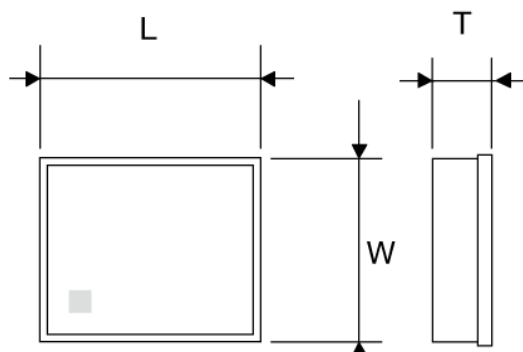


SAW Dual Filter

G6QN2G017M2RD



■ Features

- Item Summary
TD-SCDMA, 604
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 5000pcs

■ Products characteristics table

Temperature Range	-30 to +85℃
Band(3GPP)	B34 / B39
Use	TDLTE / TDSCDMA
Insertion Loss	1.6/2.0dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	1.5mm +0.1:-0.1
W	1.1mm +0.1:-0.1
T	0.5mm max

2015.06.03

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.



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA Band39/Band34 Dual	DATE	Nov. 17, 2011
Part Number	G6QN2G017M2RD	Version 1.0aa	Final

Table 1.Electrical specifications(Filter 1)

Pass Band (1880-1920MHz)						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	1880-1920	-	1.6	1.9	dB (*1)	
Ripple	1880-1920	-	0.3	1.0	dB	
Absolute attenuation	0.1-1435	35	41	-	dB	
	1435-1805	25	30			
	1805-1840	17	27	-	dB	
	1840-1850	14	20	-	dB	
	2000-2175	28	32	-	dB	
	2175-3500	26	31	-	dB	
	3500-6000	20	26	-	dB	
VSWR (Input)	1880-1920	-	1.5	1.9	-	
VSWR (Output)	1880-1920	-	1.5	1.9	-	
Input impedance (Unbalanced)		50//4.7nH			Ohm	
Output impedance (Unbalanced)		50			Ohm	
Operating temperature		-30to +85			°C	

(*1) These data include loss that comes from the test board.(0.15dB)



MSL1

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Table 2.Electrical specifications(Filter 2)

Pass Band (2010-2025MHz)						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	2010-2025	-	2.0	2.3	dB (*1)	
Ripple	2010-2025	-	0.2	0.8	dB	
Absolute attenuation	0.1-1850	37	44	-	dB	
	1850-1950	30	36	-	dB	
	1950-1980	10	18	-	dB	
	2060-2075	5	20	-	dB	
	2075-2110	15	20	-	dB	
	2110-3500	35	40	-	dB	
	3500-4060	30	37	-	dB	
	4060-6000	25	34	-	dB	
VSWR (Input)	2010-2025	-	1.3	1.8	-	
VSWR (Output)	2010-2025	-	1.3	1.8	-	
Input impedance (Unbalanced)		50//4.7nH			Ohm	
Output impedance (Unbalanced)		50			Ohm	
Operating temperature		-30to +85			°C	

(*1) These data include loss that comes from the test board.(0.15dB)



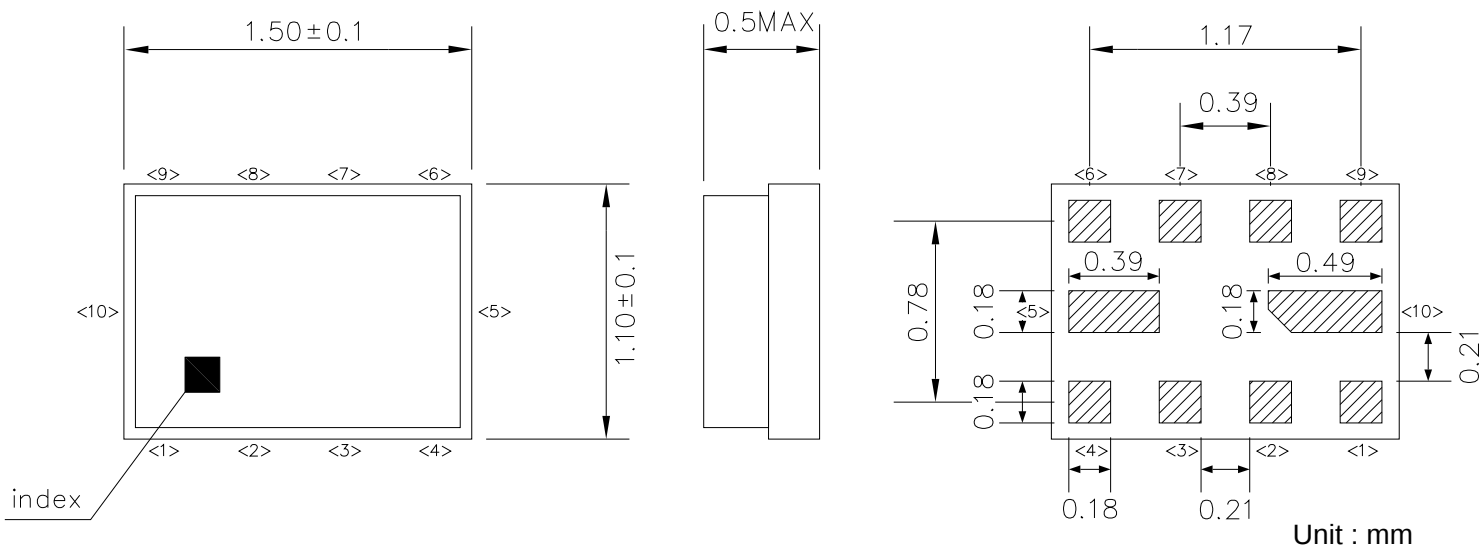
MSL1

*Pb Free part

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System	TD-SCDMA Band39/Band34 Dual	DATE	Nov. 17, 2011
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Dimensions

Device size: 1.5typ. x 1.1typ. x 0.5max.

