



\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

**Table 1-1. Electrical Specification**

Item			Condition (MHz)	Specification			Unit	Remarks
				Min	Typ	Max		
Filter1	Insertion loss		2555~2655	-	2.2	3.1	dB (*1)	
	Ripple		2555~2655	-	0.5	2.0	dB	
	VSWR	Input	2555~2655	-	1.4	2.0	-	
		Output		-	1.6	2.0	-	
	Absolute attenuation		50~920	30	45	-	dB	
			920~1785	21	29	-	dB	
			1880~1920	22	28	-	dB	
			2401~2483	25	30	-	dB	
			4900~5900	20	26	-	dB	
			5110~5310	20	27	-	dB	
Filter2	Insertion loss		1880~1920	-	1.3	1.9	dB (*1)	
	Ripple		1880~1920	-	0.3	1.2	dB	
	VSWR	Input	1880~1920	-	1.5	2.0	-	
		Output		-	1.3	2.0	-	
	Absolute attenuation		50~920	30	42	-	dB	
			1500~1680	25	30	-	dB	
			1710~1780	25	30	-	dB	
			2401~2483	28	33	-	dB	
			2555~2655	25	34	-	dB	
			3760~3840	25	44	-	dB	
4900~5900			15	29	-	dB		
Terminating Impedance			Filter1 Output port	50//3.9 nH			Ω	
			Filter2 Output port	50//8.2 nH			Ω	
			Common Input port	50 //2.6 nH			Ω	
Operating Temperature				-30 to +85			°C	
Maximum DC in all ports				-	-	5	VDC	Device only
DC impedance to ground				100			MΩ	Device only
Device size (L typ.x W typ.x H max.)				1.5 x 1.1 x 0.5			mm	

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

**TAIYO YUDEN**



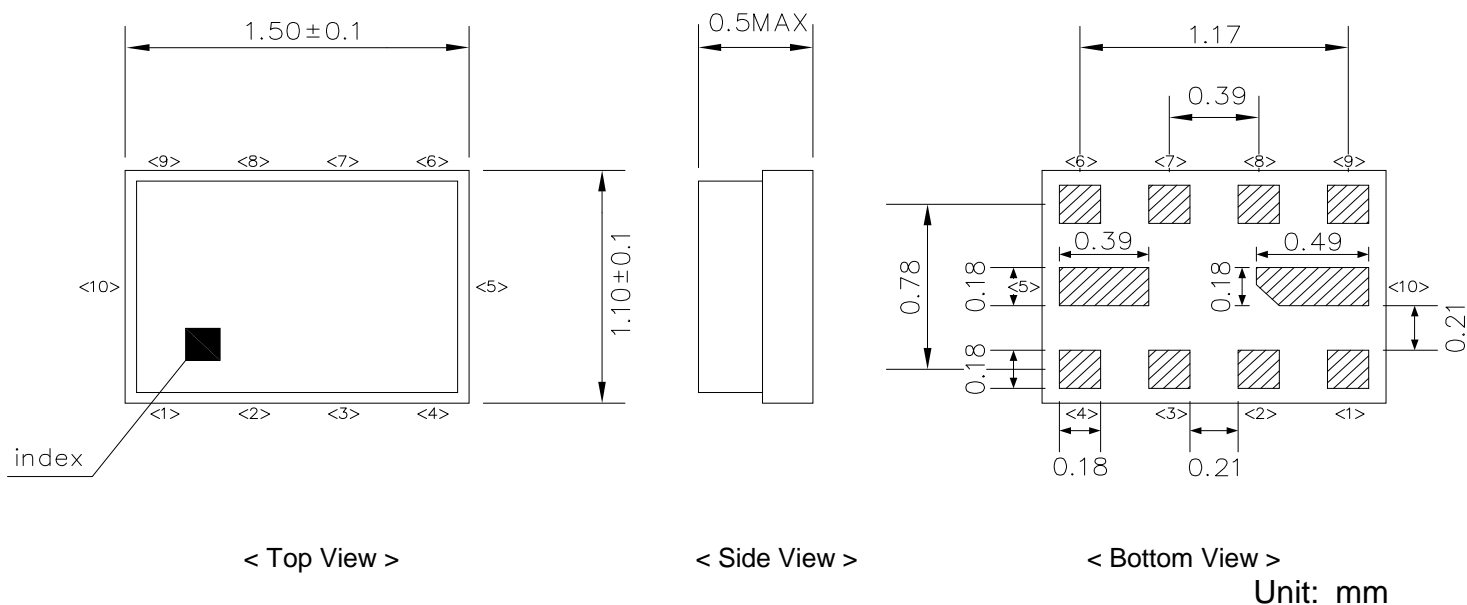
\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Dimensions



