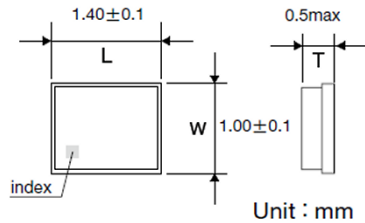


FBAR/SAW Devices (SAW Type)

F5KA833M0D4MG



■ Features

- Item Summary
SAW, Tx Type, 1.4x1.0x0.5mm
BC 0 / BC10
- Lifecycle Stage
Non-preferred
- Standard packaging quantity (minimum)
Taping Embossed 3000 , 15000pcs

■ Products characteristics table

System	CDMA
Type	SAW
Function	Tx Type
band	BC 0 / BC10
Insertion Loss (typ)	1.4 dB
Attenuation (typ)	20 dB
Operating Temp. Range	-30 to +85 °C
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	1.4 ± 0.10 mm
Dimension W	1.0 ± 0.10 mm
Dimension T	Max 0.5 mm

2017.08.13

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
 TAIYO YUDEN reserves the right to make change to the data 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	BC0+BC10-Tx	DATE	Sep. 28, 2010
Part Number	F5KA833M0D4MG	Version 1.1 a	

Table 1. Electrical Specification

Item	Condition (MHz)	Min.	Typ.	Max.	Unit	Remarks
Insertion Loss	817 - 849	-	1.4	2.0	dB(*1)	
Ripple	817 - 849	-	0.7	1.4	dB	
VSWR (Input)	817 - 849	-	2.0	2.5	-	
VSWR (Output)	817 - 849	-	2.1	2.5	-	
Absolute attenuation	862 - 894	13	20	-	dB	
	1570 - 1580	35	50	-	dB	
	2451 - 2547	30	37	-	dB	
Input impedance	-	50			Ohms	
Output impedance	-	50			Ohms	
Temperature range	-	-30 to +85			°C	
Package size	-	1.4 typ x 1.0 typ x 0.5 max			mm	

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



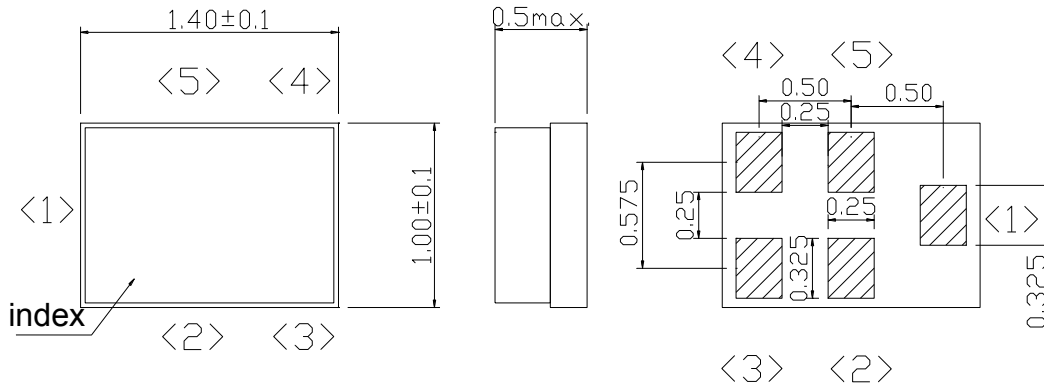
MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	BC0+BC10-Tx	DATE	Sep. 28, 2010
Part Number	F5KA833M0D4MG	Version 1.1 a	

Dimensions

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

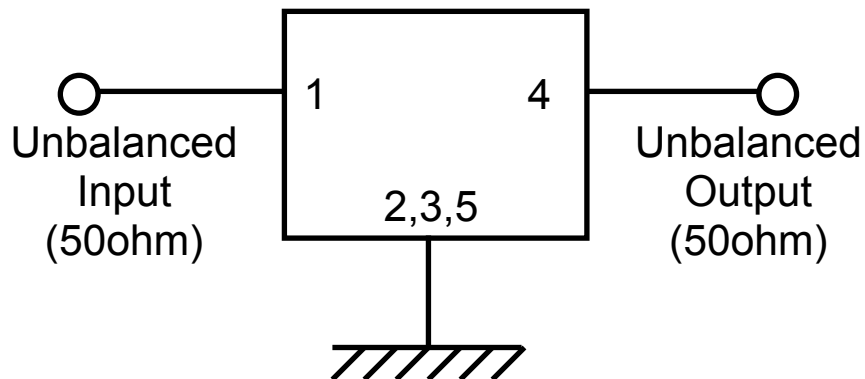


Unit : mm

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





MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	BC0+BC10-Tx	DATE	Sep. 28, 2010
Part Number	F5KA833M0D4MG	Version 1.1 a	