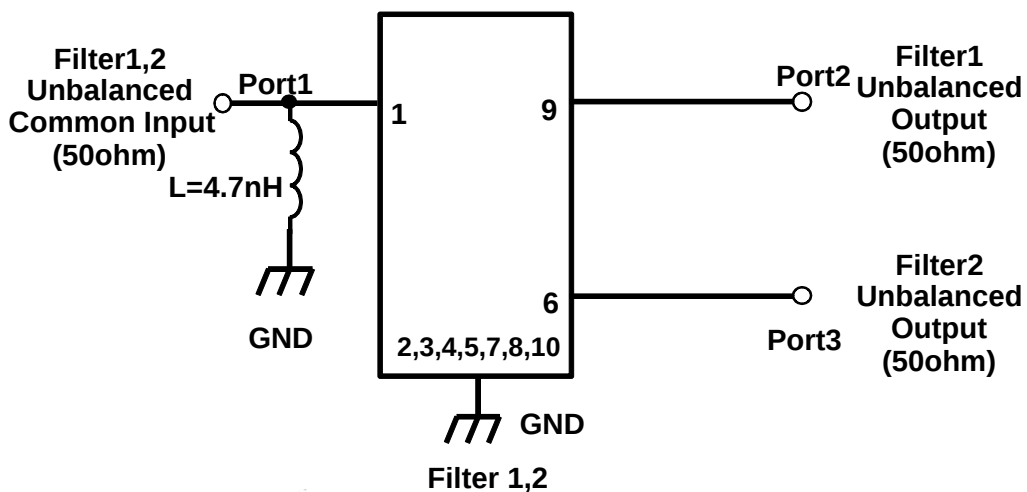


Pin Configuration

Pin No.	Pin name	Description
1	IN	Filter1,2 input pin
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	OUT	Filter2 output pin
7	GND	Ground
8	GND	Ground
9	OUT	Filter1 output pin
10	GND	Ground

Filter No.	Passband(MHz)	System
1	1880 ~ 1920	Band39
2	2010 ~ 2025	Band34

Evaluation Circuit



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*Pb Free part

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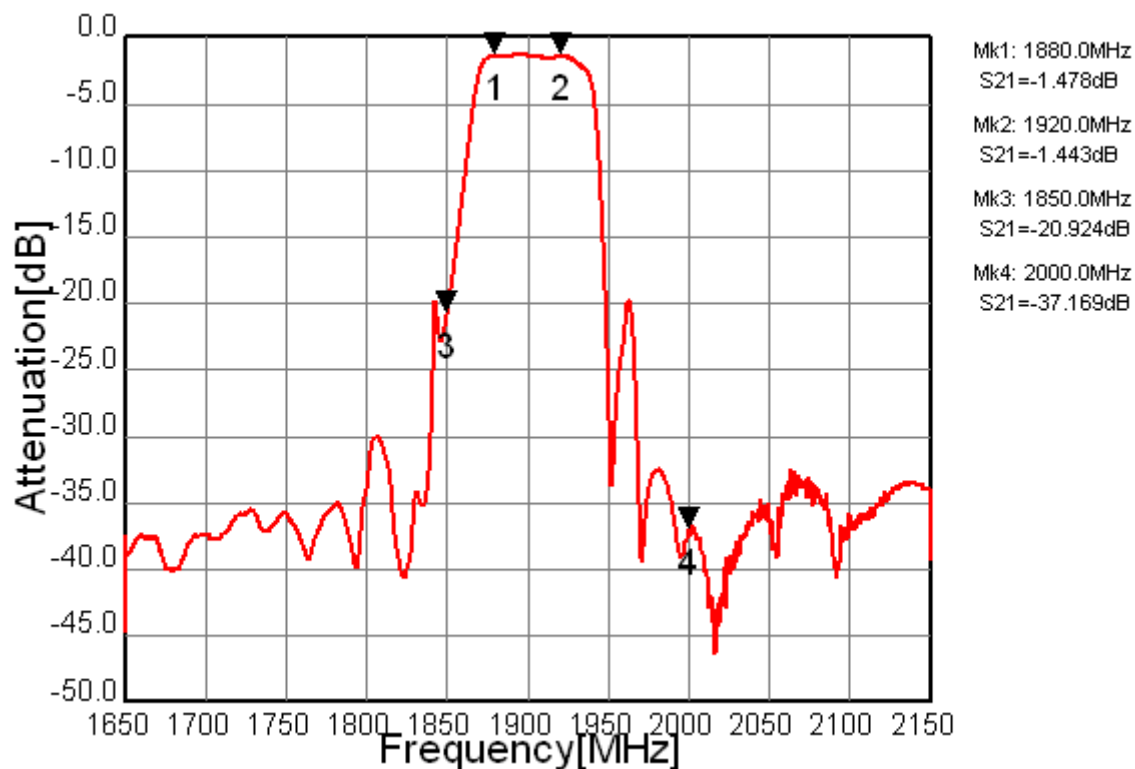


