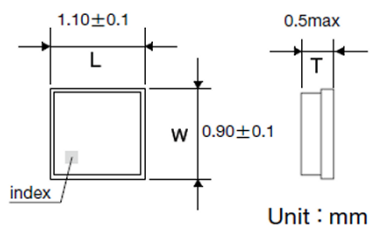


FBAR/SAW Devices (SAW Type)

F6QB2G350P2BH



■ Features

- Item Summary
SAW, Rx Type, 1.1x0.9x0.5mm
Band40
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 5000 , 15000pcs

■ Products characteristics table

System	TD-LTE / TD-SCDMA
Type	SAW
Function	Rx Type
band	Band40
Insertion Loss (typ)	2.8 dB
Operating Temp. Range	-30 to +85 °C
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (168 subst.)	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	1.1 ± 0.10 mm
Dimension W	0.9 ± 0.10 mm
Dimension T	Max 0.5 mm

2016.11.21

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.



* Pb Free Part



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Table 1. Electrical Specification

Item	Condition (MHz)	Specification			Unit	Remarks	
		Min.	Typ.	Max.			
Insertion Loss	2300 ~ 2400	-	2.8	3.5	dB(*1)		
Ripple	2300 ~ 2400	-	1.3	2.2	dB		
VSWR	Input	2300 ~ 2400	-	2.0	2.5	-	
	Output	2300 ~ 2400	-	2.0	2.5	-	
Amplitude Balance (S21 / S31)	2300 ~ 2400	-1.5	-0.6/ +0.5	+1.5	dB		
Phase Balance Phase(S21) - Phase(S31)+180	2300 ~ 2400	-20	-8/+6	+20	deg		
Absolute attenuation	10 ~ 2000	40	48	-	dB		
	880 ~ 915	40	61	-	dB		
	1710 ~ 1785	40	51	-	dB		
	2000 ~ 2170	35	47	-	dB		
	2010 ~ 2025	35	54	-	dB		
	2170 ~ 2240	20	30	-	dB		
	2402 ~ 2468	1	2	-	dB		
	2432 ~ 2482	13	18	-	dB		
	2460 ~ 2485	20	25	-	dB		
	2485 ~ 3000	20	27	-	dB		
	3000 ~ 4600	25	37	-	dB		
	4600 ~ 4800	25	46	-	dB		
	4800 ~ 6900	20	39	-	dB		
	6900 ~ 7200	20	40	-	dB		
7200 ~ 8000	20	37	-	dB			
Terminating Impedance	Unbalanced Input	50			Ω		
	Balanced Output	100//10nH			Ω		
Operating Temperature		-30 ~ +85			°C		
Maximum DC in all ports		-	-	3	VDC		
DC impedance to ground		100			MΩ	Device only	
Device size (L typ.x W typ.x H max.)		1.1 x 0.9 x 0.5			mm		

