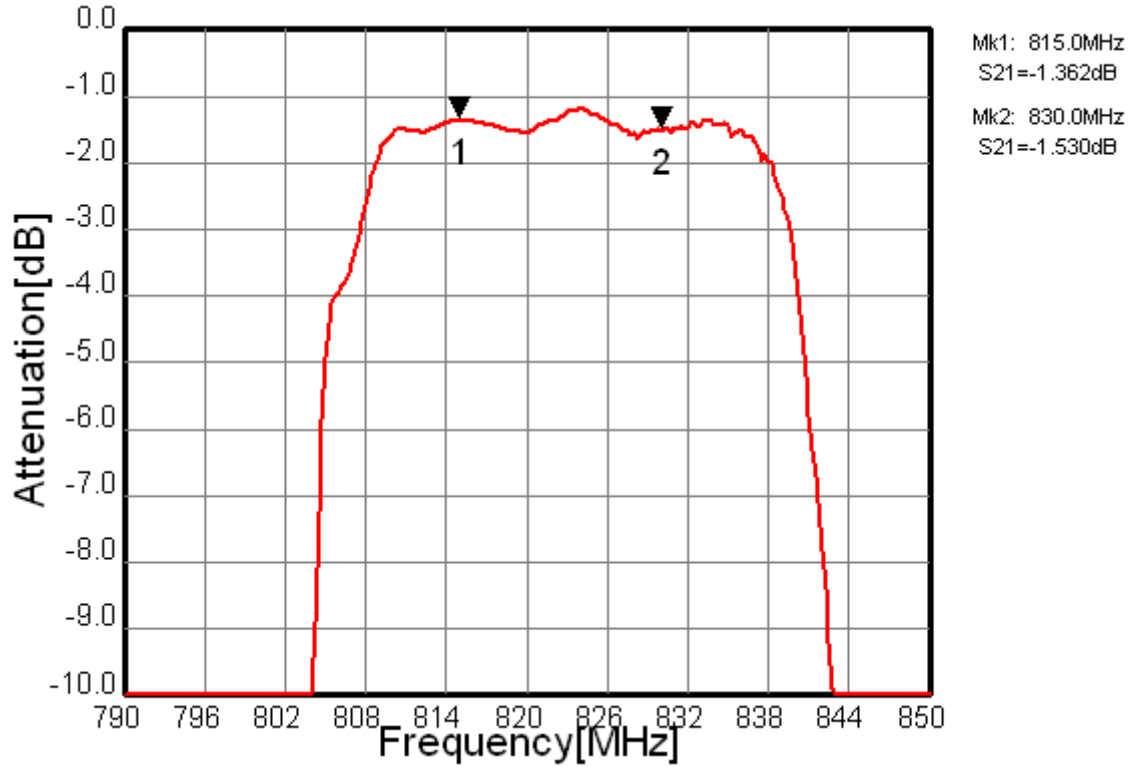


Fig.3 In-band Characteristics

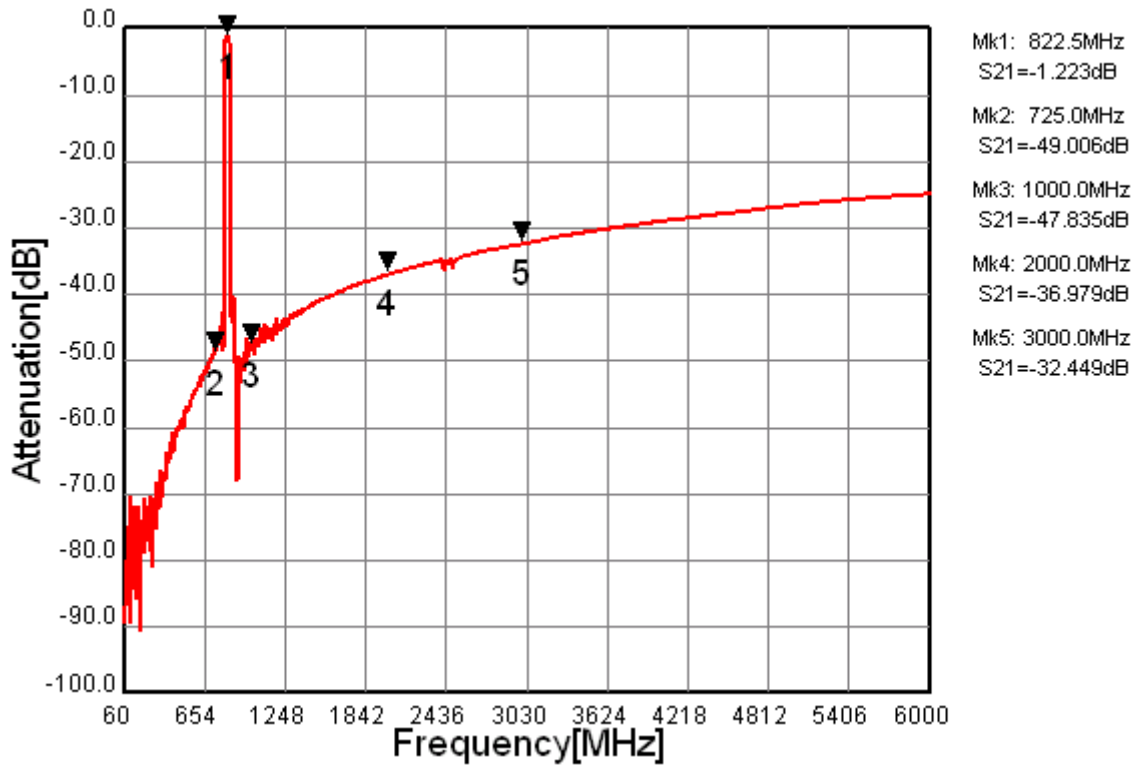


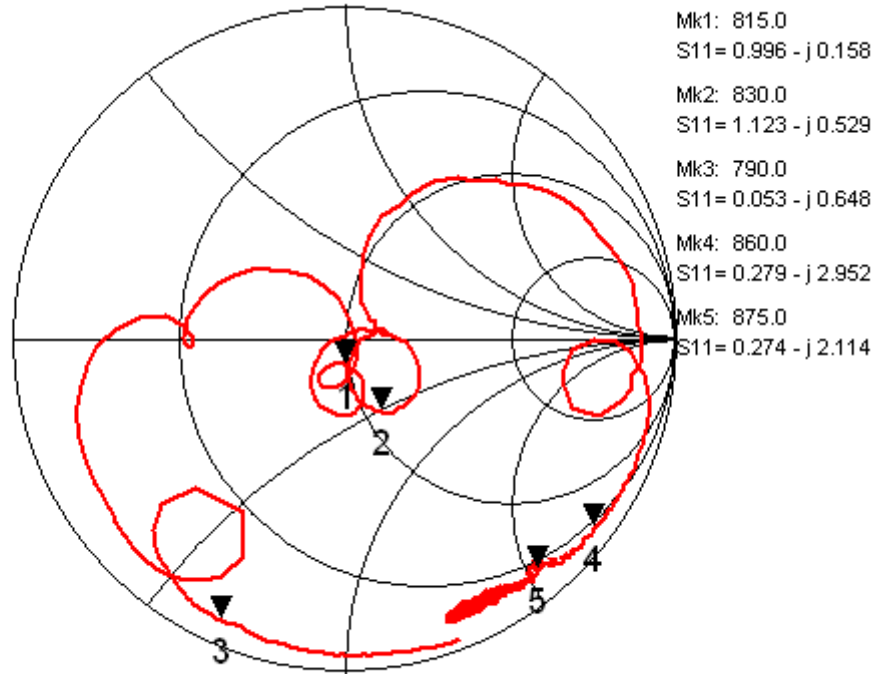
Fig.4 Wide-band Characteristics



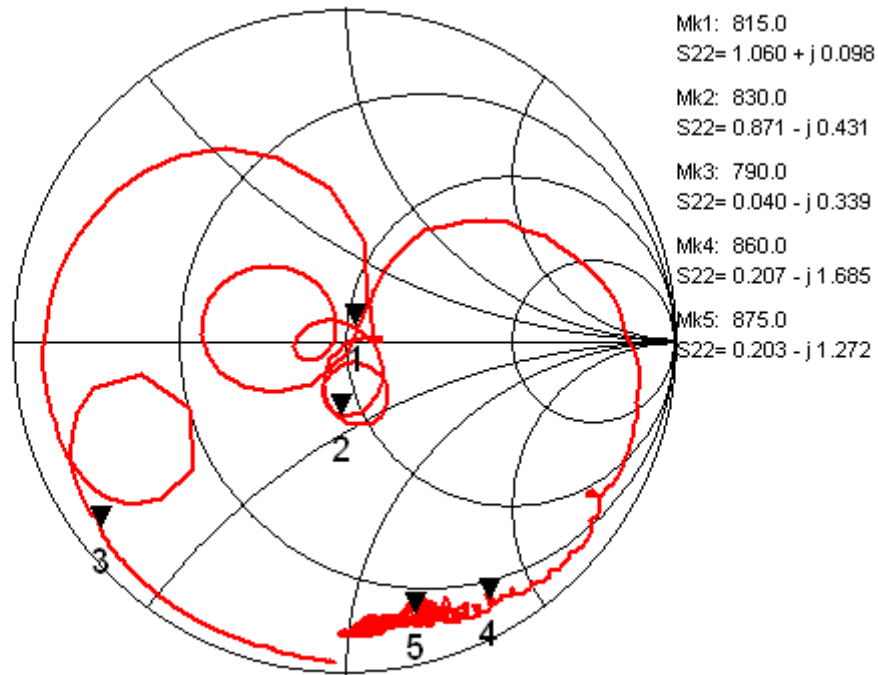
MSL1

\* Pb Free Part

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**Fig.5 Input Impedance (Unbalance)**



**Fig.6 Output Impedance (Unbalance)**



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Part Number	F5KA822M5D4VR	Version 3.0 c	<b>Final</b>

## Ordering Code

Ordering Code	Packing	Reel size	Status
F5KA822M5D4VR-Z	Tape & Reel	3,000pcs.	MP
F5KA822M5D4VR-ZA	Tape & Reel	less than 3,000 pcs.	MP
F5KA822M5D4VR-Y	Tape & Reel	15,000pcs	MP
F5KA822M5D4VR-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.