Fig.1 Pass-band Characteristic (Filter1)

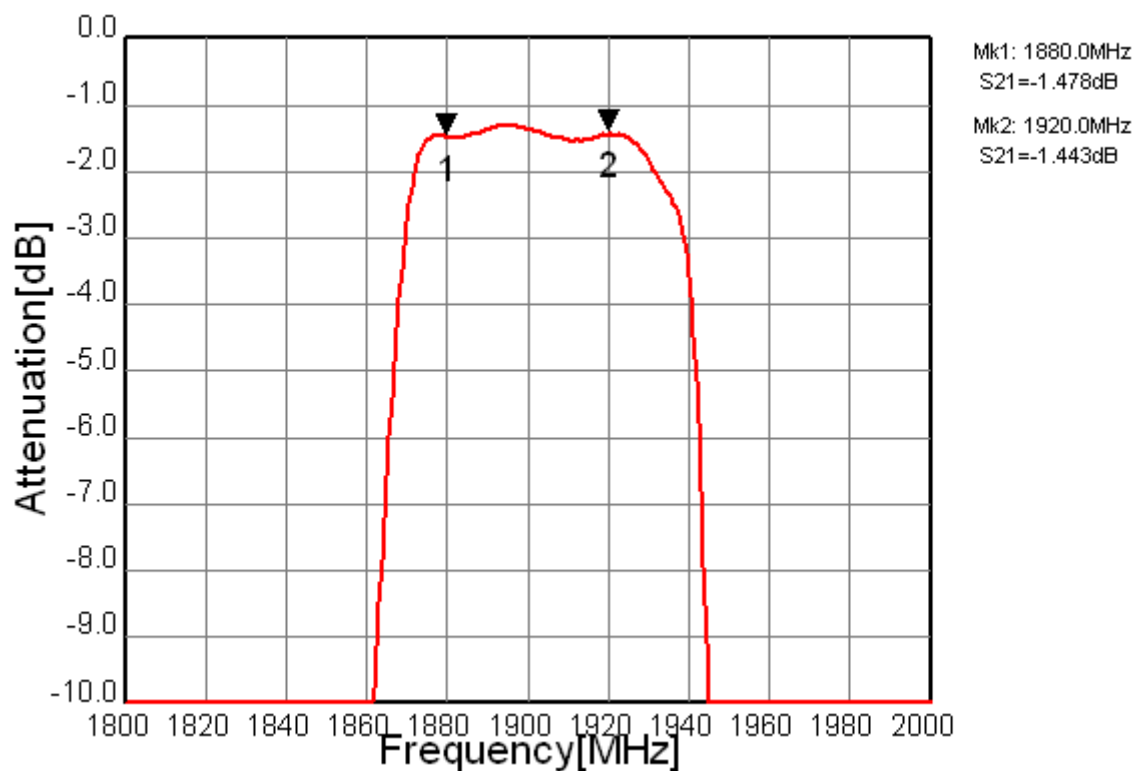


Fig.2 In-band Characteristic (Filter1)

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MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
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Part Number	G6QN2G017M2RD	Version 1.0aa	Final

