



MSL1

\*Pb Free part

Customer Name	Standard specifications	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 1 & 4 Rx	DATE	Nov 14, 2013
Part Number	F6QA2G140M2AM	Version 4.0cA	Final

Table 1.Electrical specifications

Pass Band (2110 ~ 2170 MHz)						
Item	Condition (MHz)	Specifications			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	2110-2170	-	1.9	2.5	dB(*1)	
	2110-2155					
Ripple	2110-2170	-	0.7	1.5	dB	
	2110-2155					
Absolute attenuation	50-1710	35	43	-	dB	
	1710-1755	40	44	-	dB	
	1920-1980	42	46	-	dB	
	4220-4340	30	40	-	dB	
VSWR(Input)	2110-2170	-	1.8	2.3	-	
	2110-2155					
VSWR(Output)	2110-2170	-	1.8	2.3	-	
	2110-2155					
Power handling		-	-	10	dBm	
Input impedance		50			ohm	
Output impedance		50			ohm	
Operating temperature		-30 to +85			°C	
Device size (L x W x H)		1.1typ.x0.9typ.x0.5max.			mm	SMD

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



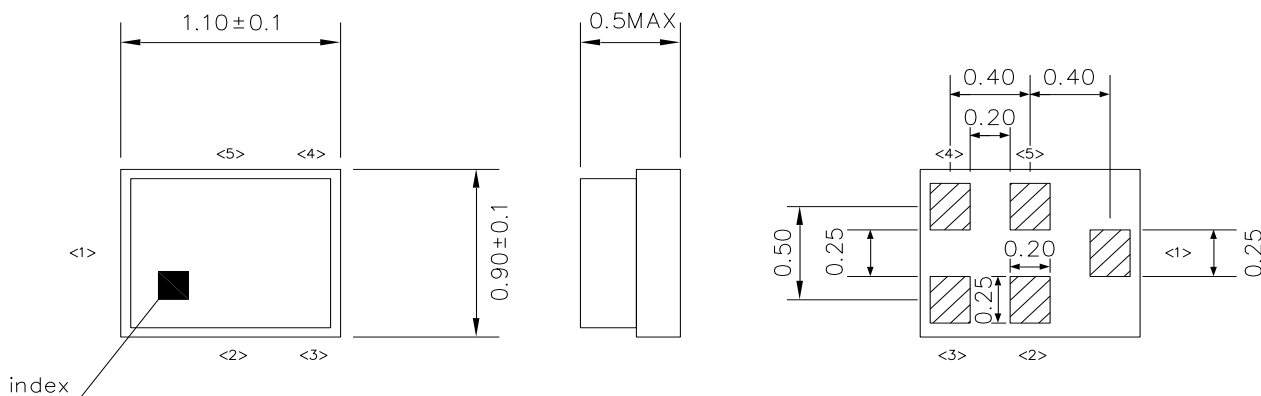
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## Dimensions

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

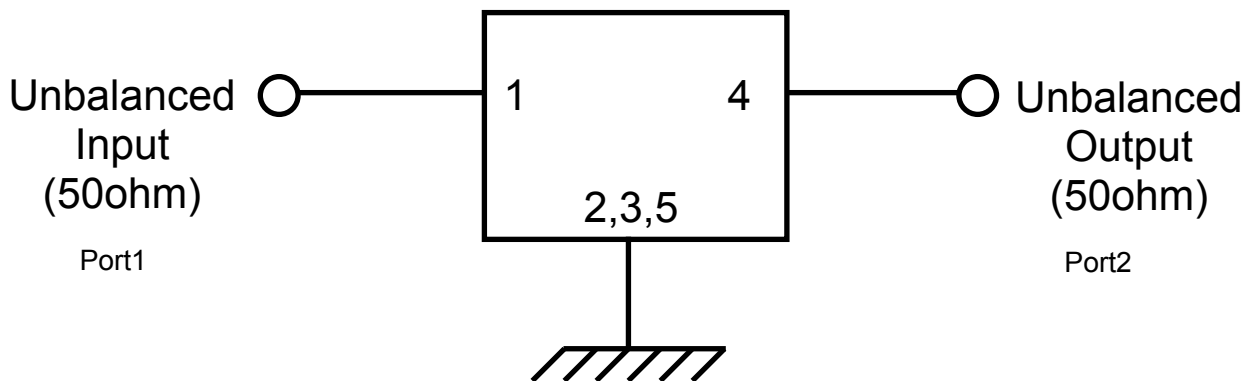


Unit: mm

## 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



1 to 5: Pin No.



