



*Pb Free part

Customer Name	Standard specifications	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS + GLONASS + Galileo + Compass	Date	Dec.05, 2013
Part Number	F6QA1G581M2QZ	Version 2.0bB	Final

Table 1.Electrical specifications

Passband:1559.052 ~ 1605.886 MHz						
Parameter	Frequency (MHz)	Specifications			Units	Remarks
		Min.	Typ.	Max.		
Insertion loss	1574.42 – 1576.42	-	1.1	1.5	dB	(*1)
	1565.42 – 1585.42	-	1.5	2.0	dB	(*1)
	1597.552 – 1605.886	-	1.4	2.0	dB	(*1)
	1559.052 – 1563.144	-	1.7	2.0	dB	(*1)
VSWR(Input)	1574.42 – 1576.42	-	1.3	2.0	-	
	1565.42 – 1585.42	-	1.9	2.3	-	
	1597.552 – 1605.886	-	1.5	2.3	-	
	1559.052 – 1563.144	-	1.8	2.3	-	
VSWR(Output)	1574.42 – 1576.42	-	1.3	2.0	-	
	1565.42 – 1585.42	-	1.9	2.3	-	
	1597.552 – 1605.886	-	1.5	2.3	-	
	1559.052 – 1563.144	-	1.8	2.3	-	
Absolute Attenuation	50 – 925	32	36	-	dB	
	925 – 960	32	36	-	dB	
	1427 – 1463	33	39	-	dB	
	1710 – 1785	32	39	-	dB	
	1850 – 1910	32	38	-	dB	
	1920 – 1980	32	37	-	dB	
	2401 – 2483	32	39	-	dB	
2500 – 2570	31	38	-	dB		
Input impedance		50			ohm	
Output impedance		50			ohm	
Device Size		1.1typ. x 0.9typ. x 0.5max.			mm	
Operating temperature		-30 to +85			°C	