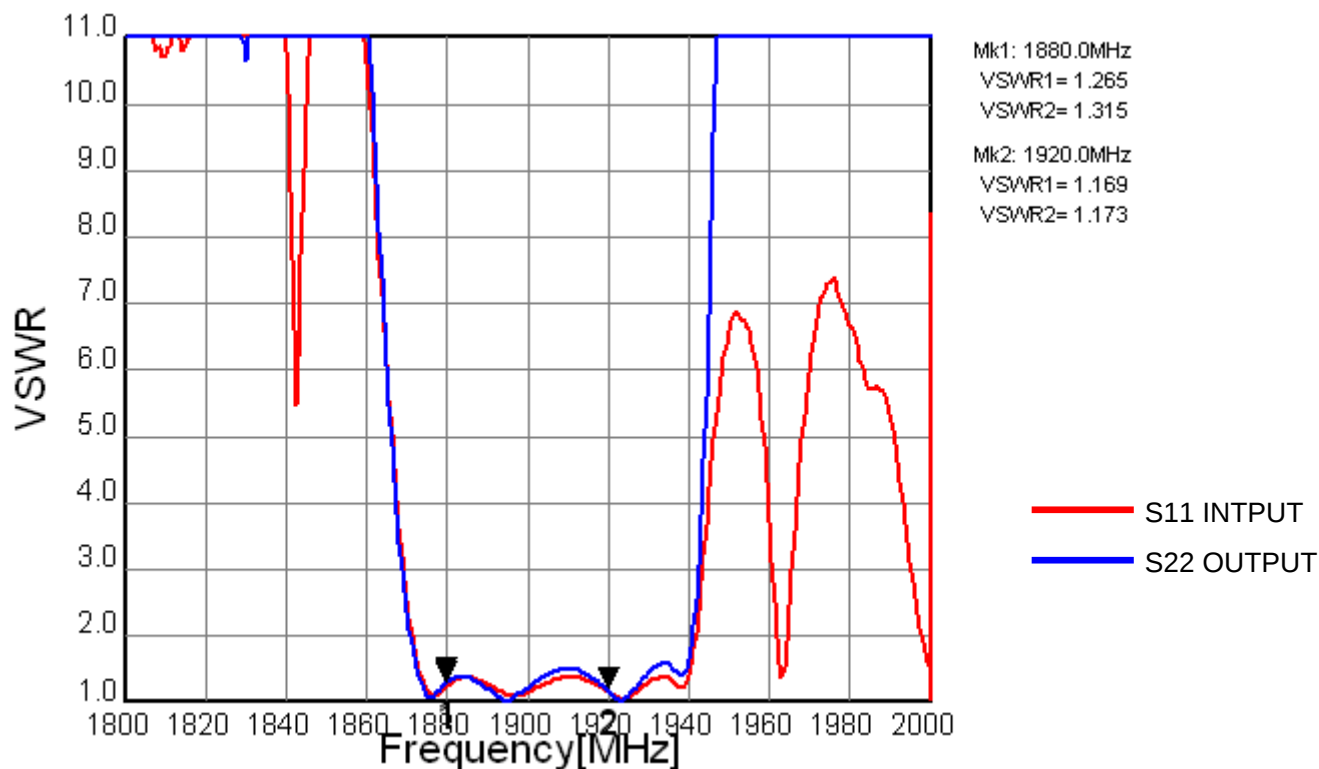


Fig.3 VSWR(Filter1)

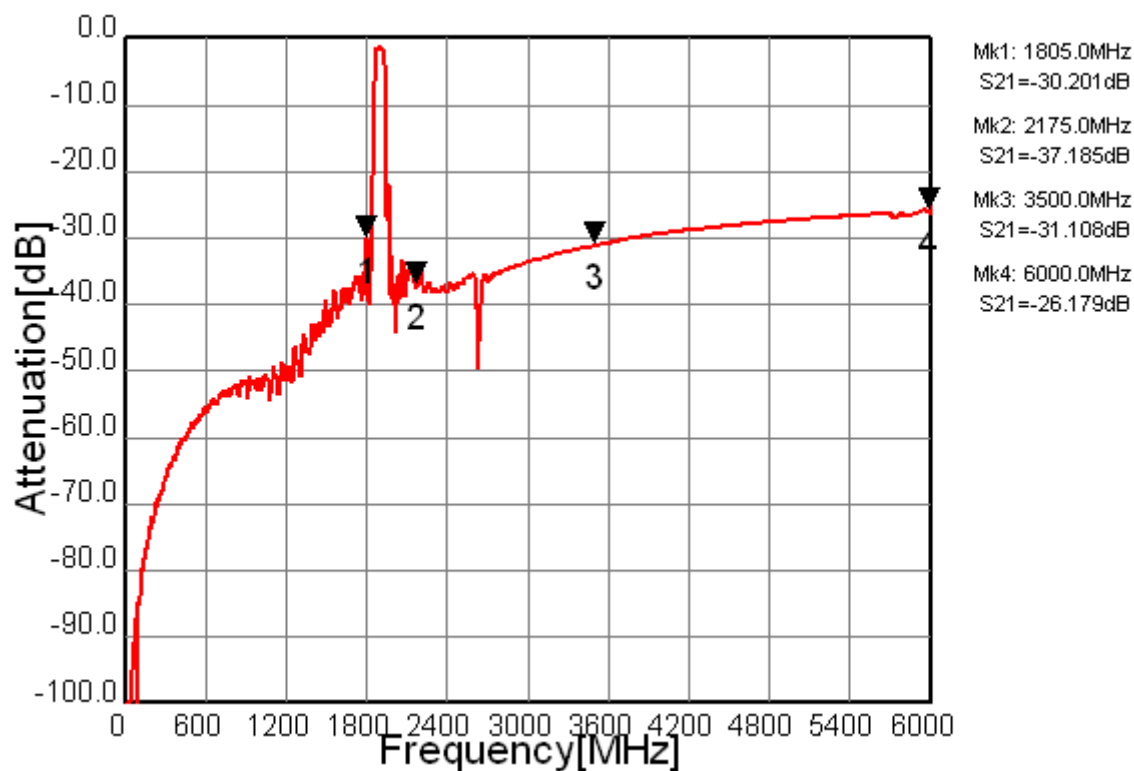


Fig.4 Wide-band Characteristic (Filter1)

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MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA Band39/Band34 Dual	DATE	Nov. 17, 2011
Part Number	G6QN2G017M2RD	Version 1.0aa	Final