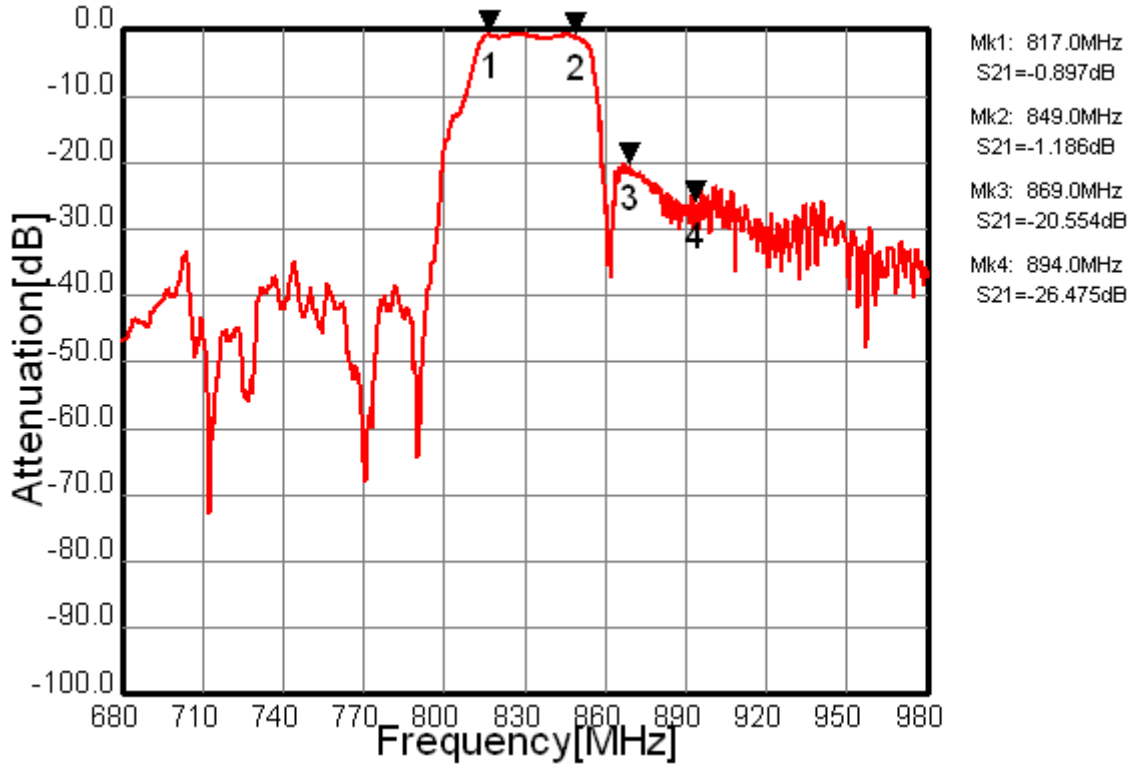


Fig.1 Pass-band Characteristics

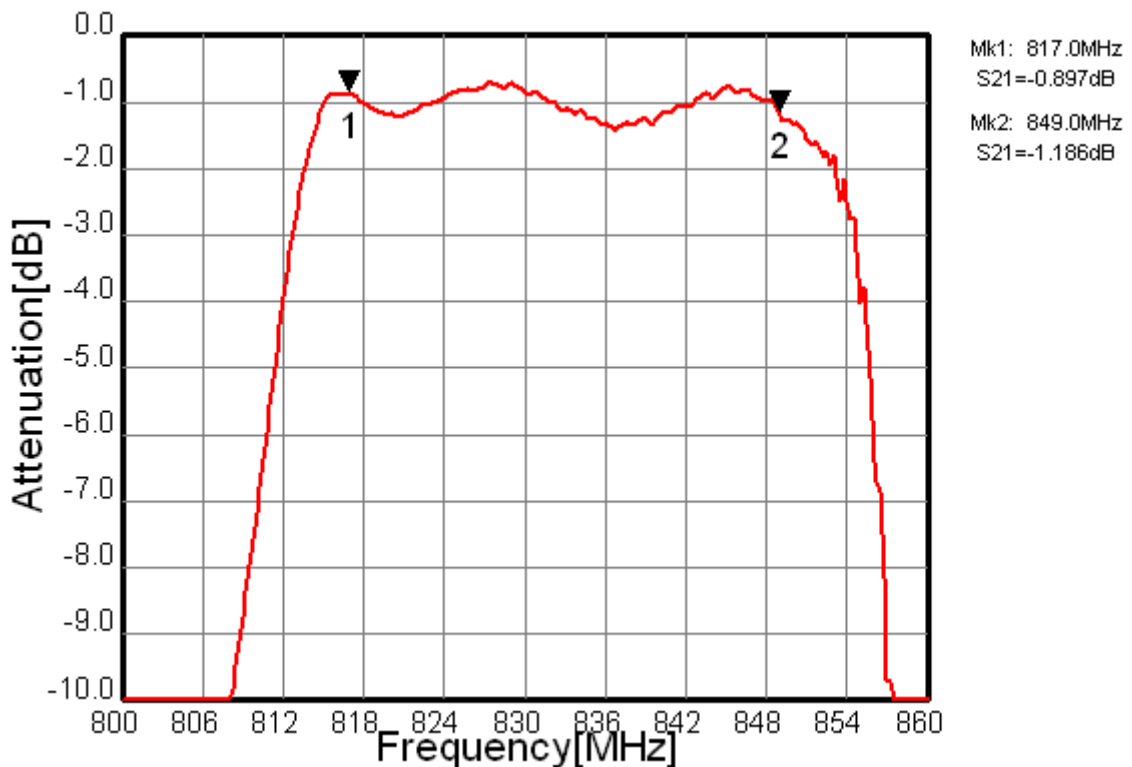


Fig.2 In-band Characteristics



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	BC0+BC10-Tx	DATE	Sep. 28, 2010
Part Number	F5KA833M0D4MG	Version 1.1 a	