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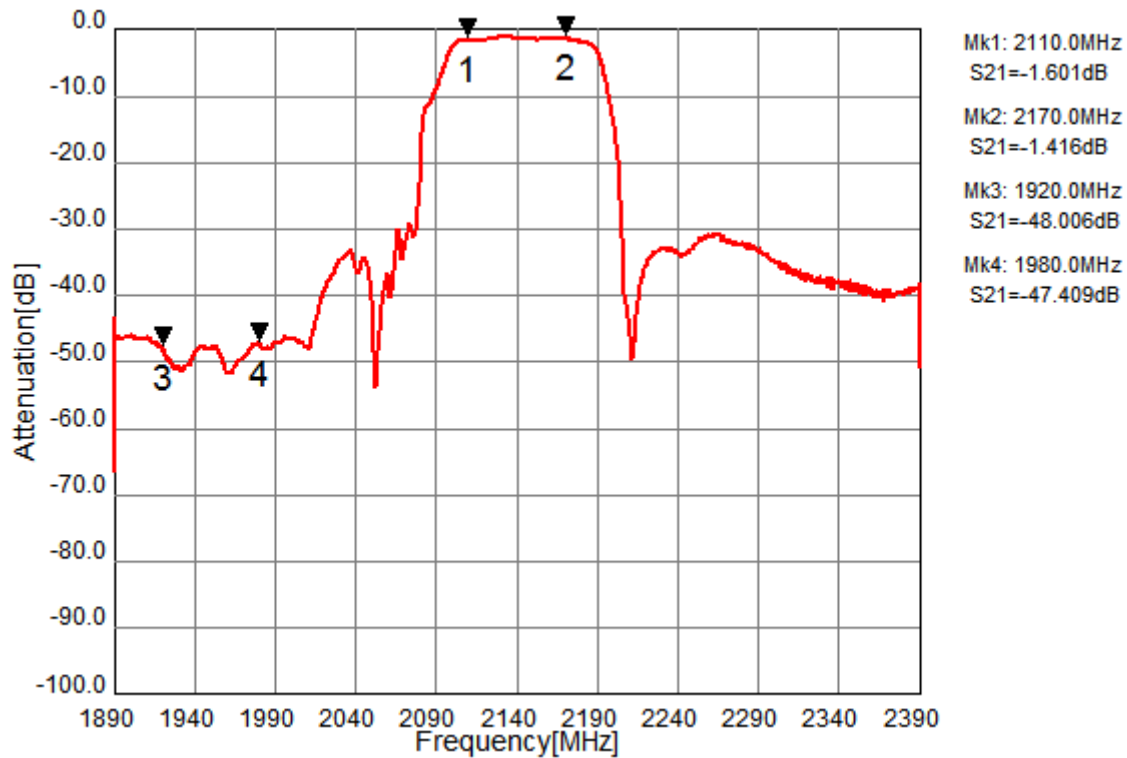