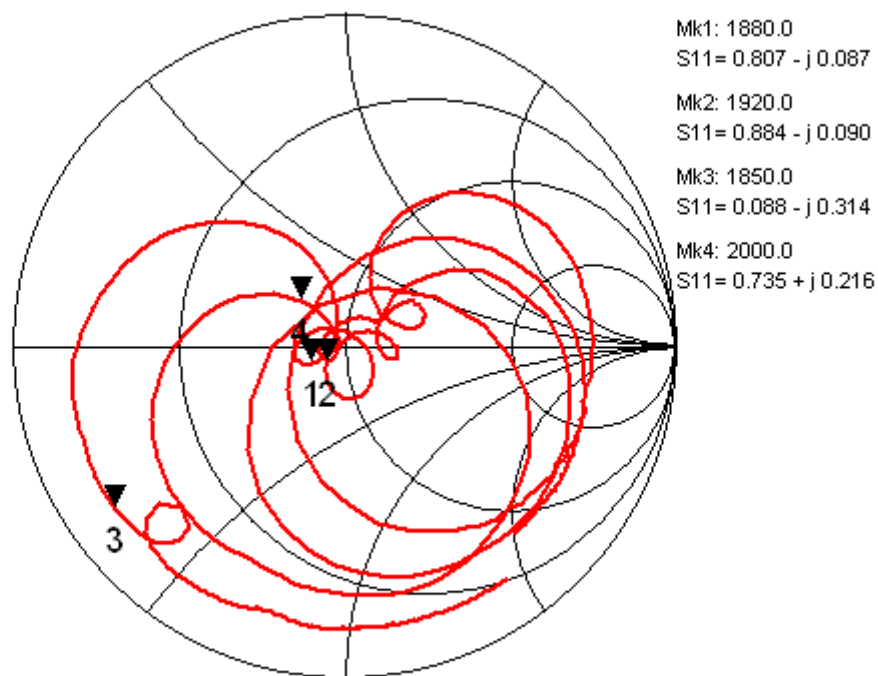


Fig.5 Impedance (INPUT) (Filter1)

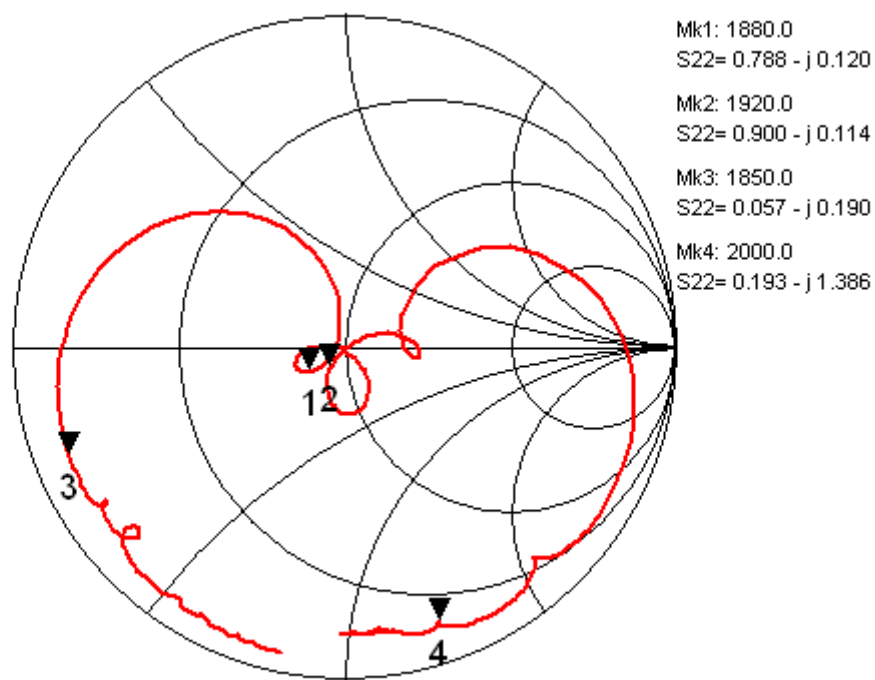


Fig.6 Impedance (OUTPUT) (Filter1)

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MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA Band39/Band34 Dual	DATE	Nov. 17, 2011
Part Number	G6QN2G017M2RD	Version 1.0aa	Final