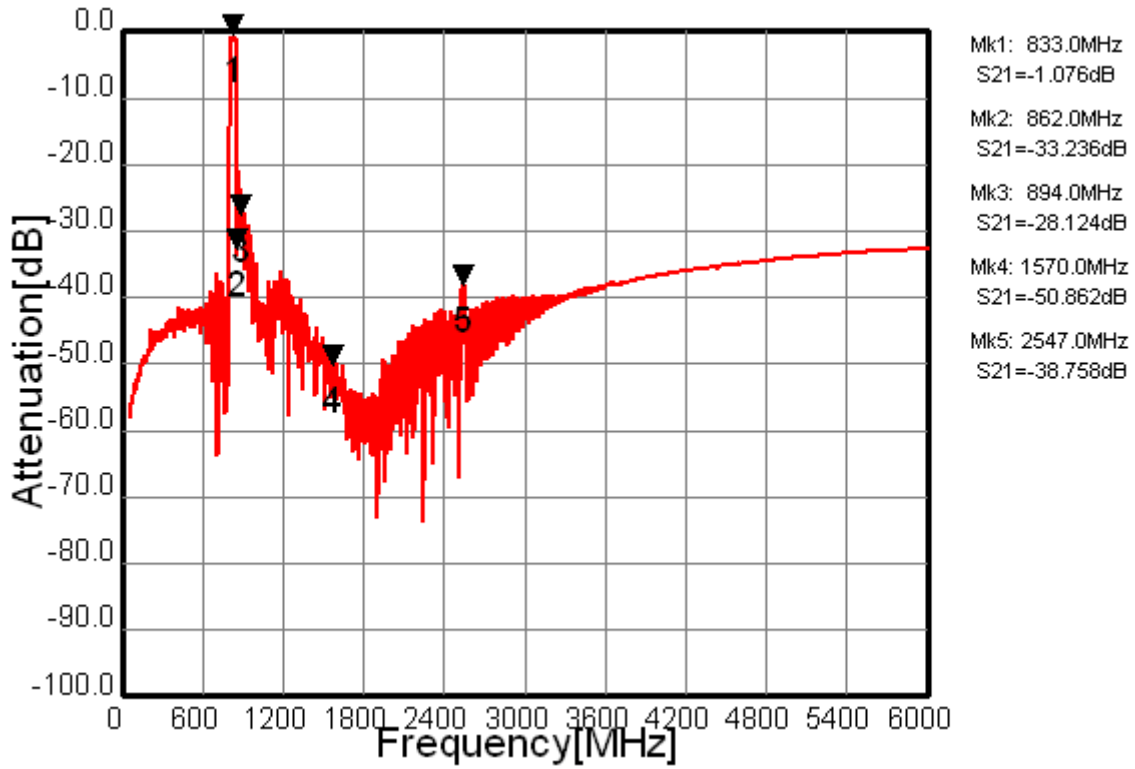


Fig.3 Wide-band Characteristics

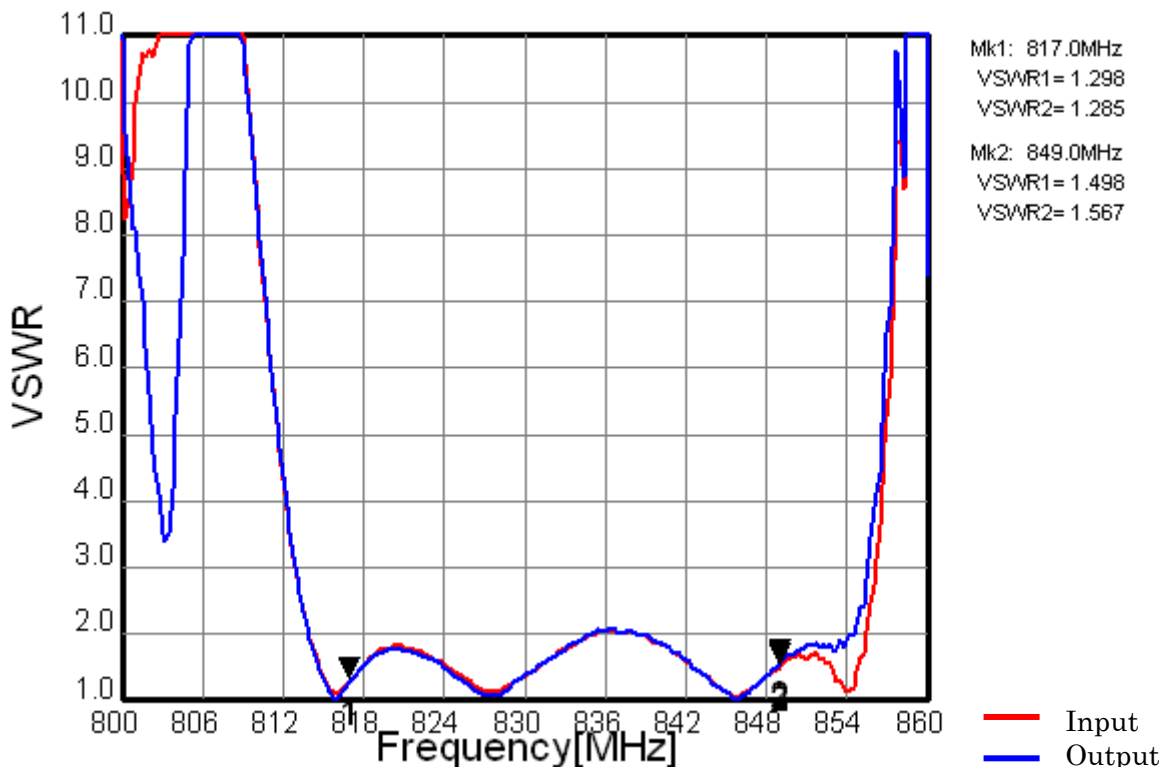


Fig.4 VSWR



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	BC0+BC10-Tx	DATE	Sep. 28, 2010
Part Number	F5KA833M0D4MG	Version 1.1 a	