## Pin assignment

Pin No.	Pin name	Description
1	In	Common Input
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	Out (Filter2)	Filter2 Output
7	GND	Ground
8	GND	Ground
9	Out (Filter1)	Filter1 Output
10	GND	Ground

Filter No.	Passband(MHz)	System
1	2555 ~ 2655	Band41
2	1880 ~ 1920	Band39

**Figure 1. Dimensions and Pin assignment**



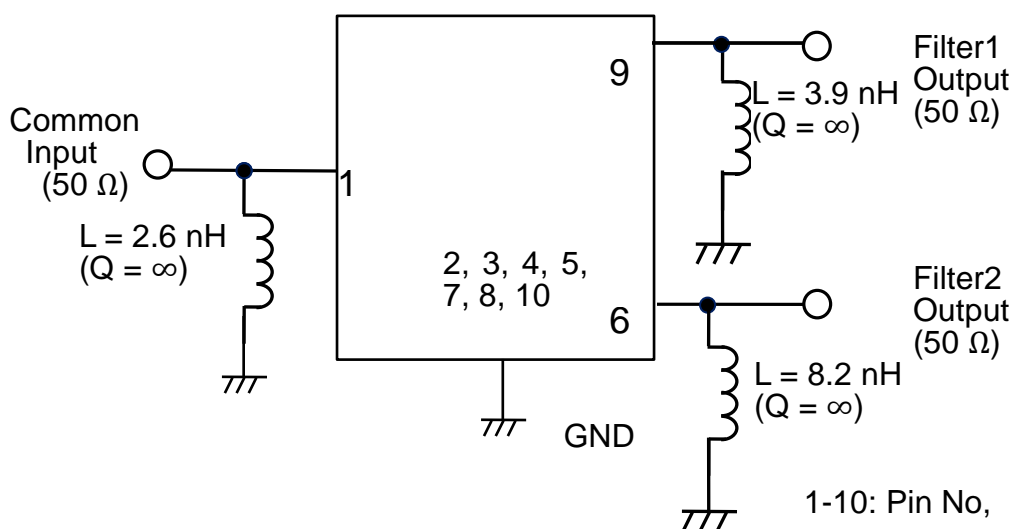
\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Evaluation Circuit