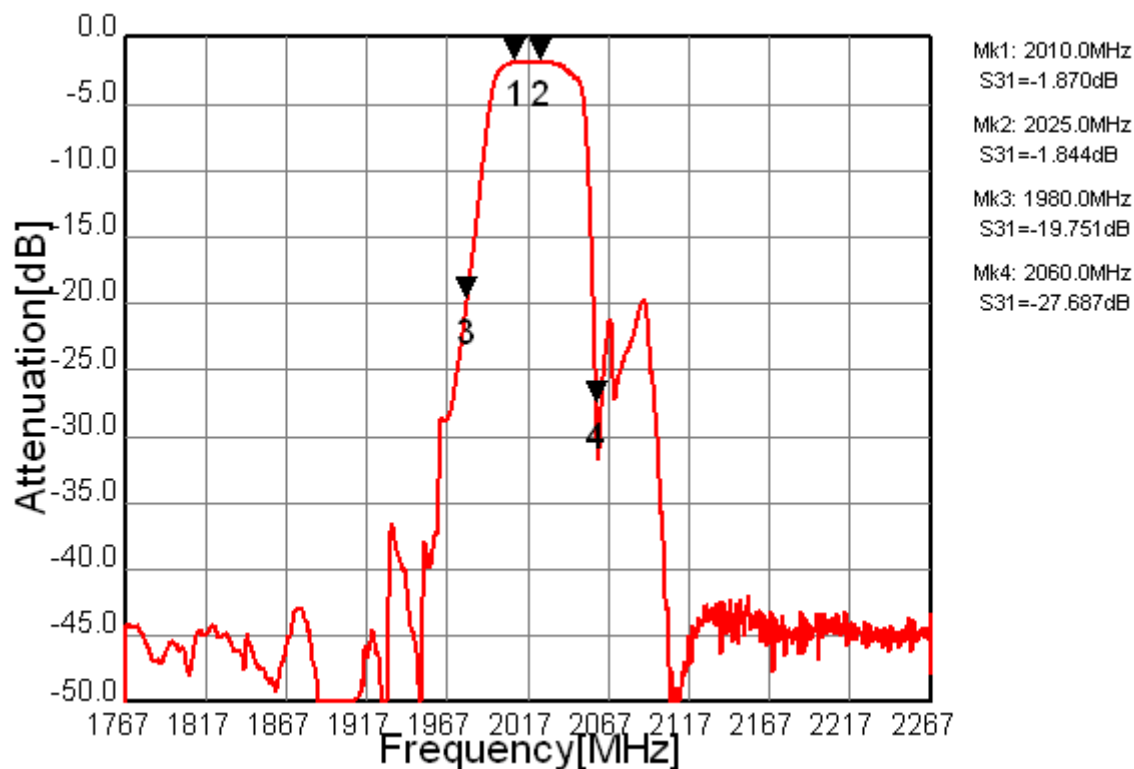


Fig.7 Pass-band Characteristic (Filter2)

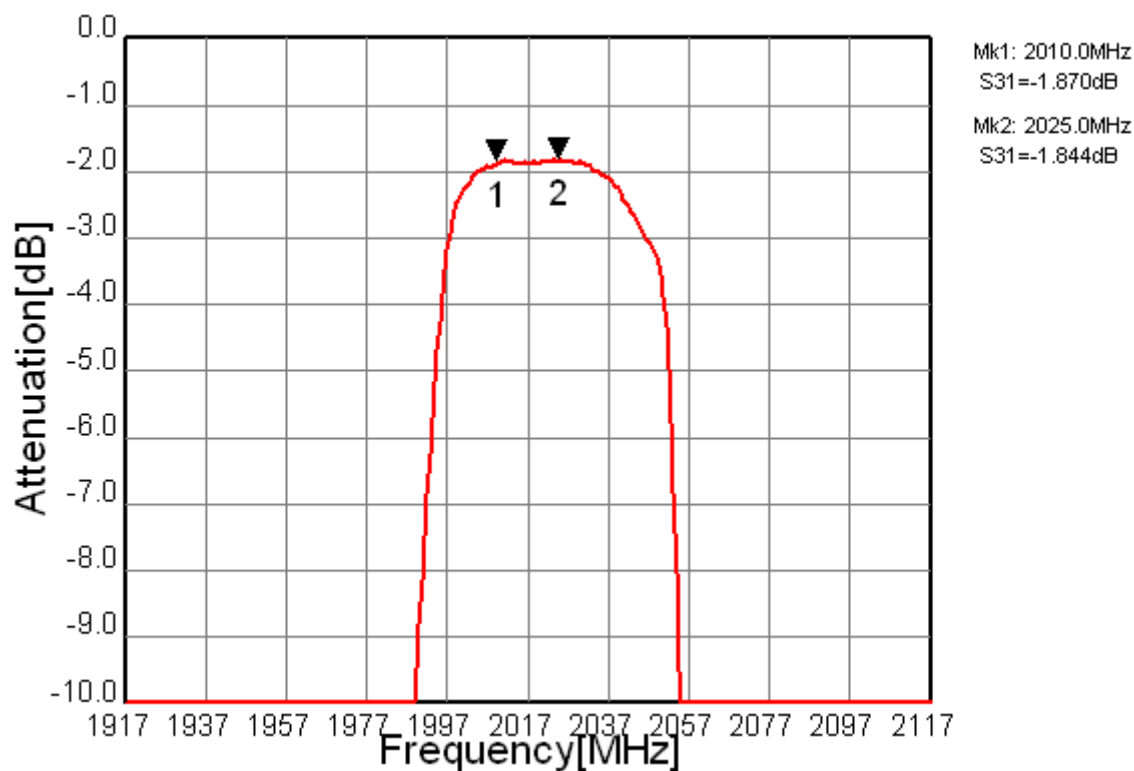


Fig.8 In-band Characteristic (Filter2)

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MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA Band39/Band34 Dual	DATE	Nov. 17, 2011
Part Number	G6QN2G017M2RD	Version 1.0aa	Final