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

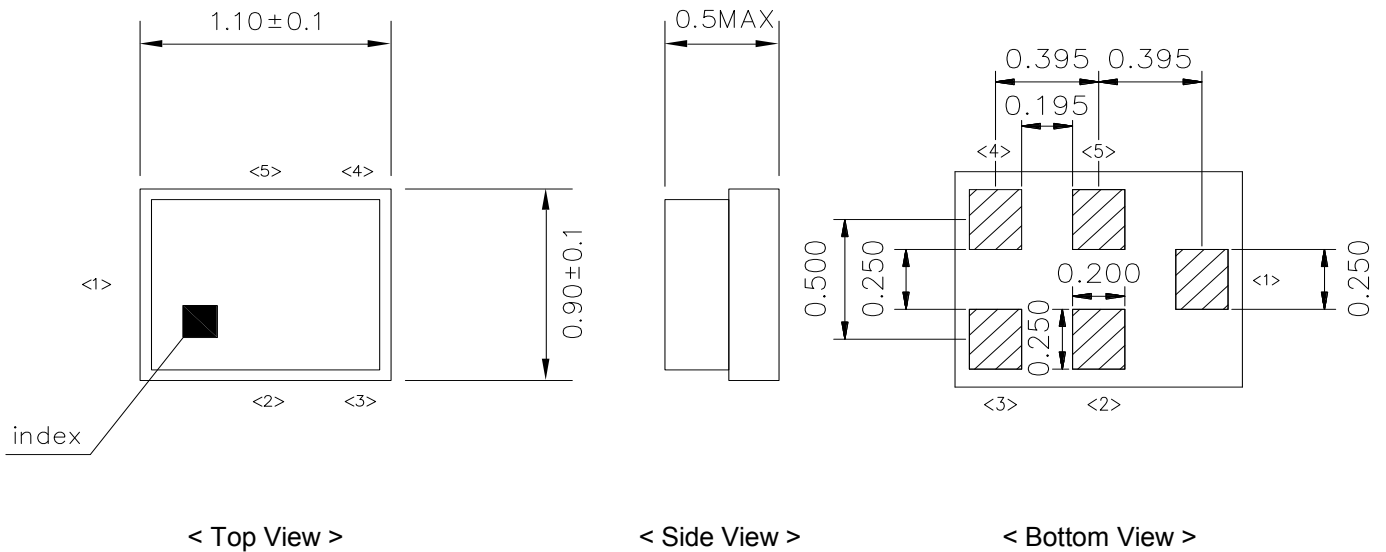


MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Dimensions



Unit : mm

Pin assignment

Pin No.	Symbol	Function
1	In	Unbalanced Input
2	GND	Ground
3	Out	Balanced Output
4	Out	Balanced Output
5	GND	Ground

Figure 1. Dimensions and Pin assignment



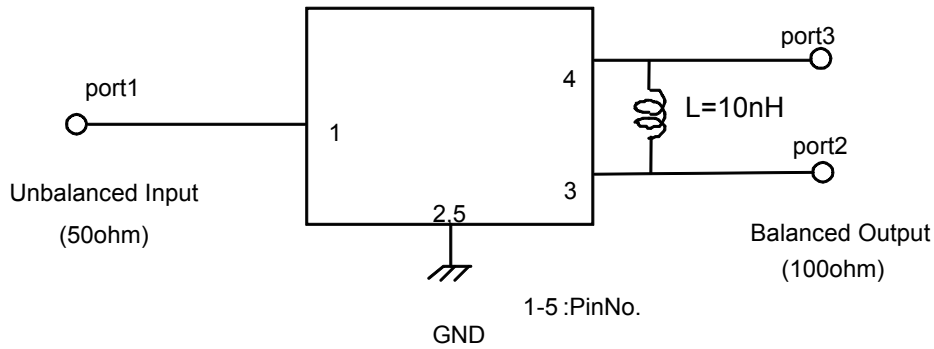
