



* Pb Free Part



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band12&Band17 Rx	Date	Dec. 18, 2013
Part Number	F5QA737M5M2QN	Version 1.1aA	Final

Table 1. Electrical Specification

Passband: 729~746MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	729-746	-	1.6	2.4	dB(*1)	Band12 Rx
	734-746	-	1.6	2.1	dB(*1)	Band17 Rx
Ripple	729-746	-	0.5	1.3	dB	
	734-746	-	0.5	1.0	dB	
VSWR (Input)	729-746	-	1.8	2.0	-	
VSWR (Output)	729-746	-	1.8	2.0	-	
Absolute attenuation	1-699	40	55	-	dB	
	699-716	50	53	-	dB	
	716-722	20	38	-	dB	
	1710-2238	40	45	-	dB	
	2400 -2500	36	43	-	dB	
	2500 -6000	30	40	-	dB	
Input impedance		50			Ω	single-ended
Output impedance		50			Ω	single-ended
Device size		1.1typ. x 0.9typ. x 0.5max			mm	
Temperature range		-30 to +85			°C	

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



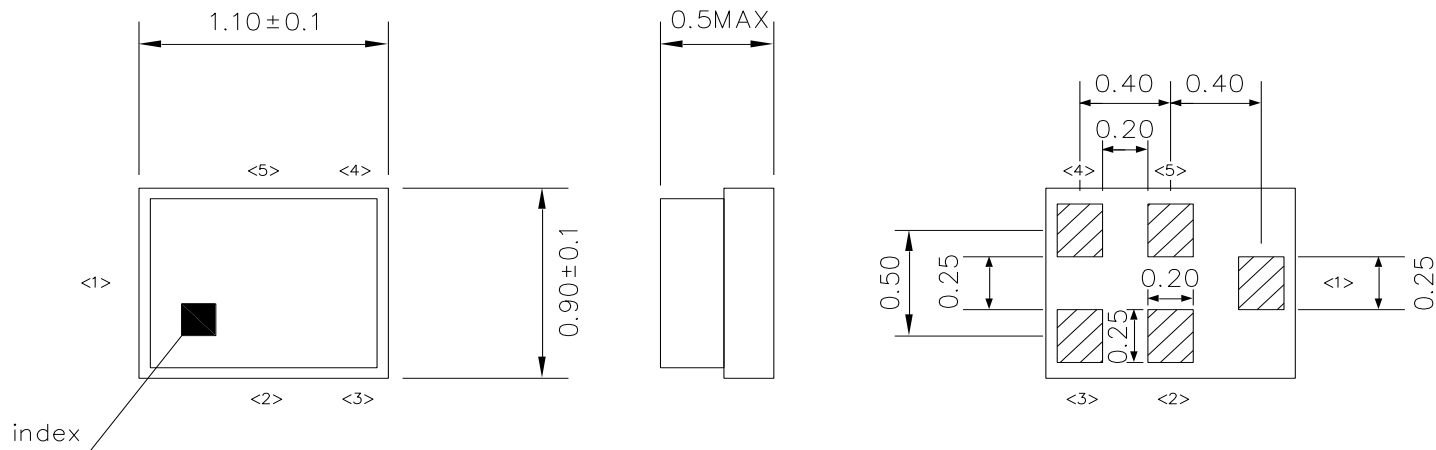
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Dimensions

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

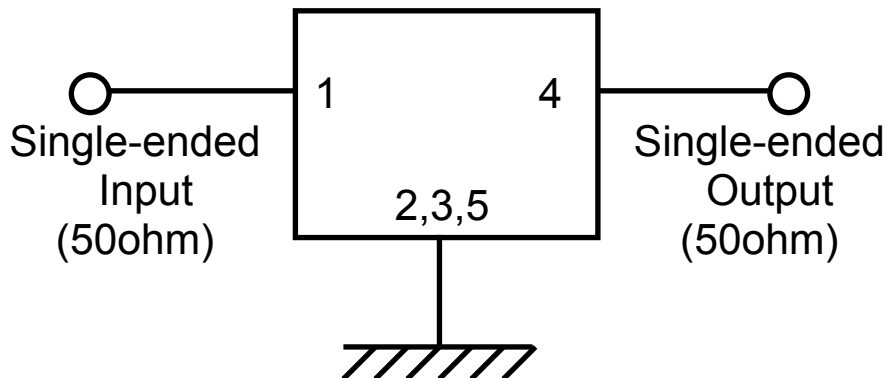


Unit : mm

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



1~5 : Pin No.