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

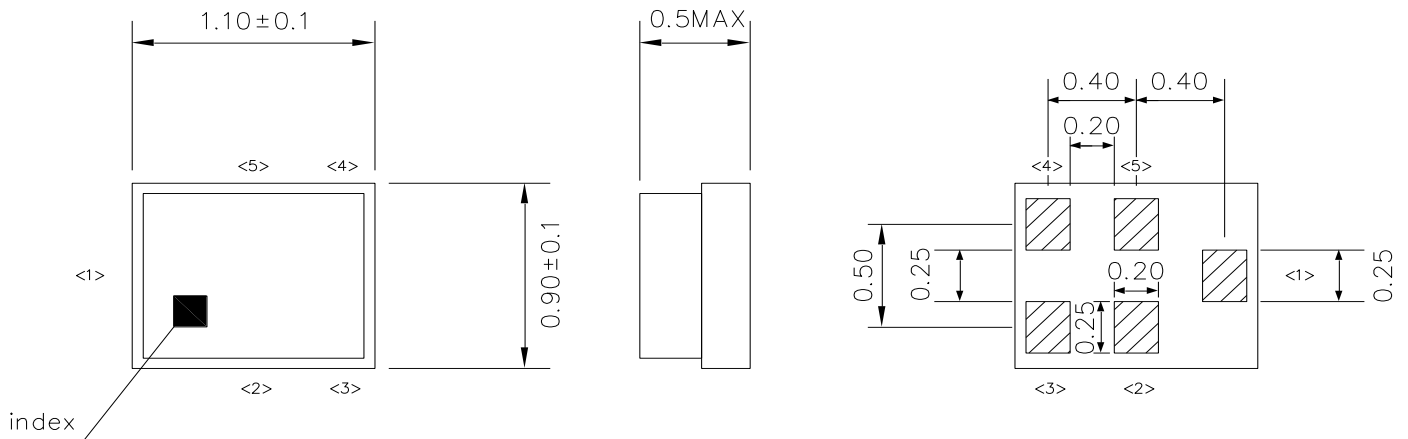


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Dimensions

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

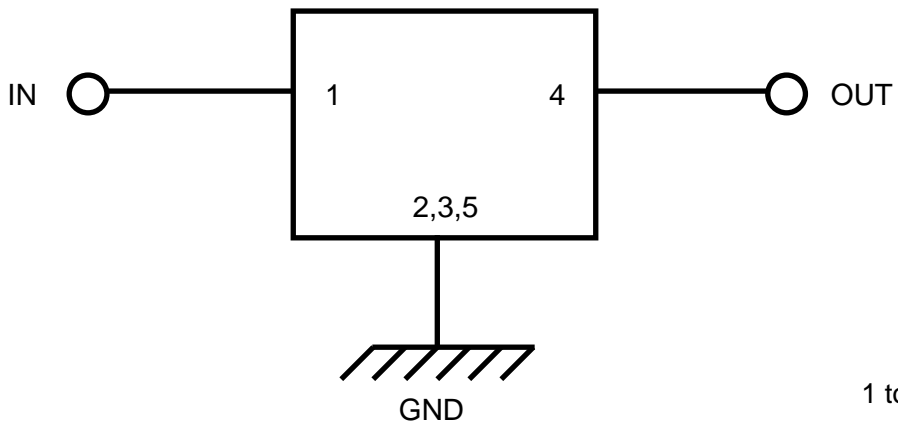


Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	IN	Unbalanced Input pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced Output pin
5	GND	Ground

Evaluation Circuit



1 to 5: Pin No.



RoHS MSL1

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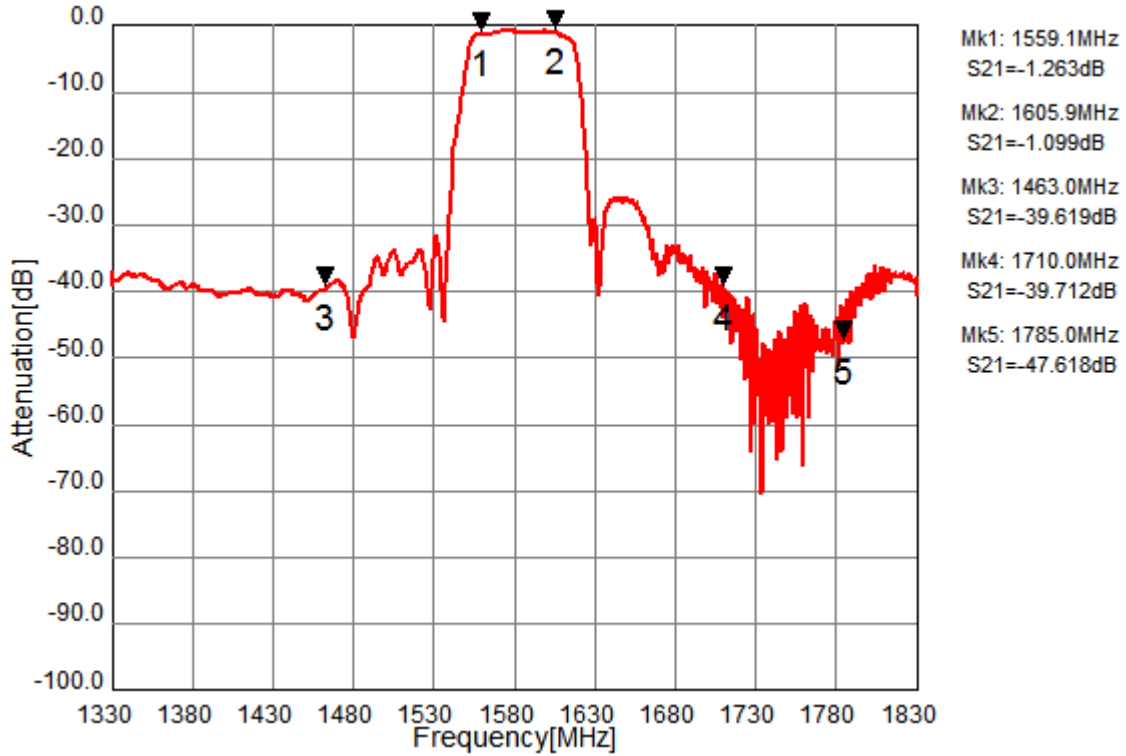