* Pb Free Part



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Evaluation Circuit



Recommended foot print pattern

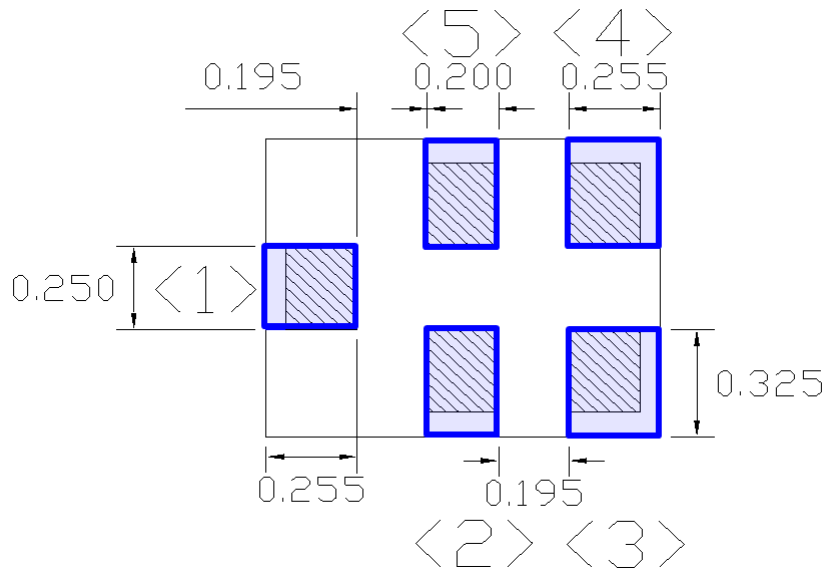


Figure 2. Recommended foot print pattern



MSL1

* Pb Free Part

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System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Passband