Fig.1 Pass-band Characteristics

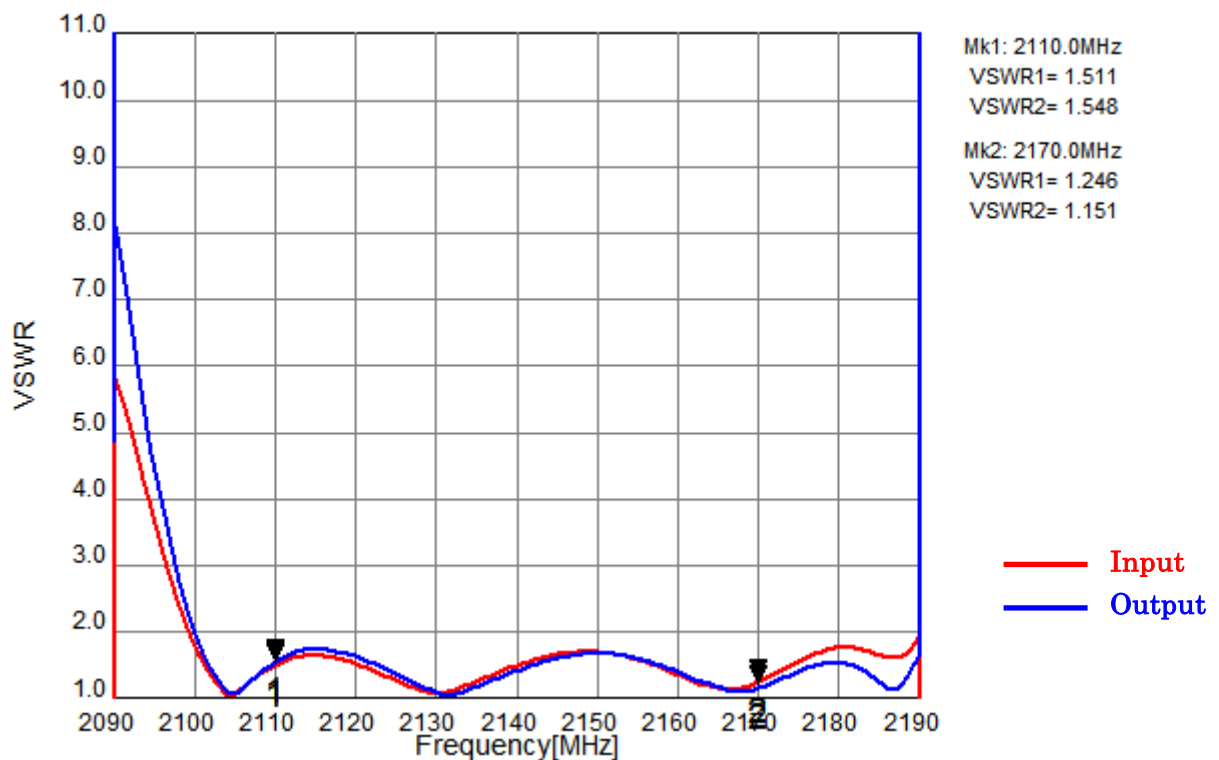


Fig.2 VSWR

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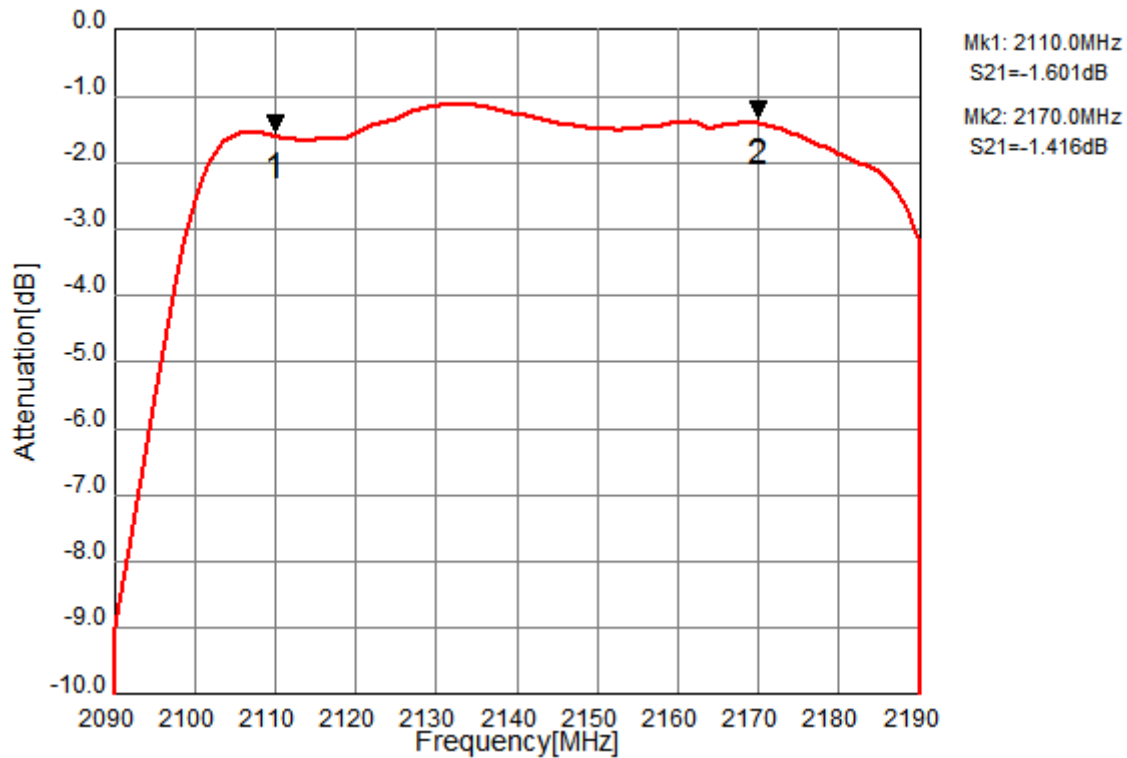


