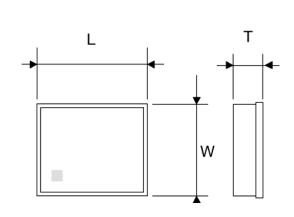
Spec Sheet

SAW Filter

F6QB1G585P2BQ



Features

- Item Summary
- GPS(GNSS), 403
- Lifecycle Stage
- Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 5000, 15000pcs

Products characteristics table

Temperature Range	-30 to +85℃
Use	GPS
Insertion Loss	1.5/1.7dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

External Dimensions

L	1.1mm +0.1:-0.1
W	0.9mm +0.1:-0.1
т	0.5mm max

The data is reference only. Electrical characteristics vary depending on environment or measurement condition. TAIYO YUDEN reserves the right to make change to the Date at any time without notice. Before making final selection, please check product specification.





Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	GPS+GLONASS (50/100 ohm)	DATE	Feb. 14, 2013
Part Number	F6QB1G585P2BQ	Version 1.0a	Final

Table 1 Electrical Specification						
	Passband: 1565.4	2 - 1605	5.886 MHz	2		
Parameter	Condition (MHz)	Specifications				Remarks
		Min.	Тур.	Max.	Unit	
	1574.42 - 1576.42	-	1.5	1.9	dB(*1)	
Insertion Loss	1565.42 - 1585.42	-	1.6	2.0	dB(*1)	
	1597.5515 - 1605.8860	-	1.7	2.1	dB(*1)	
	1574.42 - 1576.42	-	1.4	2.0	-	
VSWR	1565.42 - 1585.42	-	1.5	2.0	-	
(Input/output)	1597.5515 - 1605.8860	-	1.6	2.0	-	
Absolute attenuation	10 - 794	45	50	-	dB	
	794 - 925	40	47	-	dB	
	925 - 960	40	46	-	dB	
	1427 - 1463	30	34	-	dB	
	1710 - 1785	35	42	-	dB	
	1850 - 1910	35	42	-	dB	
	1920 - 1980	34	39	-	dB	
	2401 - 2483	30	35	-	dB	
	2500 - 2570	30	34	-	dB	
	1574.42 - 1576.42	-1.5	+0.5/+0.7	+1.5	dB	
Amplitude balance (S21/S31)	1565.42 - 1585.42	-5	-0.2/+2.7	+5	dB	
	1597.5515 - 1605.8860	-1.8	-1/-0.6	+1.8	dB	
	1574.42 - 1576.42	-10	+5/+7	+10	deg	
Phase balance $((\Phi S21-\Phi S31)+180)$	1565.42 - 1585.42	-10	-2/+7	+10	deg	
	1597.5515 - 1605.8860	-15	-10/-8	+15	deg	
Operating ter	nperature range		-30 ~ +85		°C	
Input impedar	nce (Unbalanced)	50		ohm		
Output imped	ance (Balanced)		100//18nH		ohm	
Dev	ice size	1.1typ.	x 0.9typ. x ().5max.	mm	

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

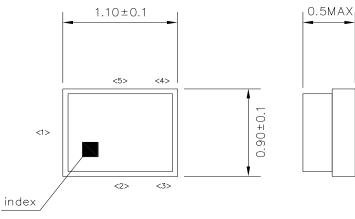


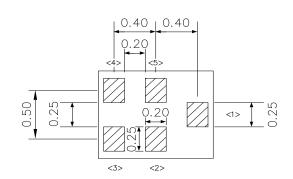


Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	GPS+GLONASS (50/100 ohm)	DATE	Feb. 14, 2013
Part Number	F6QB1G585P2BQ	Version 1.0a	Final

Dimensions

Device size: 1.1mmtyp. x 0.9mmtyp. x 0.5mmmax.