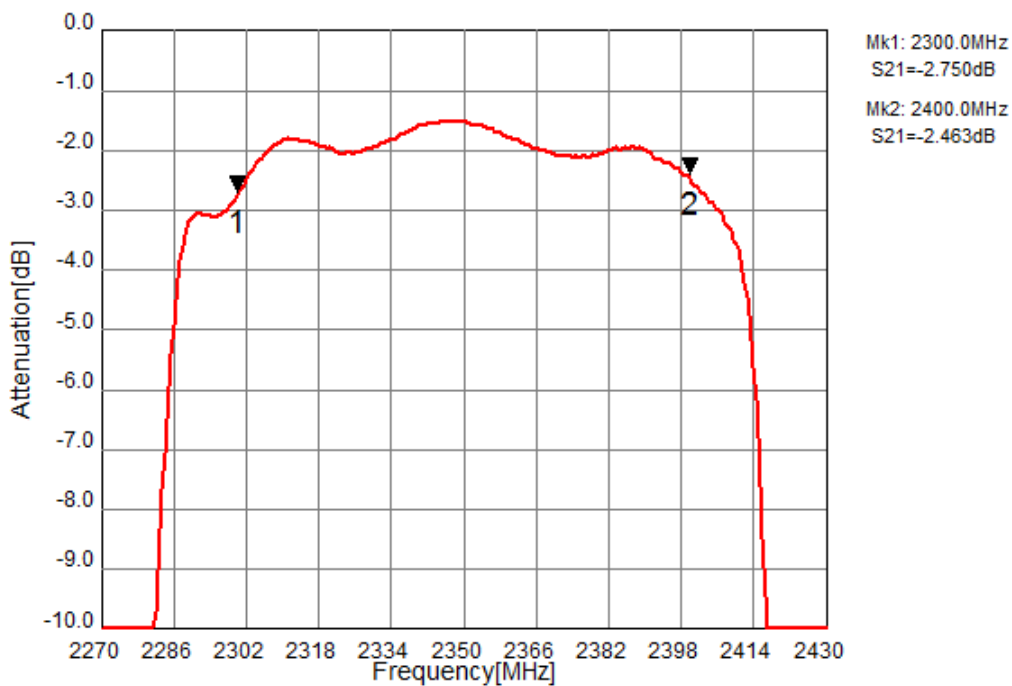
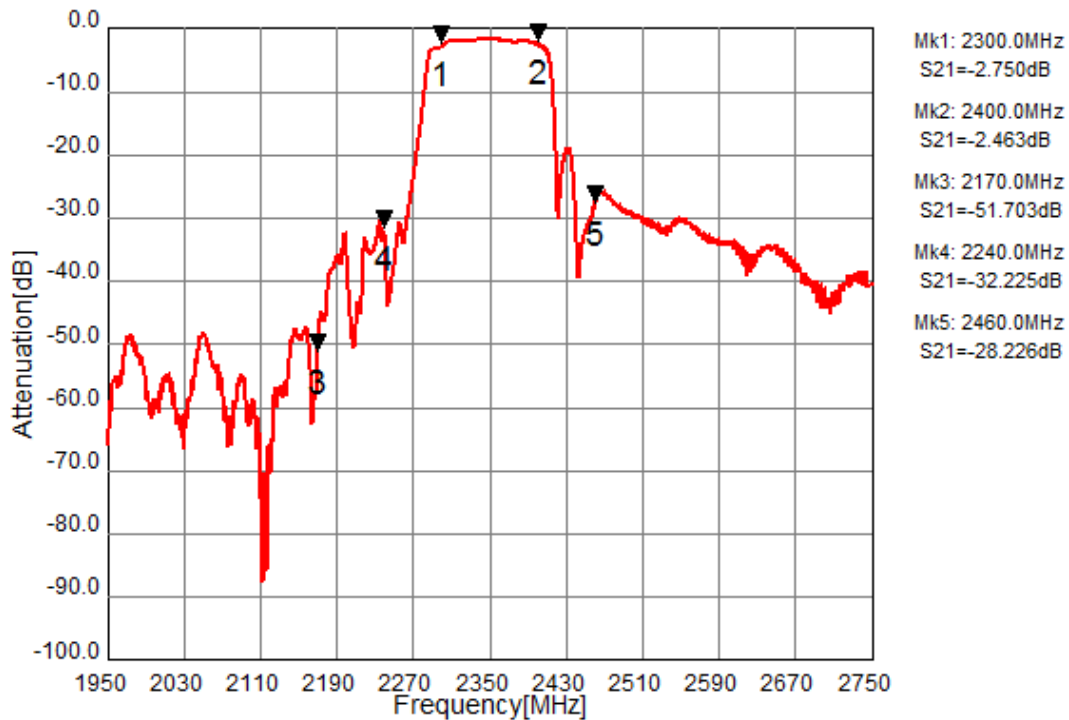