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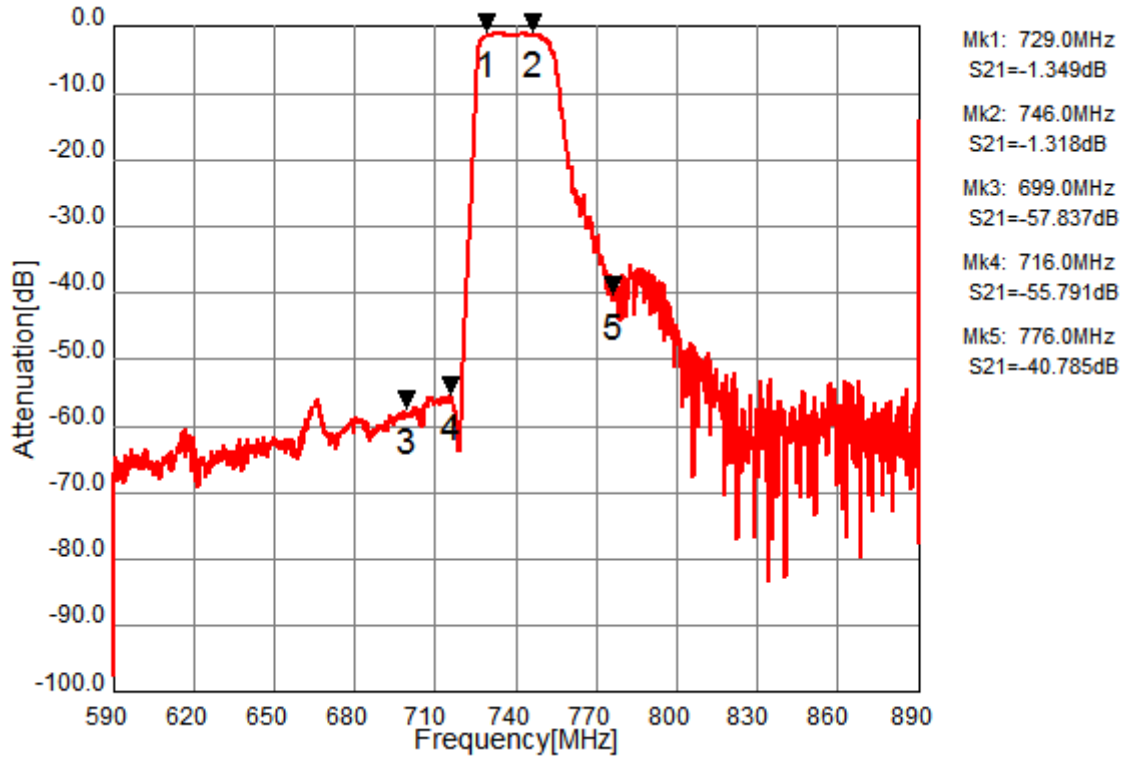


