Pb-free RoHS MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	**GPS+GLONASS** (Unbalance 50/50 ohm)	Date	Sep. 5, 2012
Part Number	F6QA1G585M2AT	Version 1.0a	**FINAL**

Table 1.Electrical specifications

Passband:1565.42 ~ 1605.886 MHz						
Parameter	Frequency	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Operating temperature		-30	-	+85	°C	
Insertion loss	1574.42-1576.42 MHz	-	1.1	1.4	dB	(*1)
Insertion loss	1565.42-1585.42 MHz		1.4	1.7	dB	(*1)
Insertion loss	1597.5515-1605.886 MHz	-	1.1	1.7	dB	(*1)
VSWR(input/output)	1574.42-1576.42 MHz	-	1.2	2.0	-	
	1565.42-1585.42 MHz		1.5	2.0	-	
	1597.5515-1605.886 MHz	-	1.5	2.0	-	
Absolute Attenuation	10 – 925 MHz	32	35	-	dB	
	925 – 960 MHz	32	35	-	dB	
	1427 – 1463 MHz	32	37	-	dB	
	1710 – 1785 MHz	32	39	-	dB	
	1850 – 1910 MHz	31	37	-	dB	
	1920 – 1980 MHz	31	36	-	dB	
	2401 – 2483 MHz	32	37	-	dB	
	2500 – 2570 MHz	32	36	-	dB	
Input impedance		50//36nH			ohm	
Output impedance		50			ohm	
Device Size		1.1typ. x 0.9typ. x 0.5max.			mm	

(*1) Specification of insertion loss includes loss that comes from the test board (0.1dB).

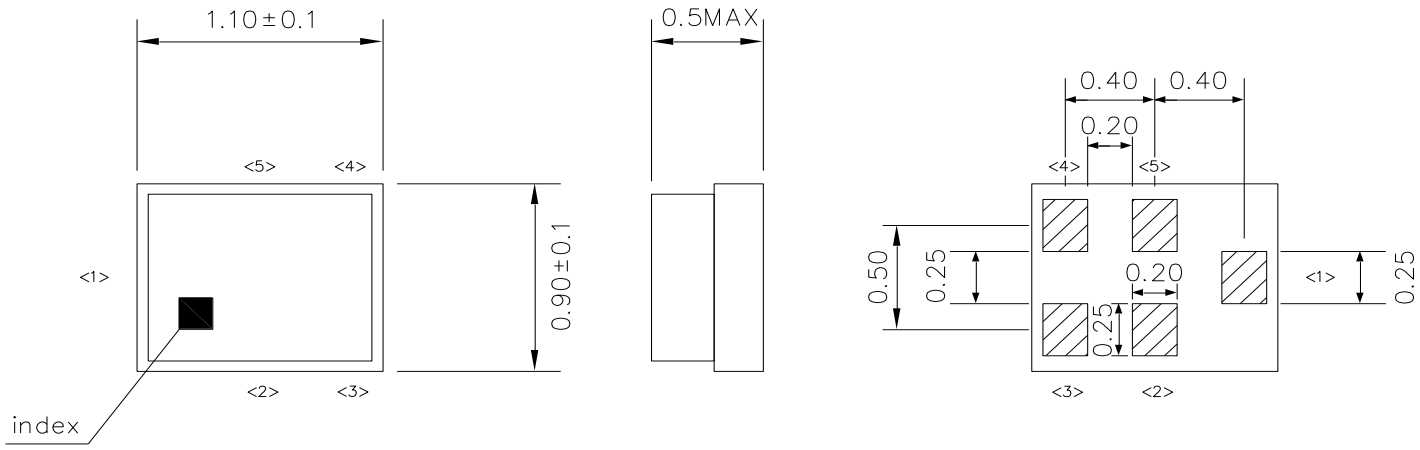
MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	**GPS+GLONASS** (Unbalance 50/50 ohm)	Date	Sep. 5, 2012
Part Number	F6QA1G585M2AT	Version 1.0a	**FINAL**