Figure 3-1. Electrical Characteristics

These data excludes loss that comes from the test board.



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Input Port

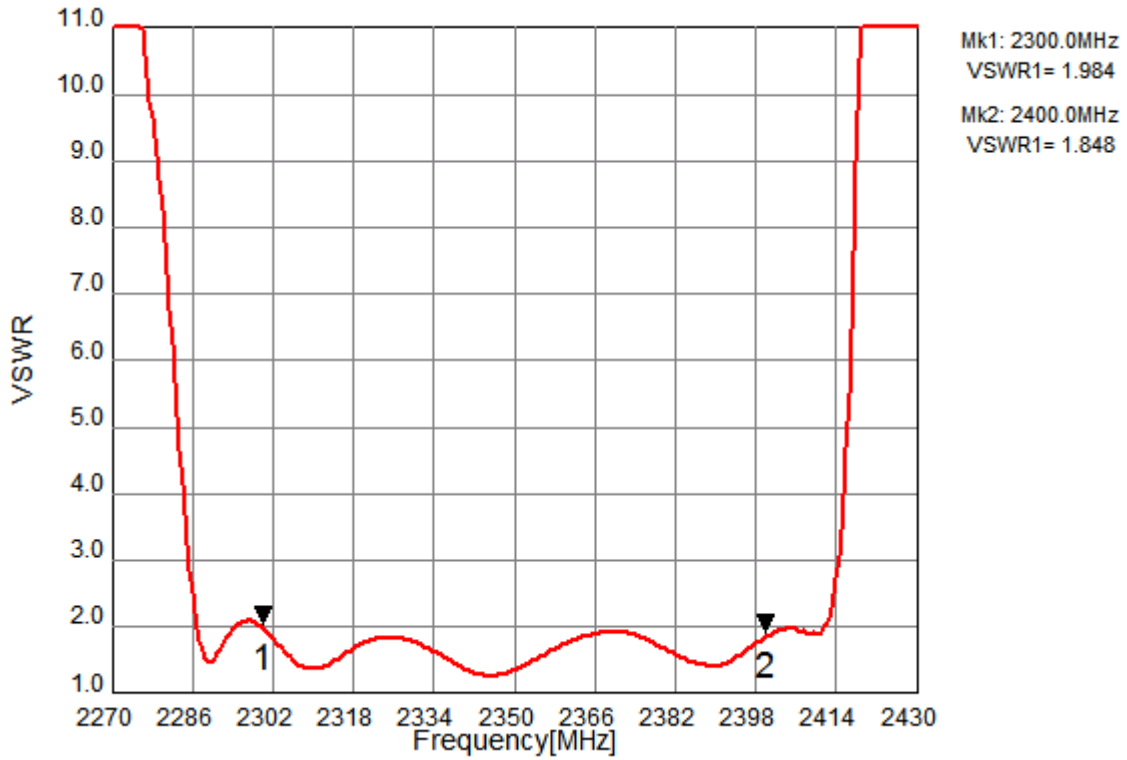
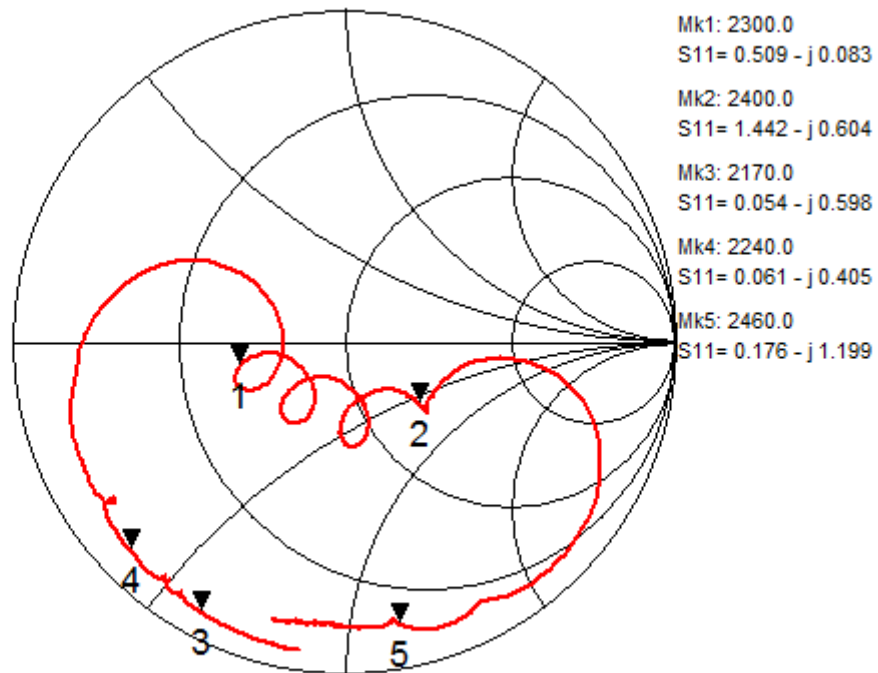