Fig.3 In-band Characteristics

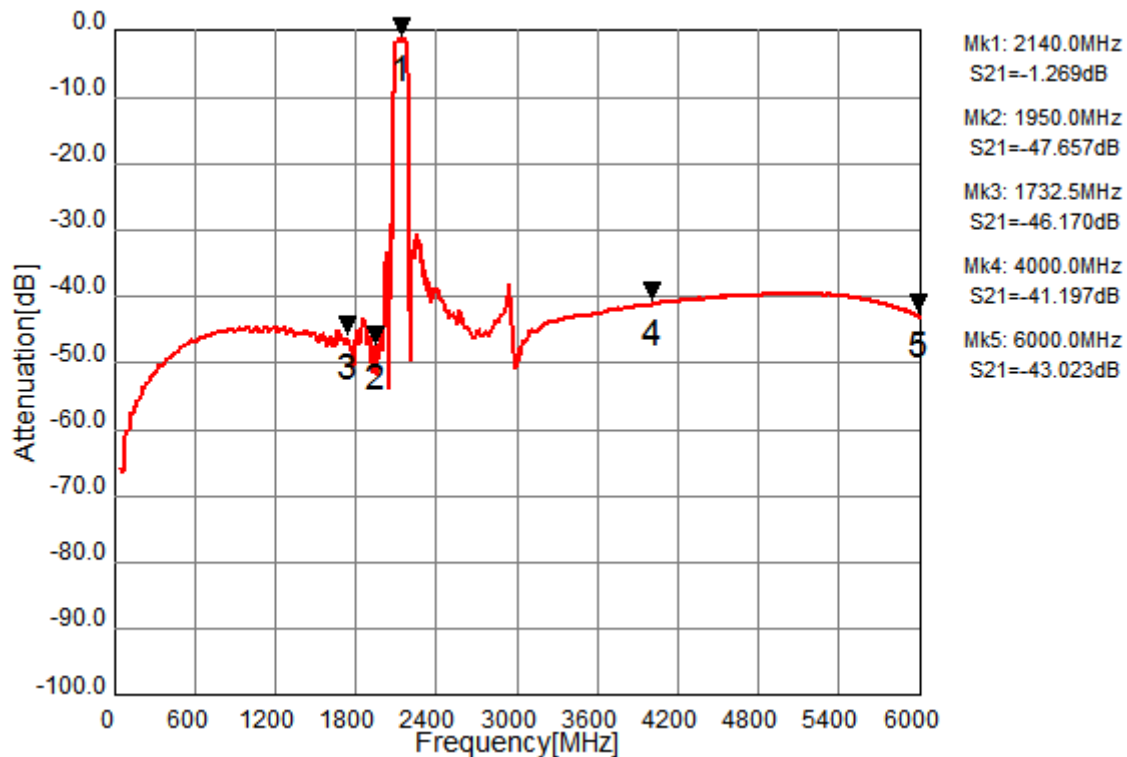
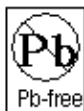