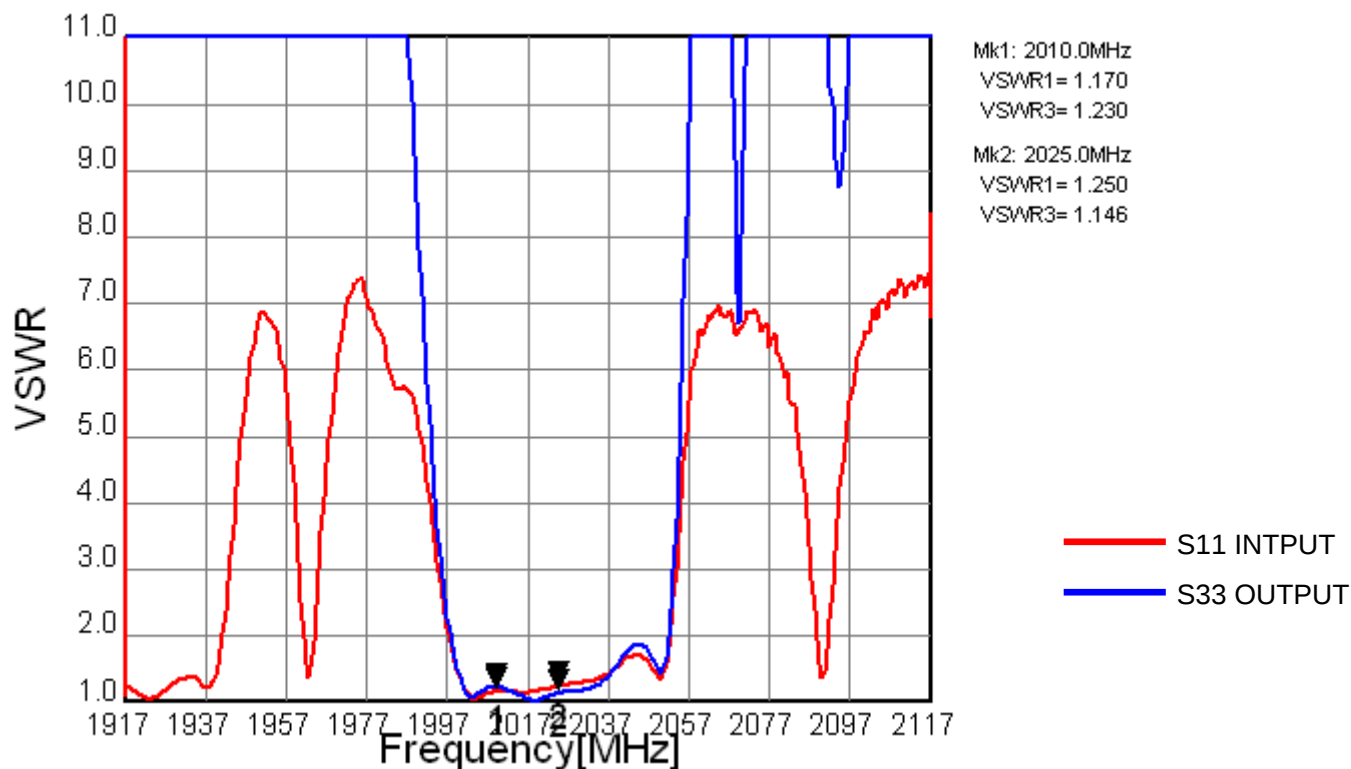


Fig.9 VSWR (Filter2)

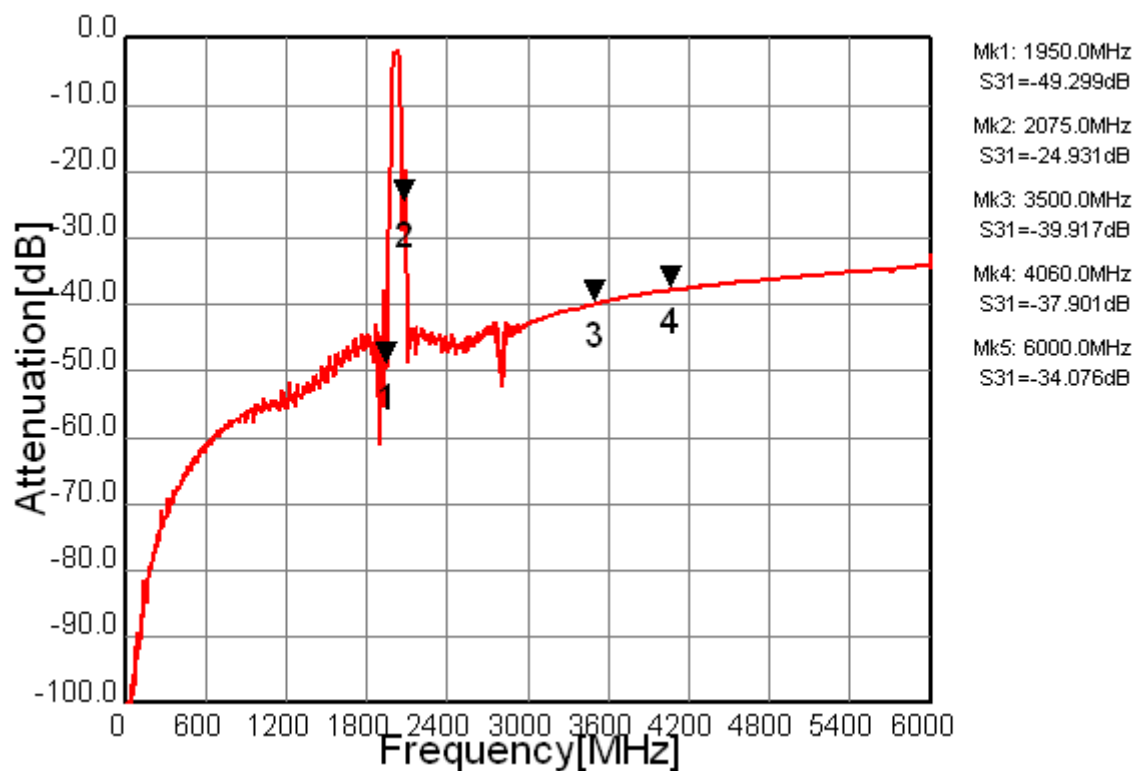


Fig.10 Wide-band Characteristic (Filter2)