Dimensions

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

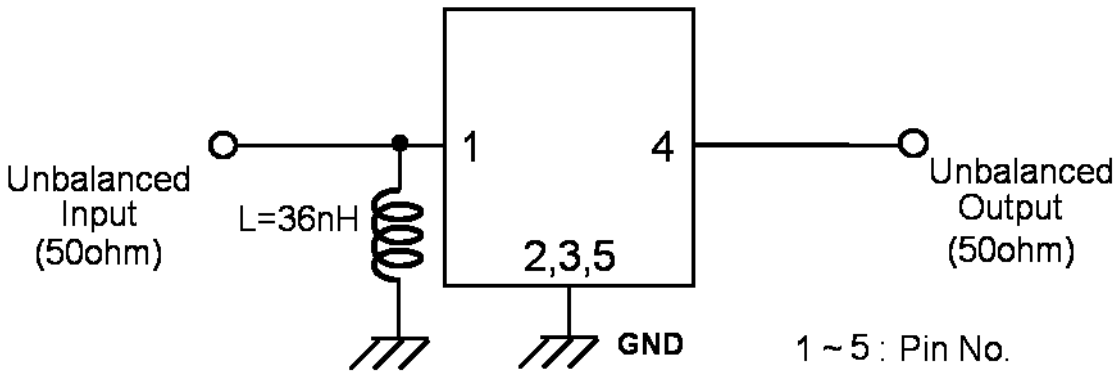


Unit: mm

Pin Configuration

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

Evaluation Circuit



Pb-free

RoHS MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	**GPS+GLONASS** (Unbalance 50/50 ohm)	Date	Sep. 5, 2012
Part Number	F6QA1G585M2AT	Version 1.0a	**FINAL**