Fig.1 Pass-band Characteristics

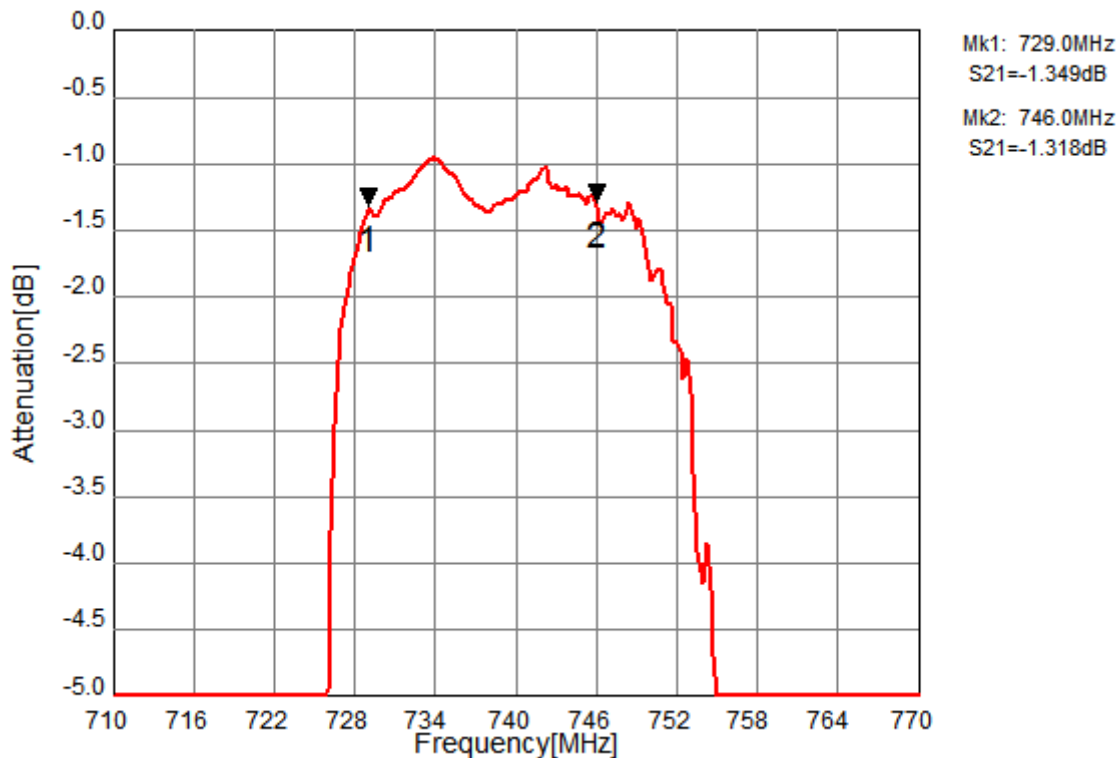


Fig.2 In-band Characteristics



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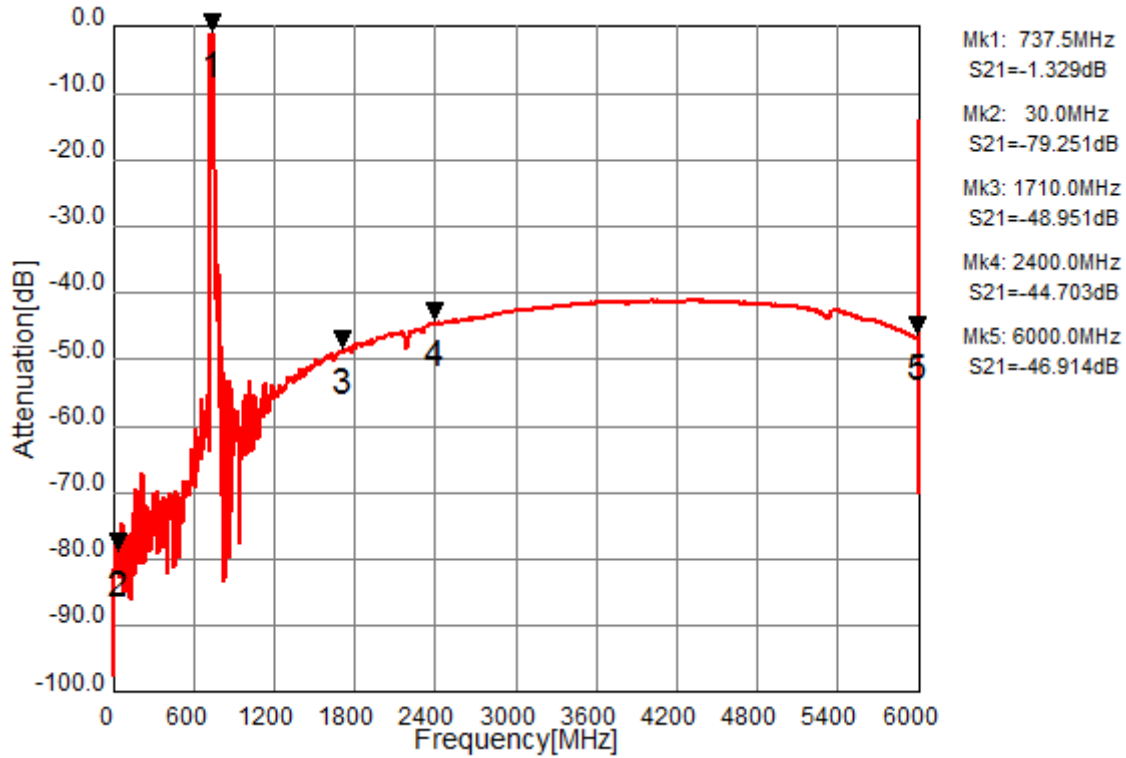