Fig.1 Pass-band Characteristics

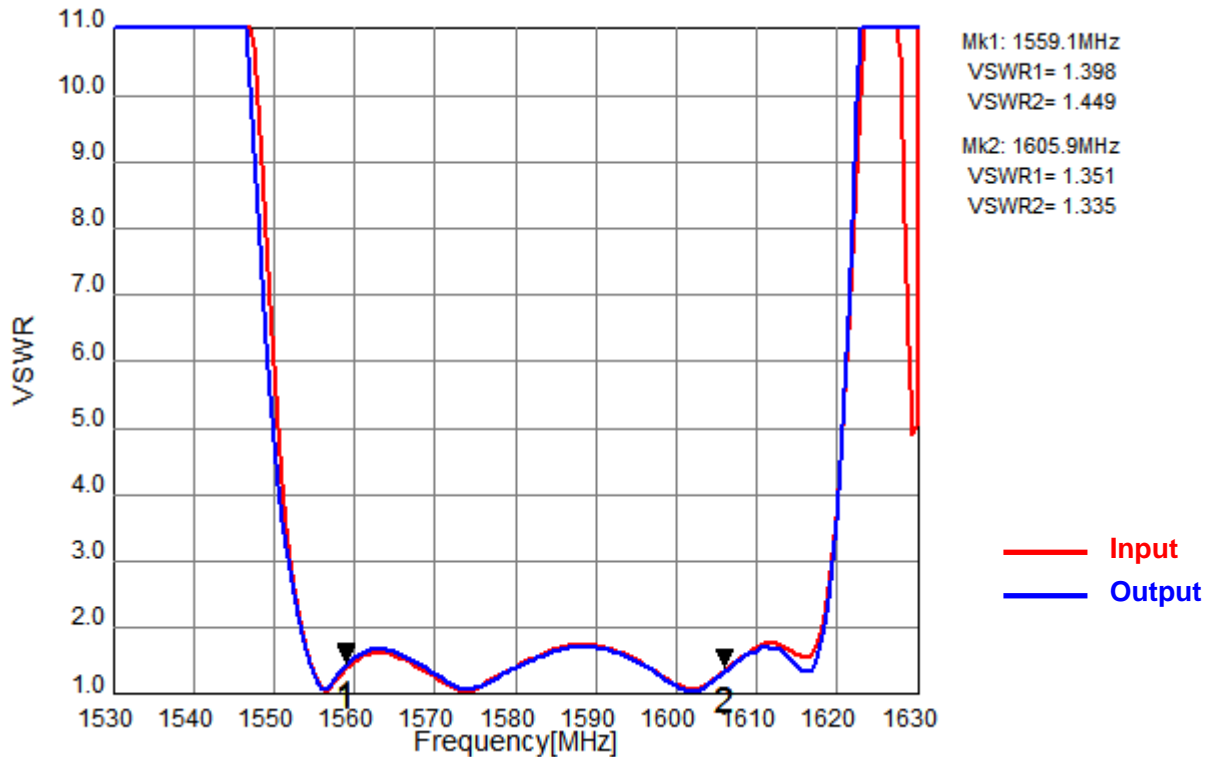


Fig.2 VSWR

TAIYO YUDEN



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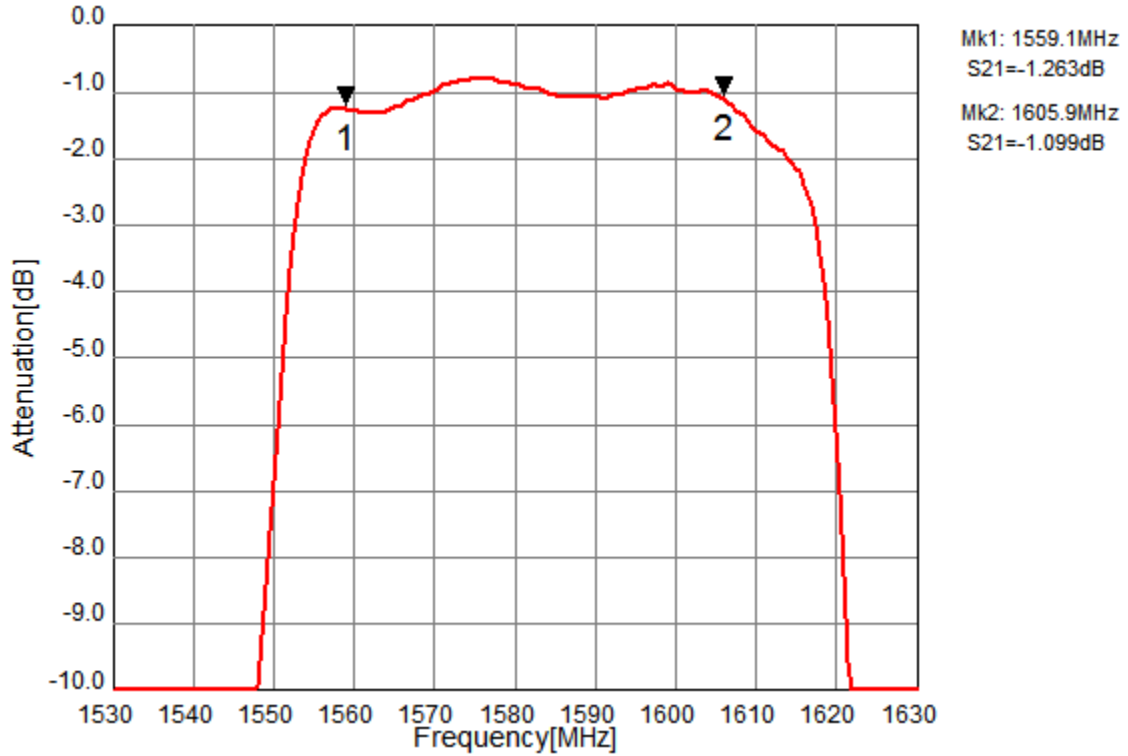