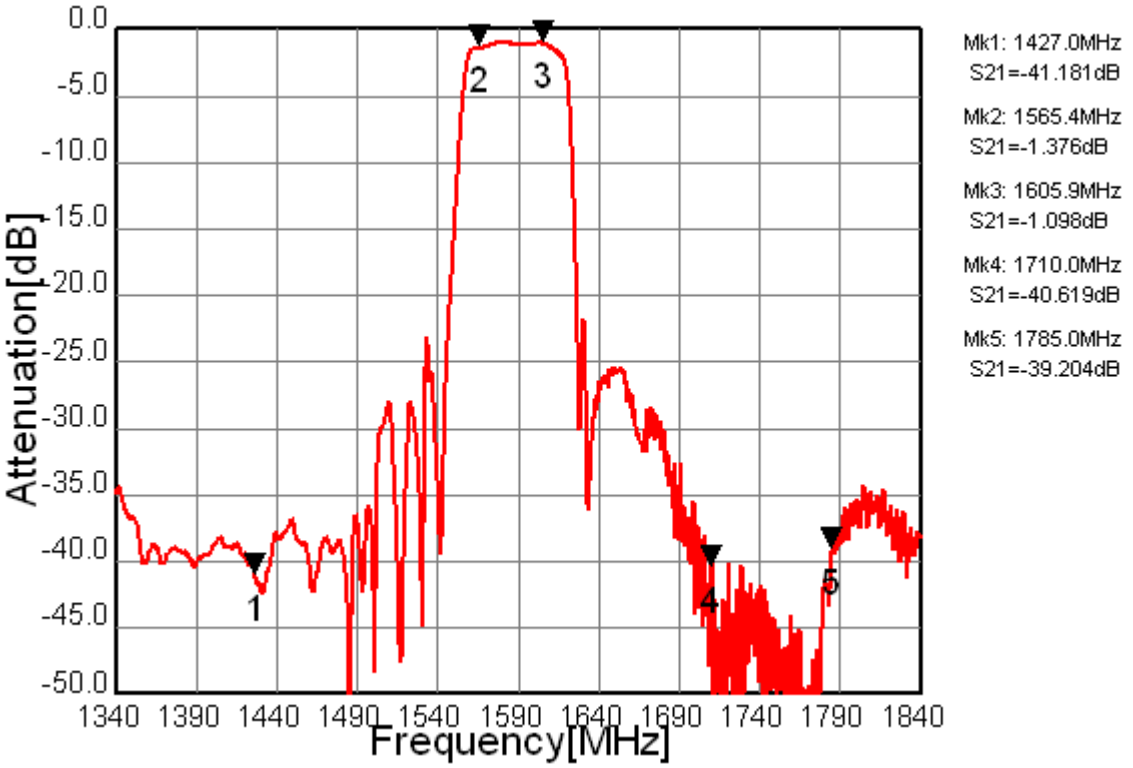


Fig.1 Pass-band Characteristics

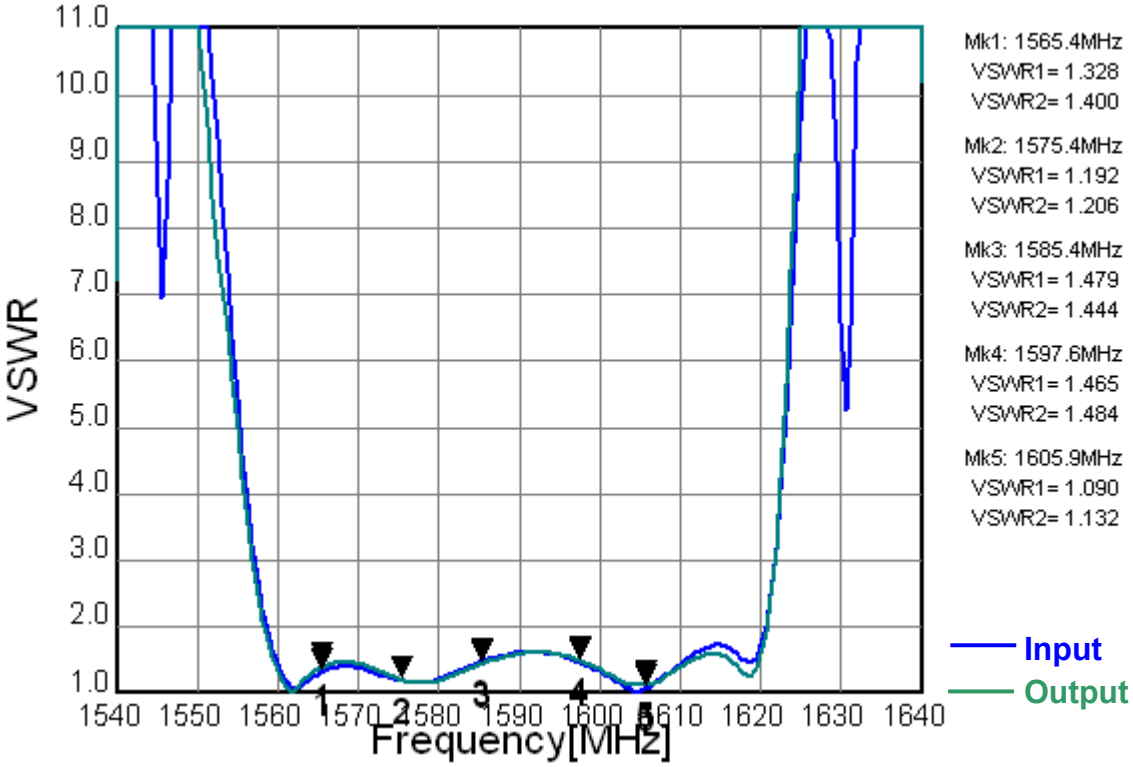


Fig.2VSWR

Pb-free

RoHS MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	**GPS+GLONASS** (Unbalance 50/50 ohm)	Date	Sep. 5, 2012
Part Number	F6QA1G585M2AT	Version 1.0a	**FINAL**