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MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA Band39/Band34 Dual	DATE	Nov. 17, 2011
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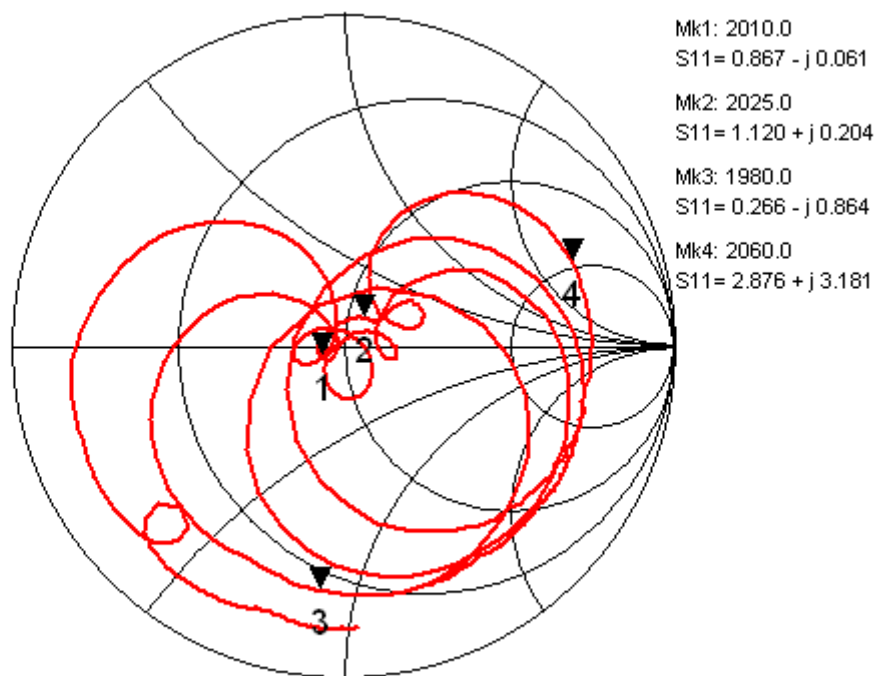


Fig.11 Impedance (INPUT) (Filter2)

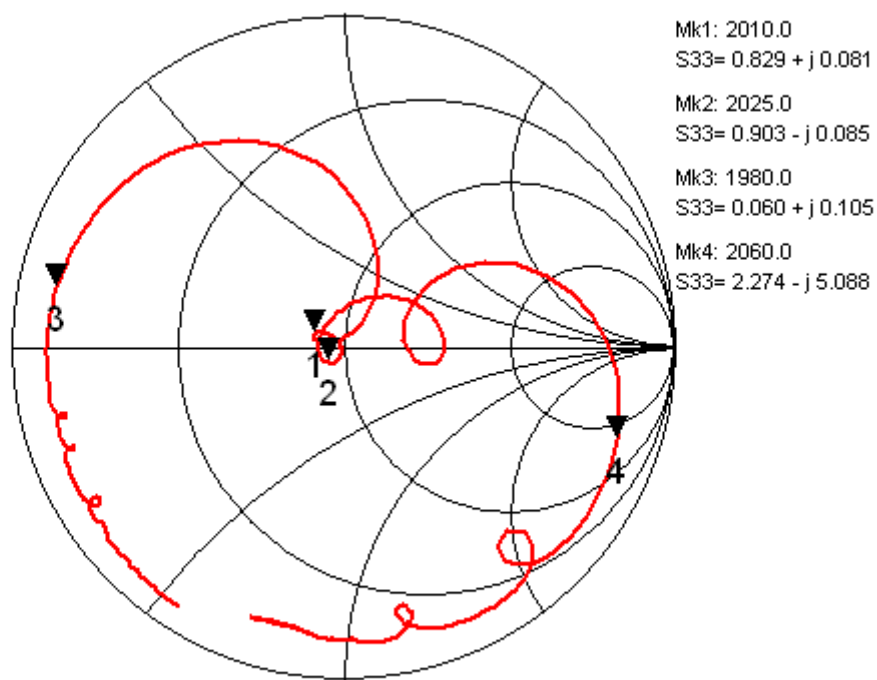


Fig.12 Impedance (OUTPUT) (Filter2)

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MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
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Part Number	G6QN2G017M2RD	Version 1.0aa	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
G6QN2G017M2RD- J	Tape & Reel	5,000 pcs.	MP
G6QN2G017M2RD-JA	Tape & Reel	less than 5,000 pcs.	MP
G6QN2G017M2RD -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.

TAIYO YUDEN