Fig.3 In-band Characteristics

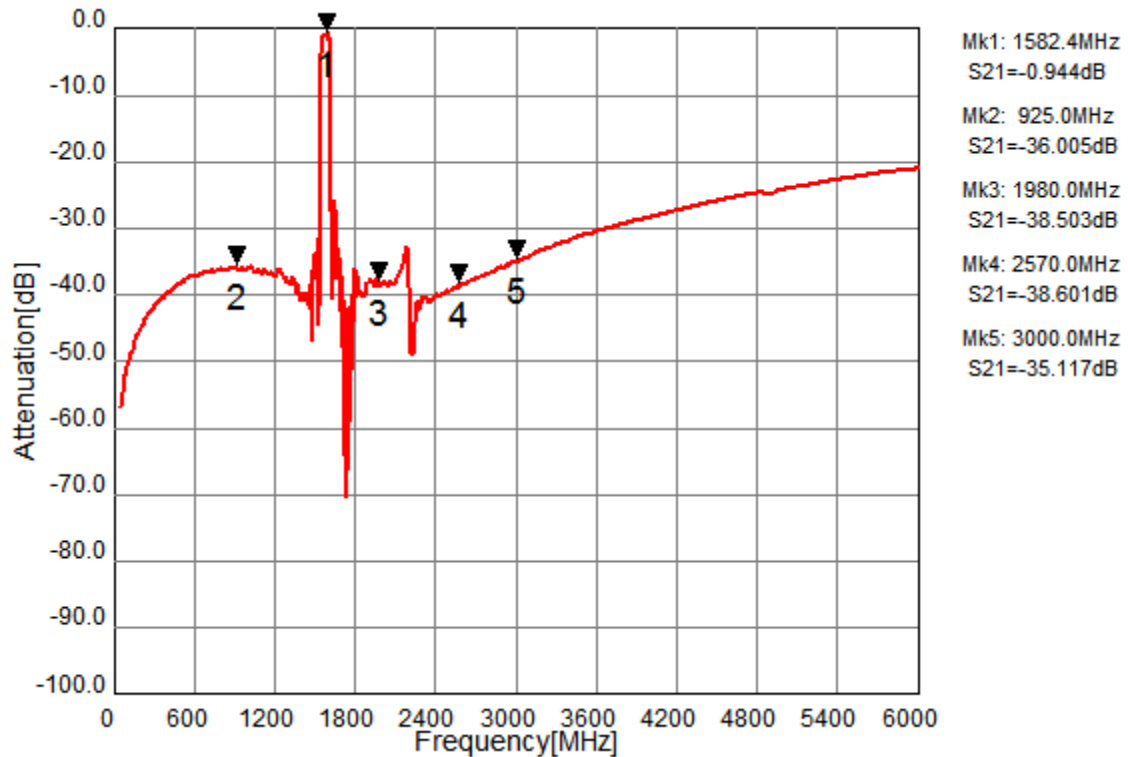


Fig.4 Wide-band Characteristics



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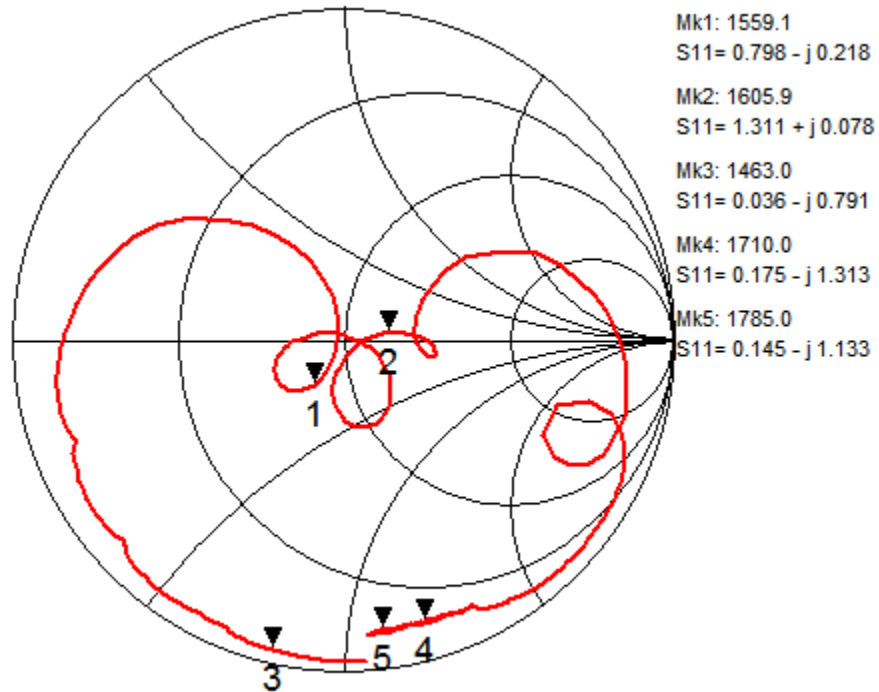


Fig.5 Input Impedance

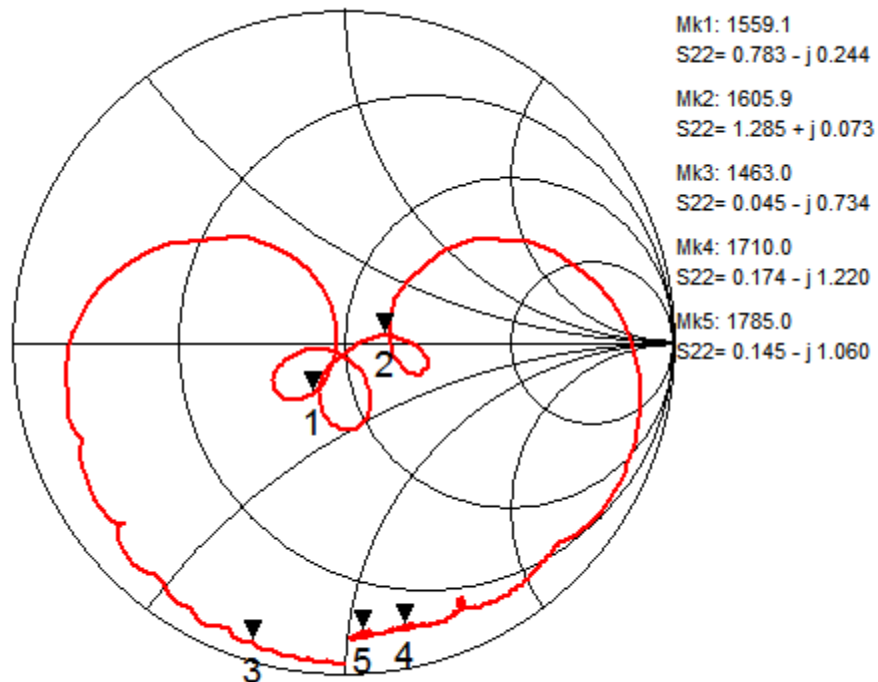


Fig.6 Output Impedance



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6QA1G581M2QZ-J	Tape & Reel	5,000pcs.	MP
F6QA1G581M2QZ-JA	Tape & Reel	Less than 5,000 pcs.	MP
F6QA1G581M2QZ-Y	Tape & Reel	15,000pcs	MP
F6QA1G581M2QZ-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.