Figure 3-2. Electrical Characteristics





MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Output Port

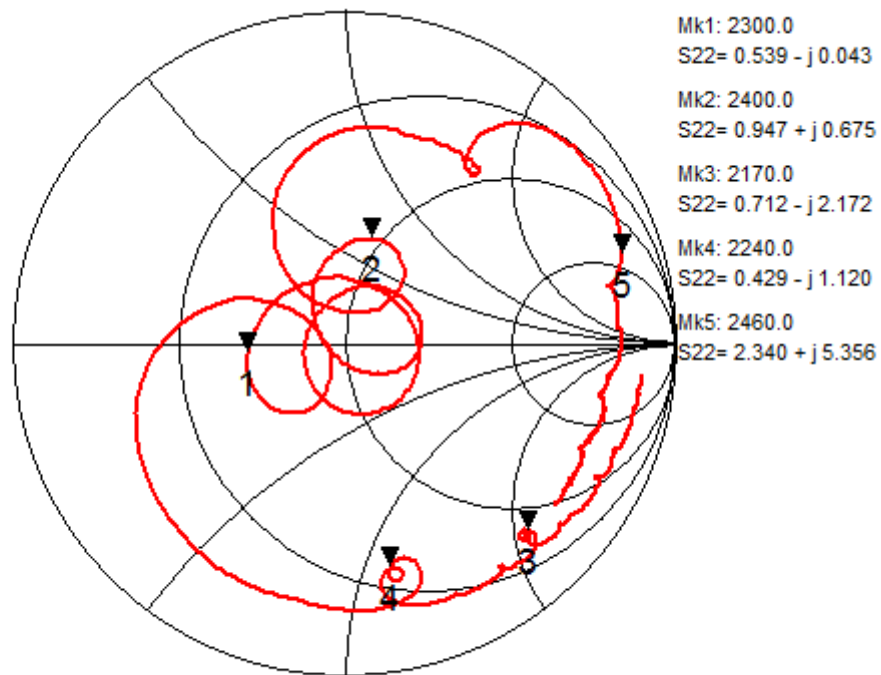
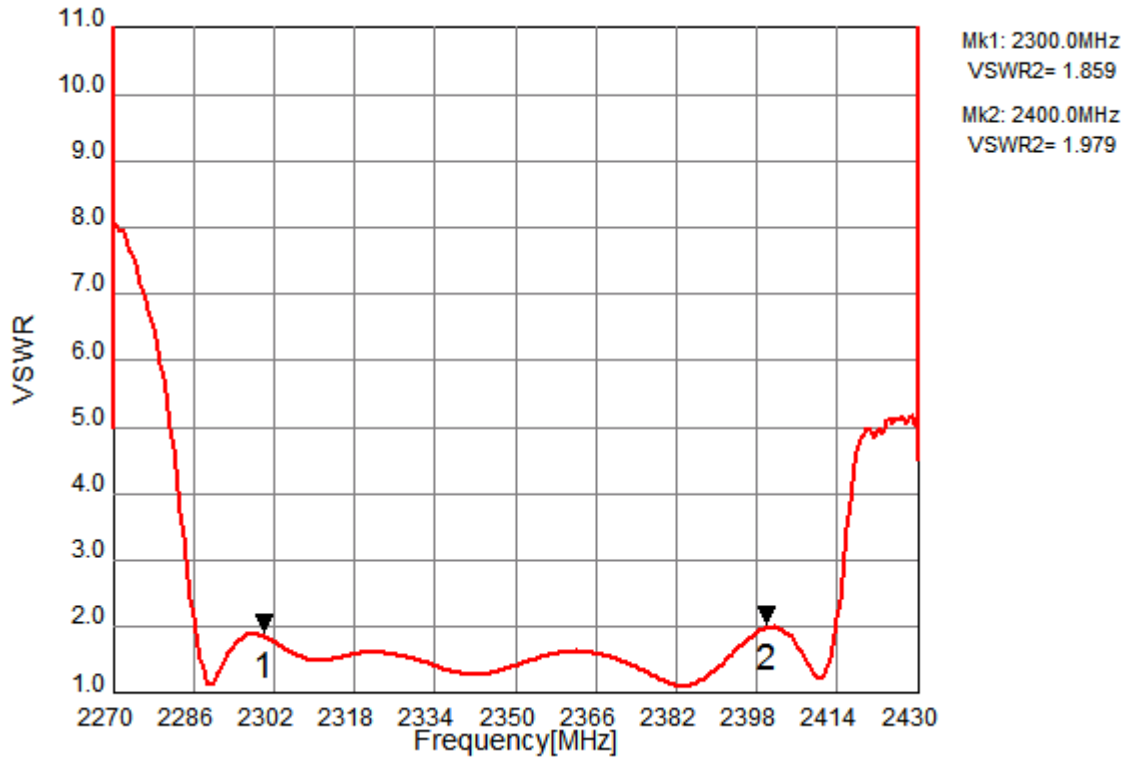