Fig.3 Wide-band Characteristics

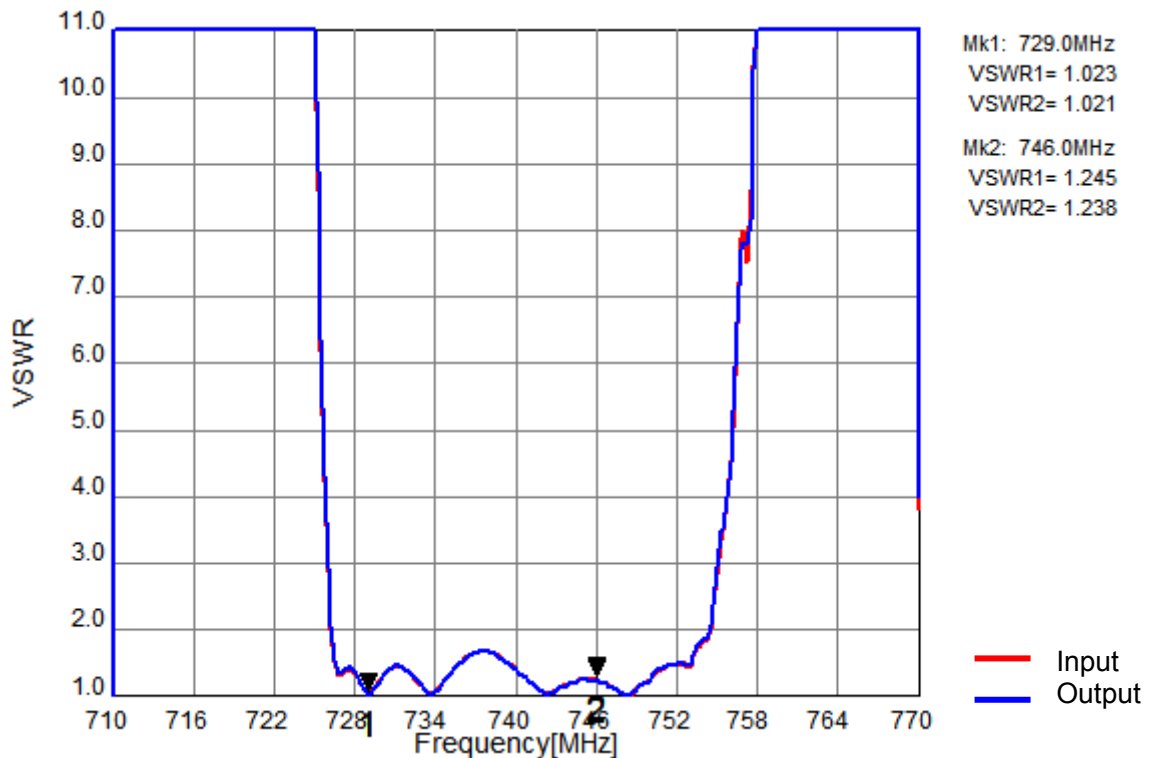


Fig.4 VSWR



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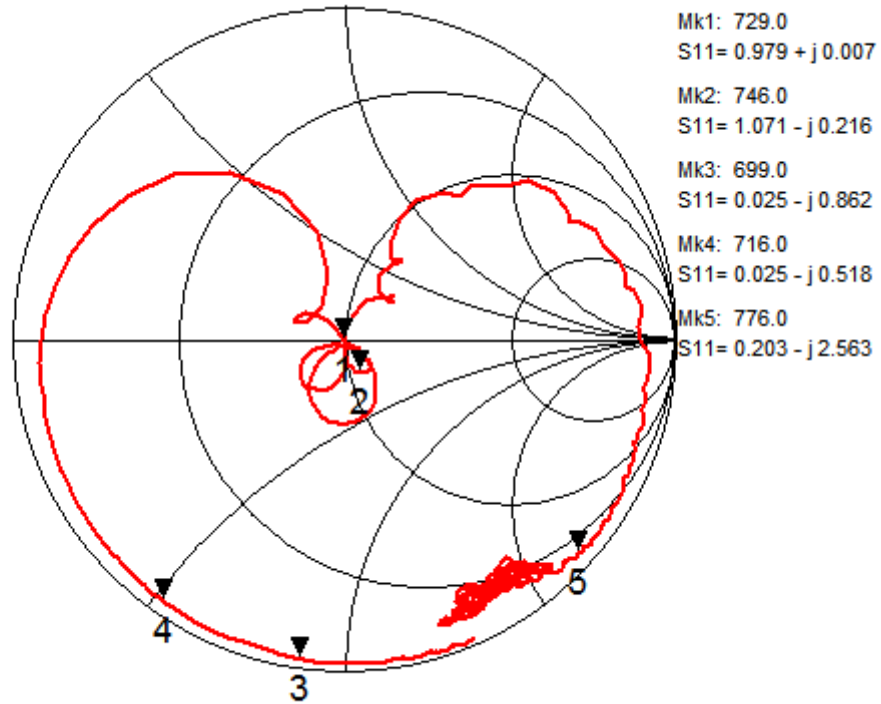


Fig.5 Input Impedance

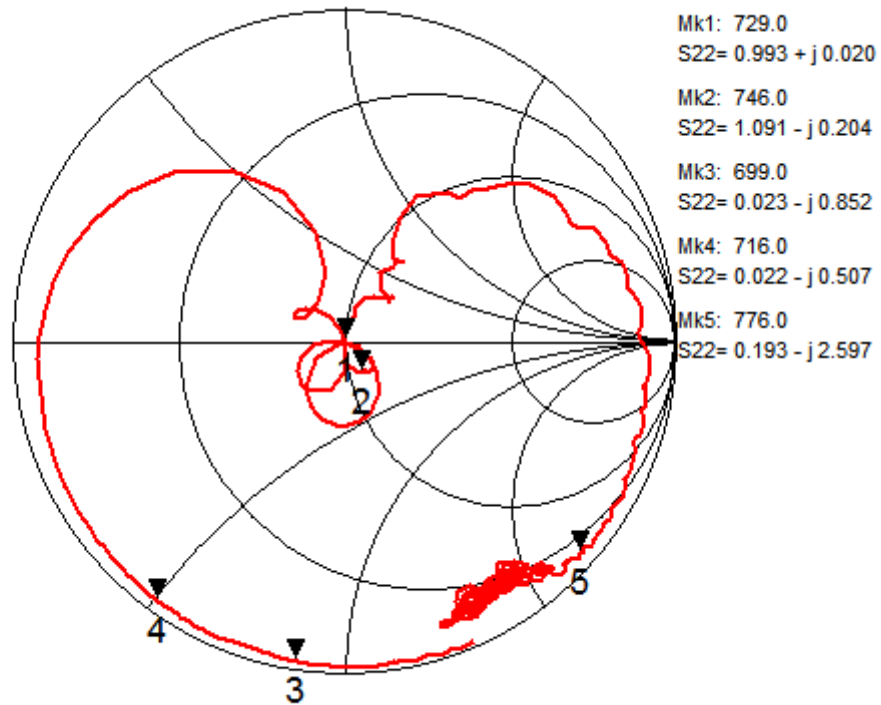


Fig.6 Output Impedance



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Ordering Code

Ordering Code	Packing	Reel size	Status
F5QA737M5M2QN-J	Tape & Reel	5,000pcs.	MP
F5QA737M5M2QN-JA	Tape & Reel	less than 5,000 pcs.	MP
F5QA737M5M2QN-Y	Tape & Reel	15,000pcs	MP
F5QA737M5M2QN-YA	Tape & Reel	less than 15,000 pcs.	MP
F5QA737M5M2QN-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.