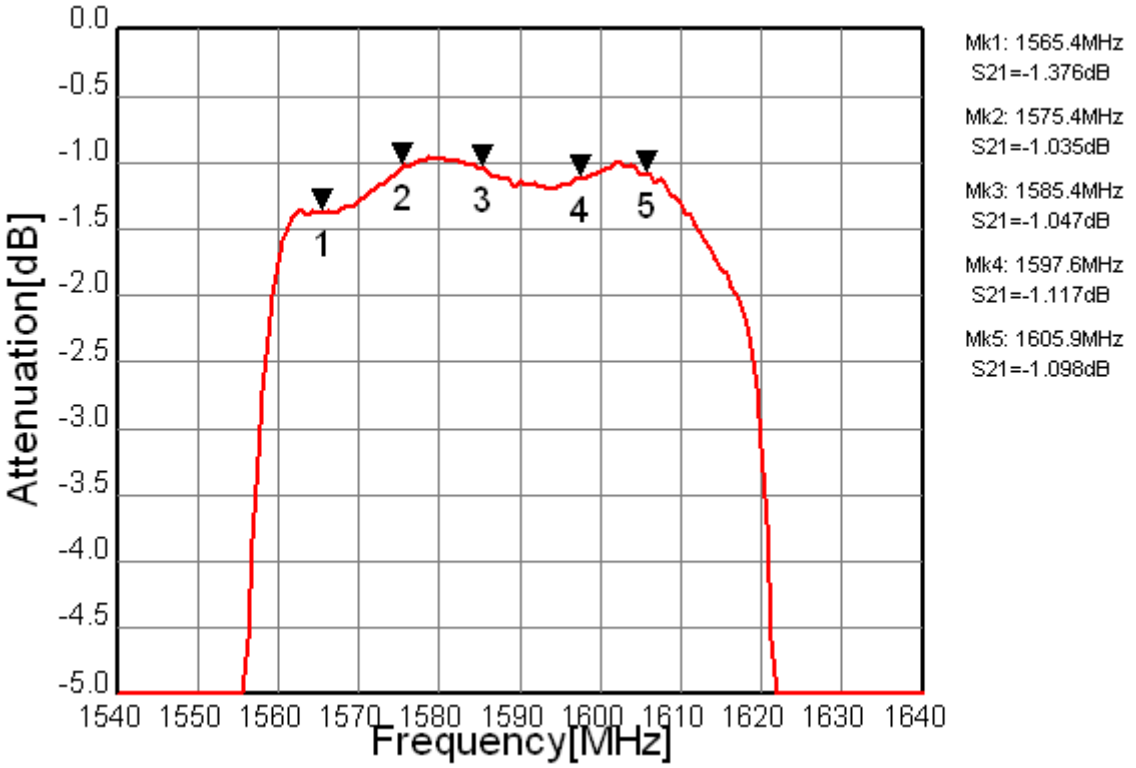


Fig.3 In-band Characteristics

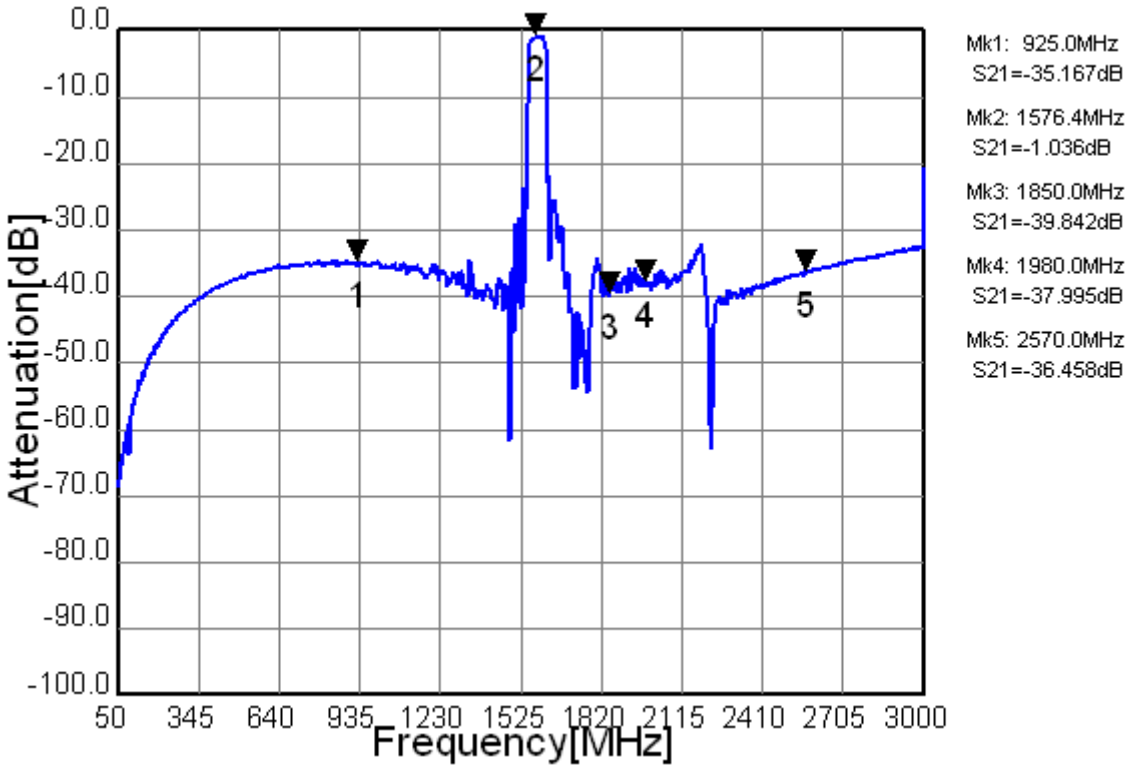


Fig.4 Wide-band Characteristics

Pb-free RoHS MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	**GPS+GLONASS** (Unbalance 50/50 ohm)	Date	Sep. 5, 2012
Part Number	F6QA1G585M2AT	Version 1.0a	**FINAL**