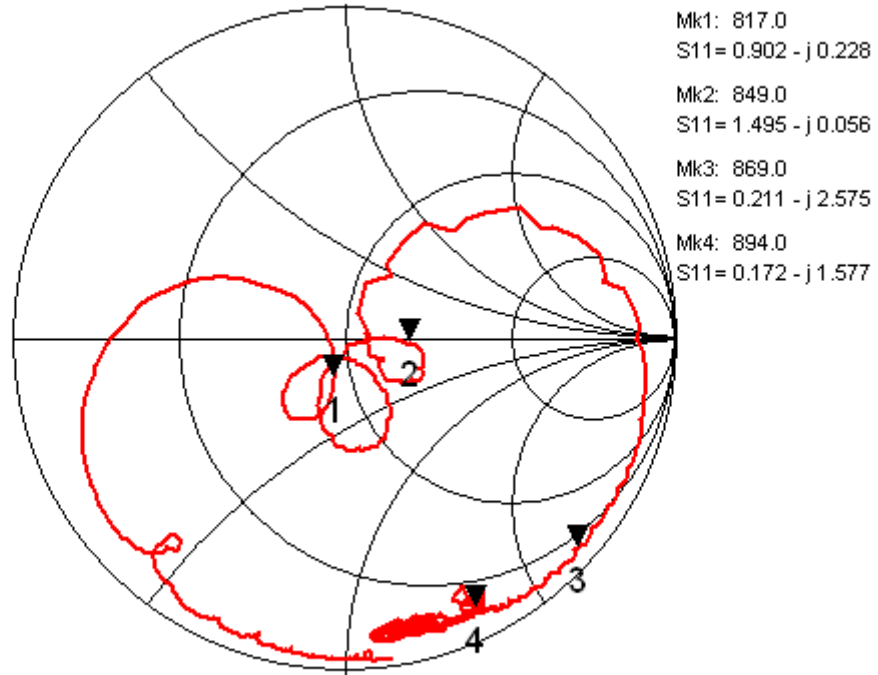


Fig.5 Input Impedance

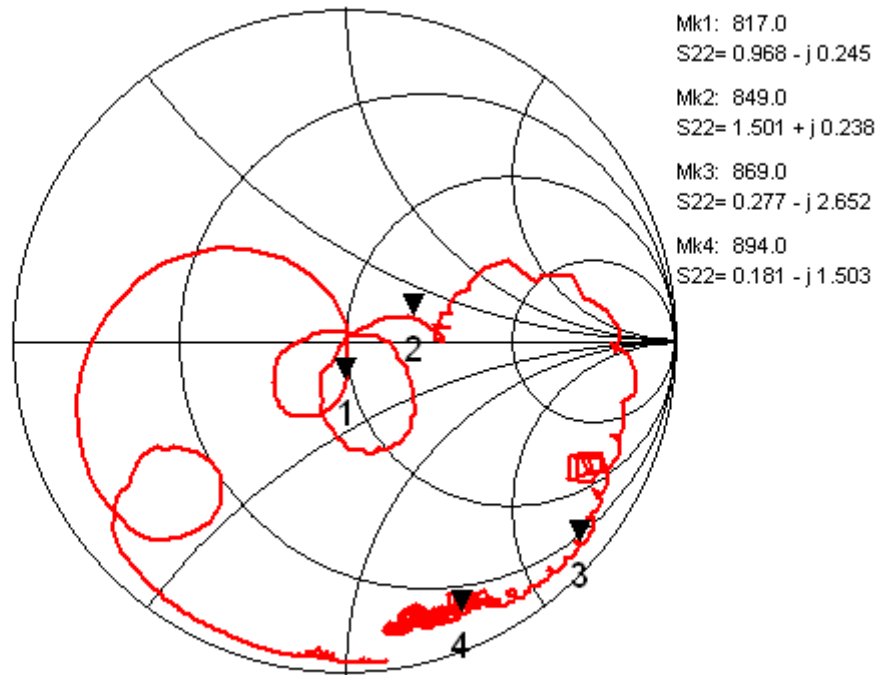


Fig.6 Output Impedance



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	BC0+BC10-Tx	DATE	Sep. 28, 2010
Part Number	F5KA833M0D4MG	Version 1.1 a	

Ordering Code

Ordering Code	Packing	Reel size
F5KA833M0D4MG-Z	Tape & Reel	3,000pcs.
F5KA833M0D4MG-ZA	Tape & Reel	less than 3,000 pcs.
F5KA833M0D4MG-Y	Tape & Reel	15,000pcs
F5KA833M0D4MG-YA	Tape & Reel	less than 15,000 pcs.
F5KA833M0D4MG-Q	Bulk	few pcs.

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

*Status : 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.