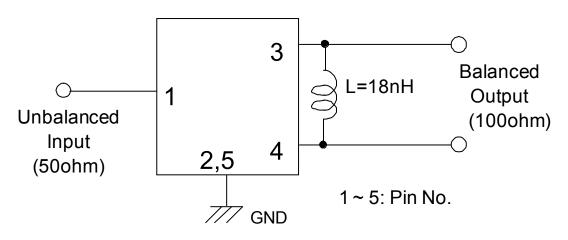


Unit: mm

Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

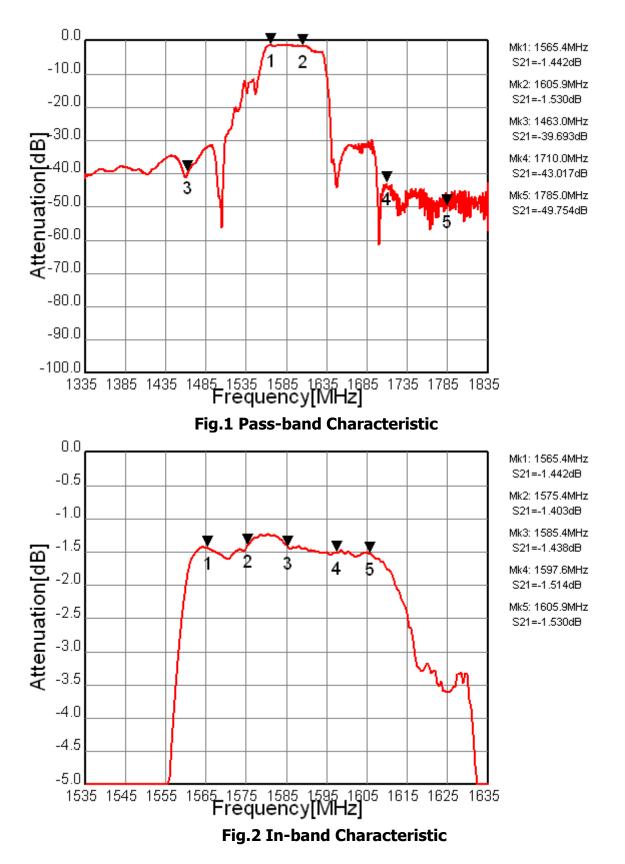
Evaluation Circuit



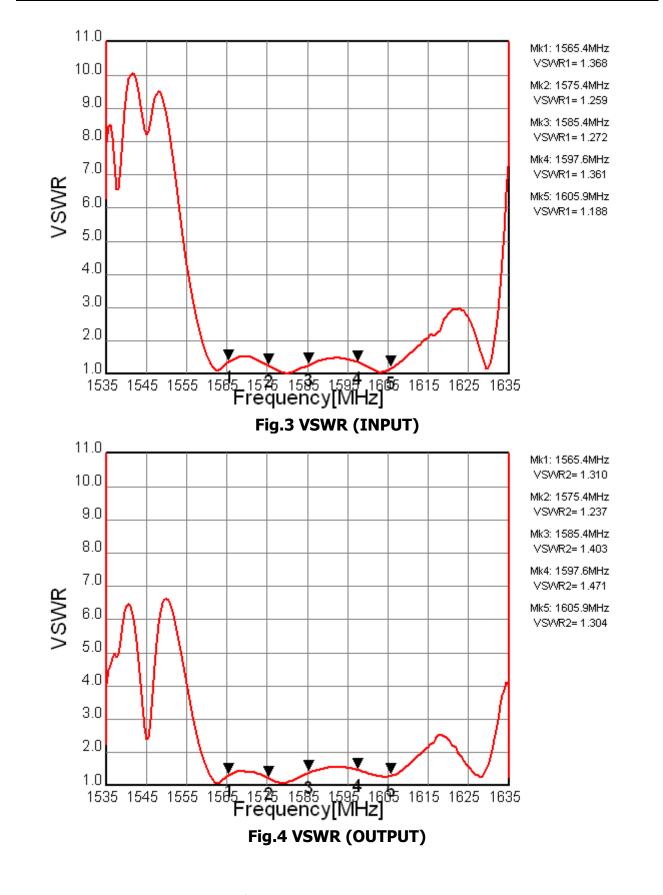
TAIYO YUDEN

Pb-free *Pb Free part	RoHS	MSL1	
			_

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Lt	
System	GPS+GLONASS (50/100 ohm)	DATE	Feb. 14, 2013
Part Number	F6QB1G585P2BQ	Version 1.0a	Final



TAIYO YUDEN



 *Pb Free part

 Customer Name
 Standard Specification
 TAIYO YUDEN Mobile Technology Co.,Ltd.

 System
 GPS+GLONASS (50/100 ohm)
 DATE
 Feb. 14, 2013

 Part Number
 F6QB1G585P2BQ
 Version 1.0a
 Final

RoHS

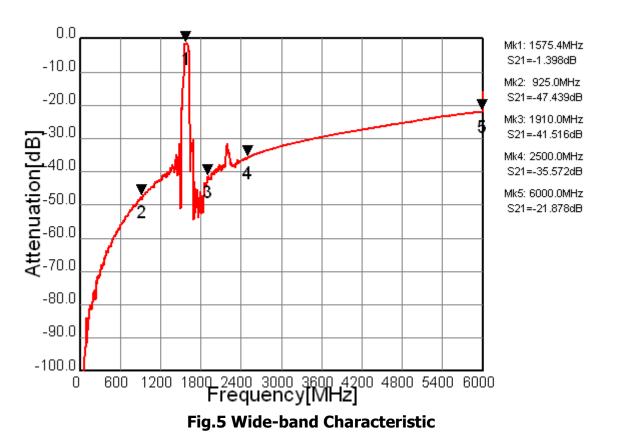
Pb-tree

MSL1





Customer Name	Standard Specification	TAIYO YUDEN Mobile	Technology Co.,Ltd.
System	GPS+GLONASS (50/100 ohm)	DATE	Feb. 14, 2013
Part Number	F6QB1G585P2BQ	Version 1.0a	Final







Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	GPS+GLONASS (50/100 ohm)	DATE	Feb. 14, 2013
Part Number	F6QB1G585P2BQ	Version 1.0a	Final

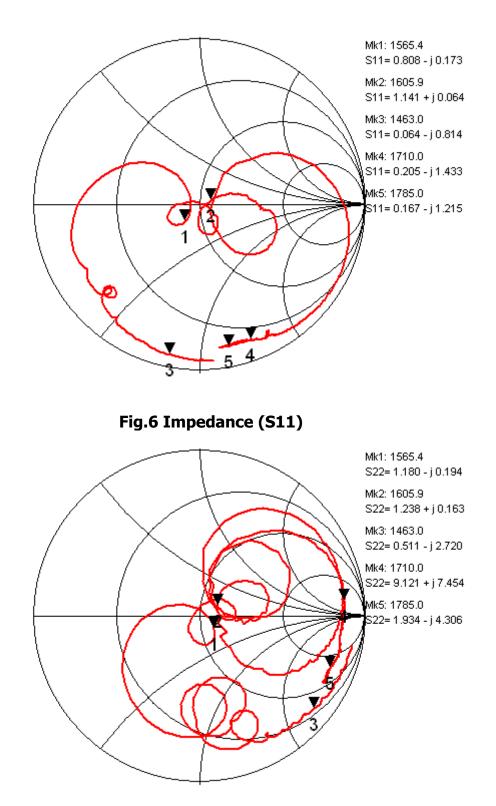
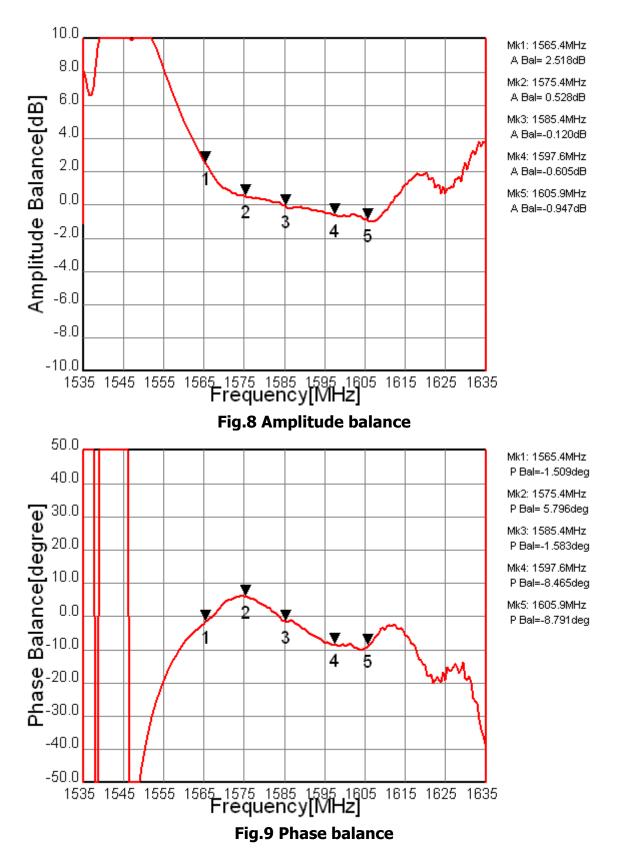


Fig.7 Impedance (S22)





Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemGPS+GLONASS (50/100 ohm)DATEFeb. 14, 2013Part NumberF6QB1G585P2BQVersion 1.0aFinal







Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd	
System	GPS+GLONASS (50/100 ohm)	DATE	Feb. 14, 2013
Part Number	F6QB1G585P2BQ	Version 1.0a	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
F6QB1G585P2BQ-J	Tape & Reel	5,000 pcs.	MP
F6QB1G585P2BQ-JA	Tape & Reel	Less than 5,000 pcs.	MP
F6QB1G585P2BQ-Y	Tape & Reel	15,000 pcs.	MP
F6QB1G585P2BQ-YA	Tape & Reel	Less than 15,000 pcs.	MP
F6QB1G585P2BQ-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.