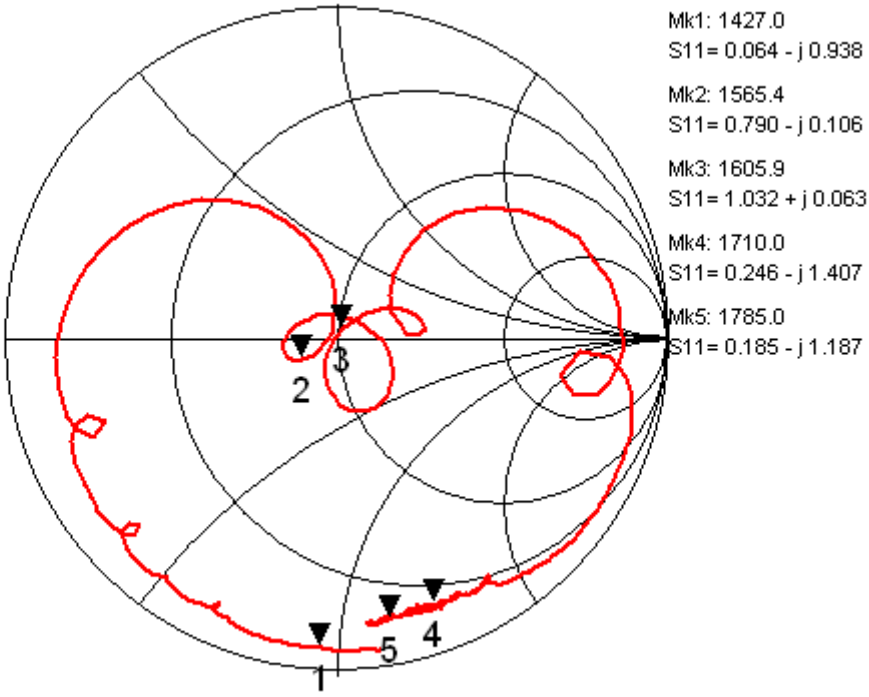


Fig.5 Input Impedance

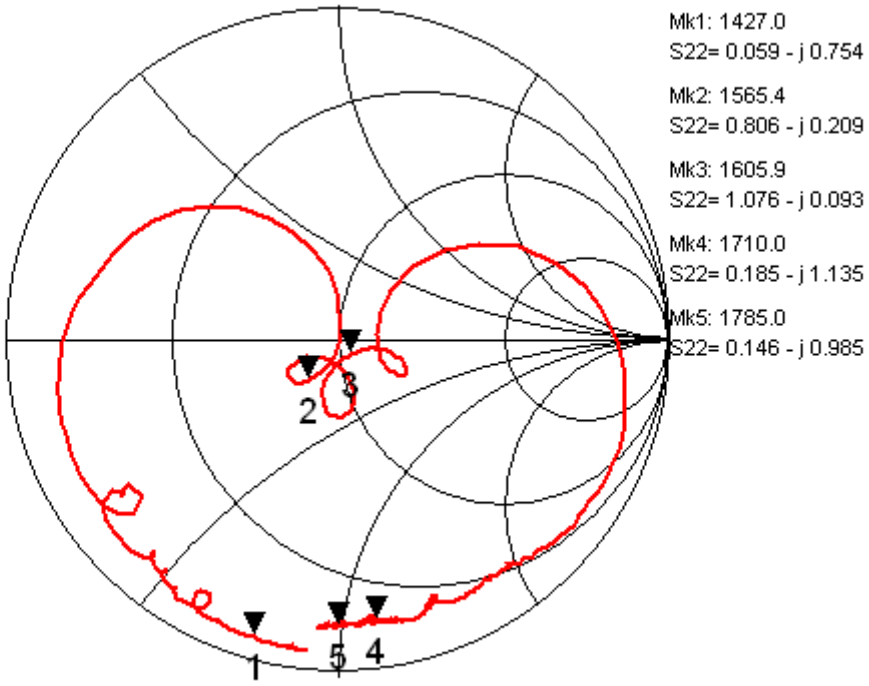


Fig.6 Output Impedance

MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	**GPS+GLONASS** (Unbalance 50/50 ohm)	Date	Sep. 5, 2012
Part Number	F6QA1G585M2AT	Version 1.0a	**FINAL**

Ordering Code

Ordering Code	Packing	Reel size	Status
F6QA1G585M2AT-J	Tape & Reel	5,000pcs.	MP
F6QA1G585M2AT-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QA1G585M2AT-Y	Tape & Reel	15,000pcs	MP
F6QA1G585M2AT-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QA1G585M2AT-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.