Figure 3-3. Electrical Characteristics



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Wideband

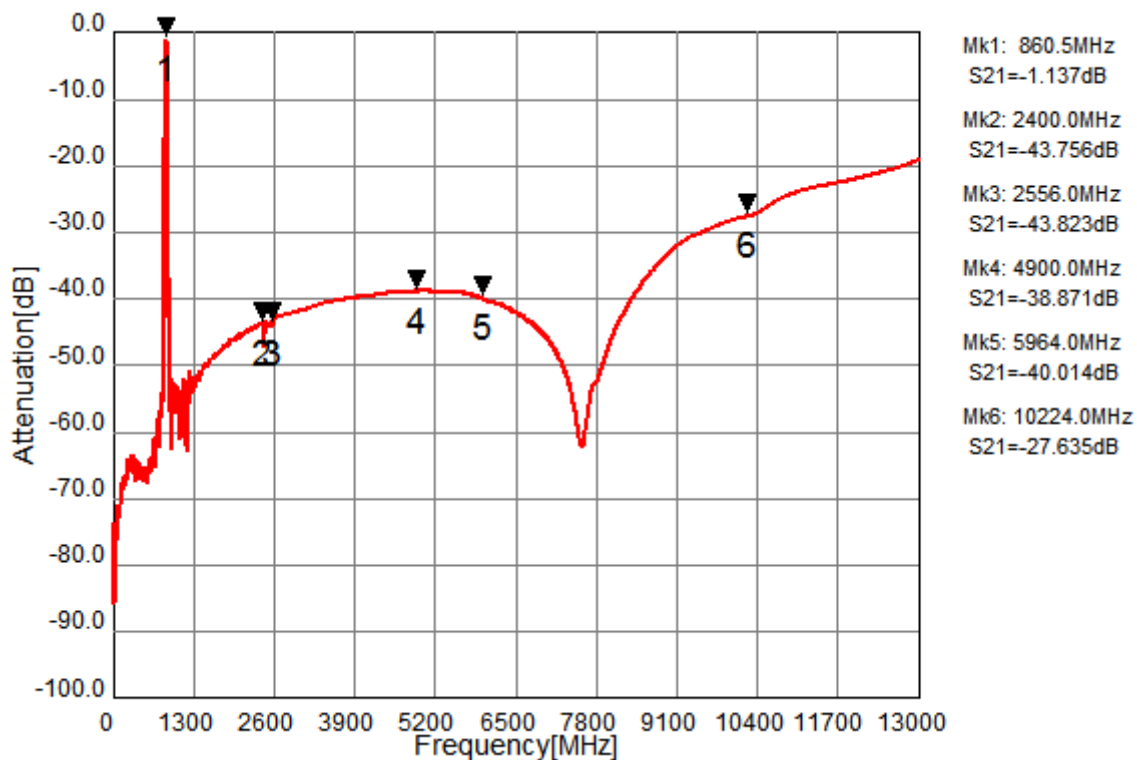


Figure 3-4. Electrical Characteristics



* Pb Free Part



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

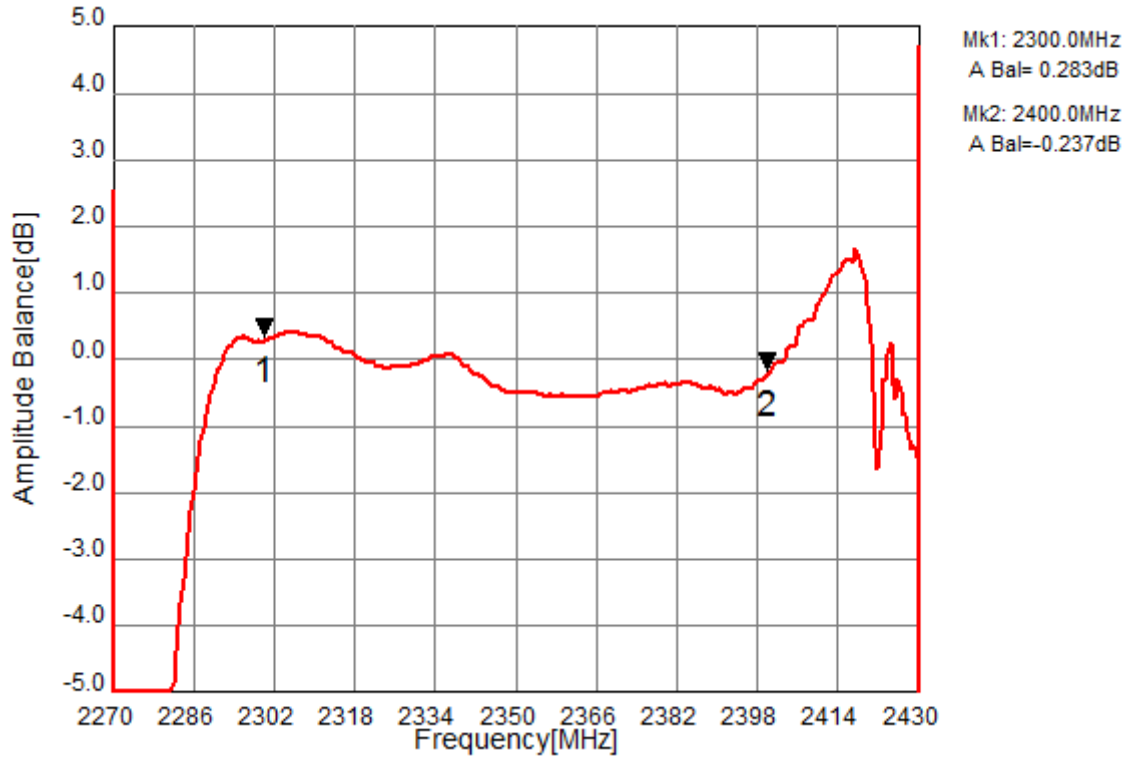


Fig.3-5 Amplitude Balance

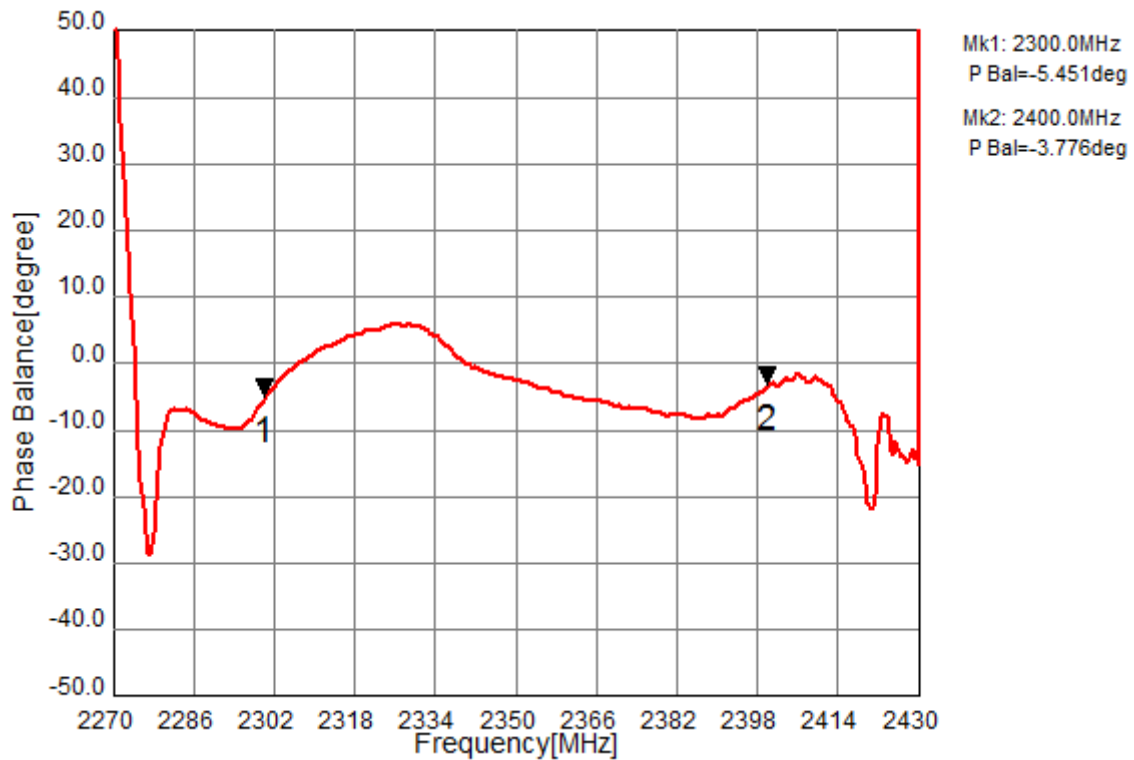


Fig.3-6 Phase Balance



* Pb Free Part



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band40 Rx Filter	DATE	Oct.1, 2015
Part Number	F6QB2G350P2BH	Version 1.1aA	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
F6QB2G350P2BH-J	Tape & Reel	5,000pcs.	MP
F6QB2G350P2BH-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QB2G350P2BH-Y	Tape & Reel	15,000pcs	MP
F6QB2G350P2BH-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QB2G350P2BH-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.