Fig.4 Wide-band Characteristics

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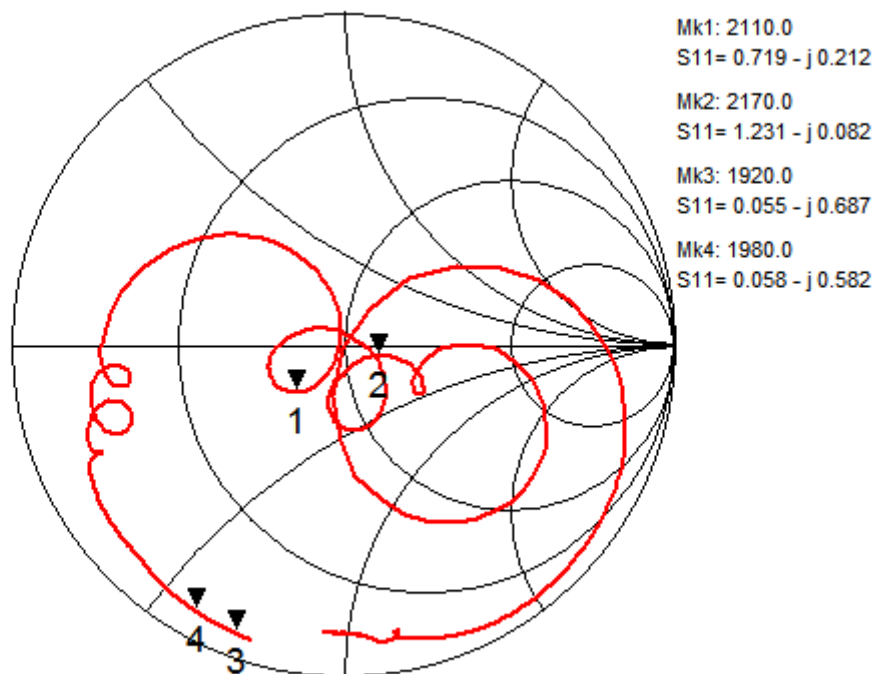


Fig.5 Impedance (Input)

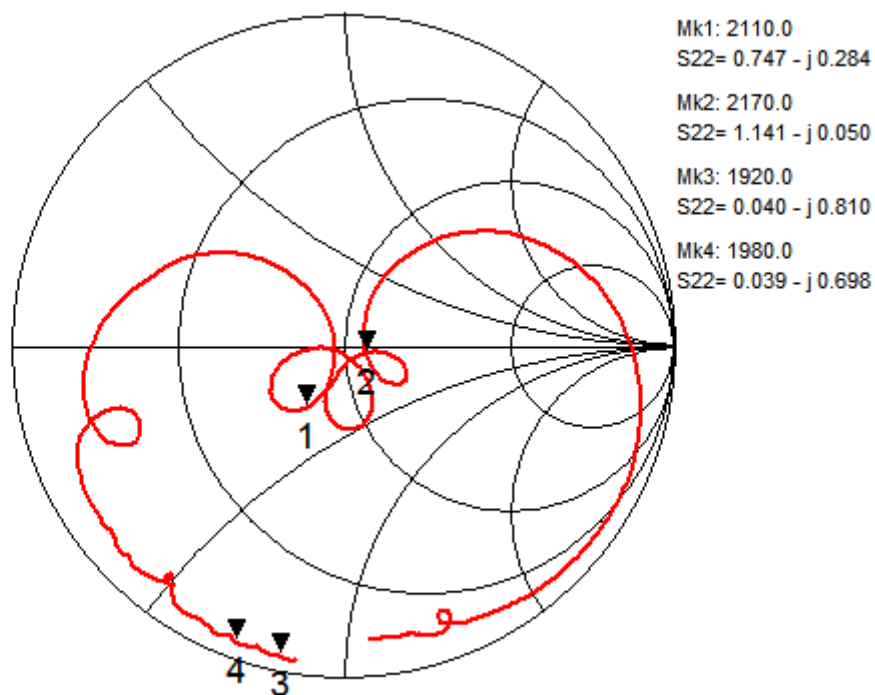


Fig.6 Impedance (Output)

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## **Ordering Code**

Ordering Code	Packing	Reel size	Status
F6QA2G140M2AM-J	Tape & Reel	5,000 pcs.	MP
F6QA2G140M2AM-JA	Tape & Reel	Less than 5,000 pcs.	MP
F6QA2G140M2AM-Y	Tape & Reel	15,000 pcs.	MP
F6QA2G140M2AM-YA	Tape & Reel	Less than 15,000 pcs.	MP
F6QA2G140M2AM-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.