## Recommended foot print pattern

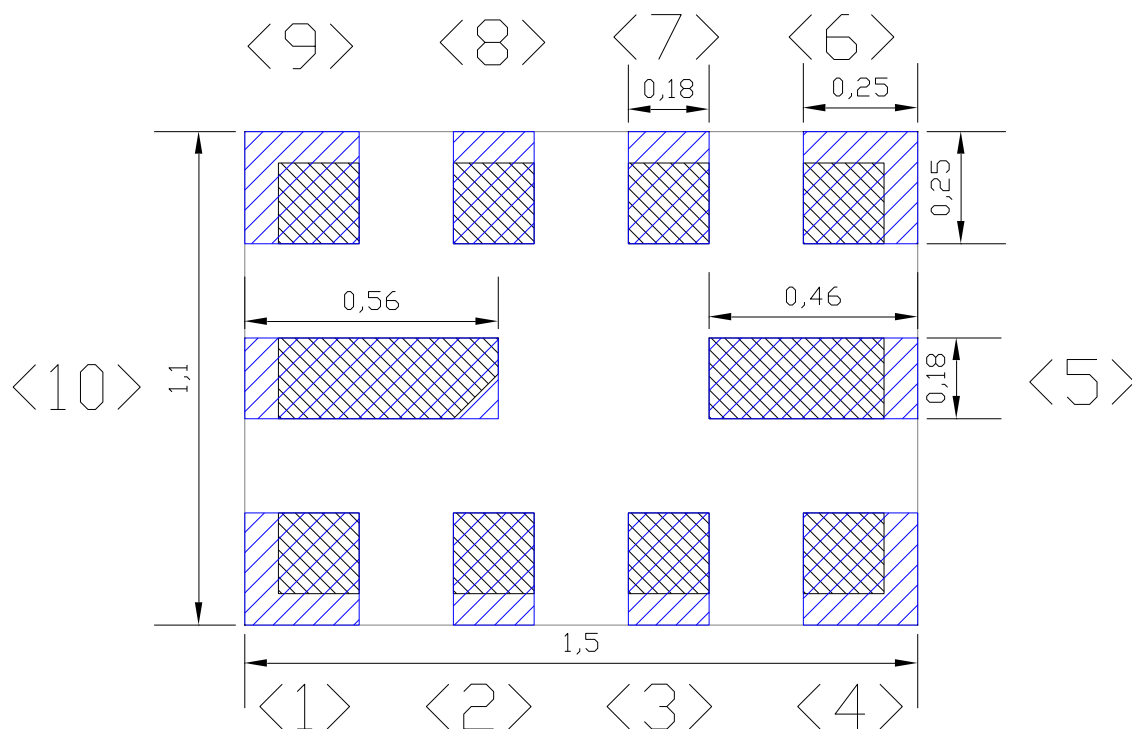


Figure 2. Recommended foot print pattern



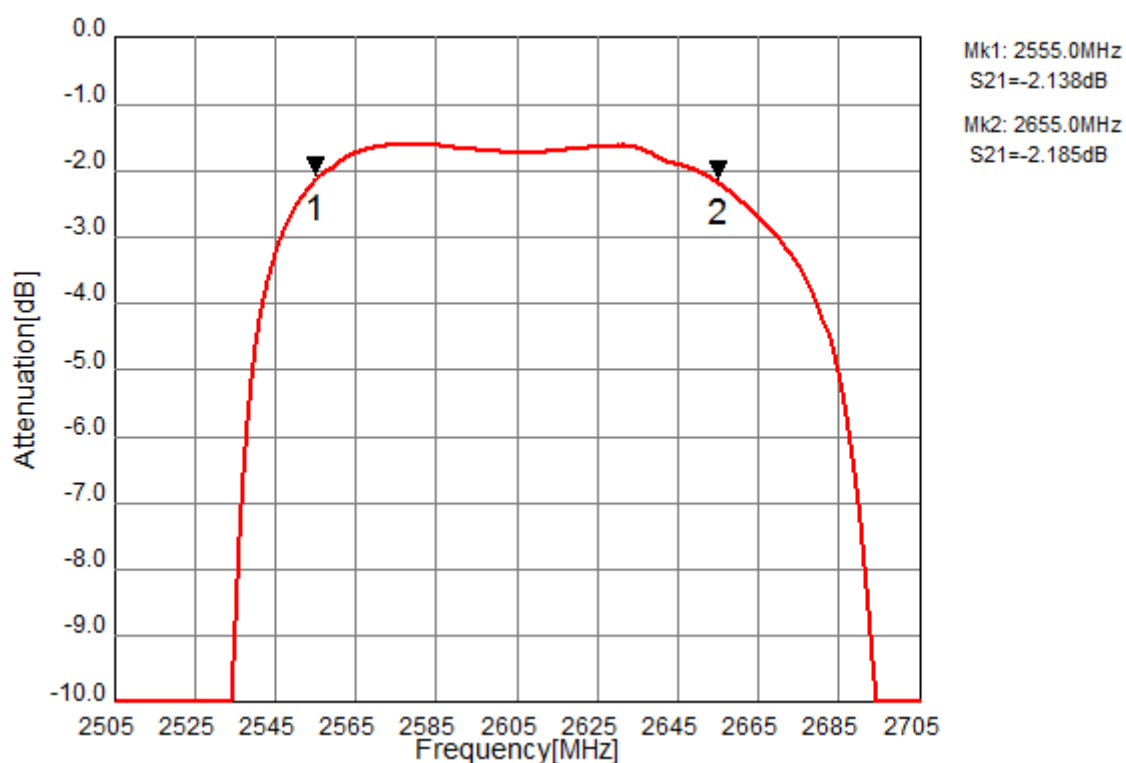
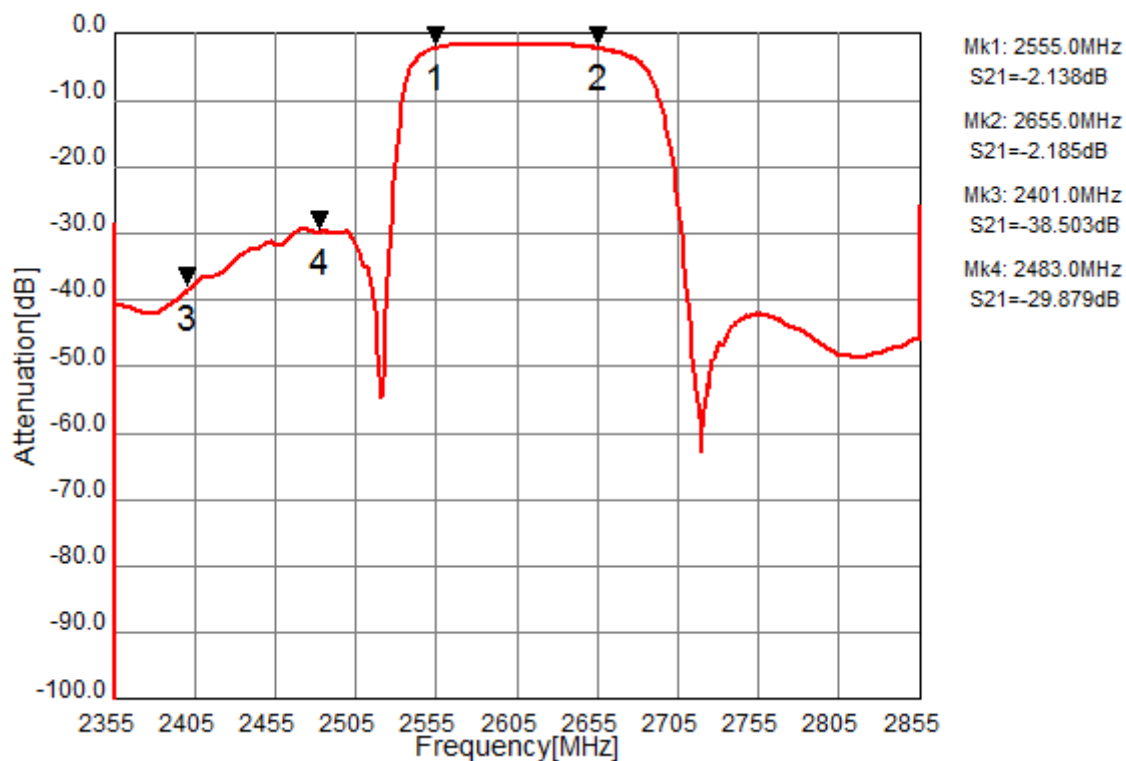
\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Passband (Filter1)



**Figure 3-1. Electrical Characteristics**

These data exclude loss that comes from the test board.

**TAIYO YUDEN**



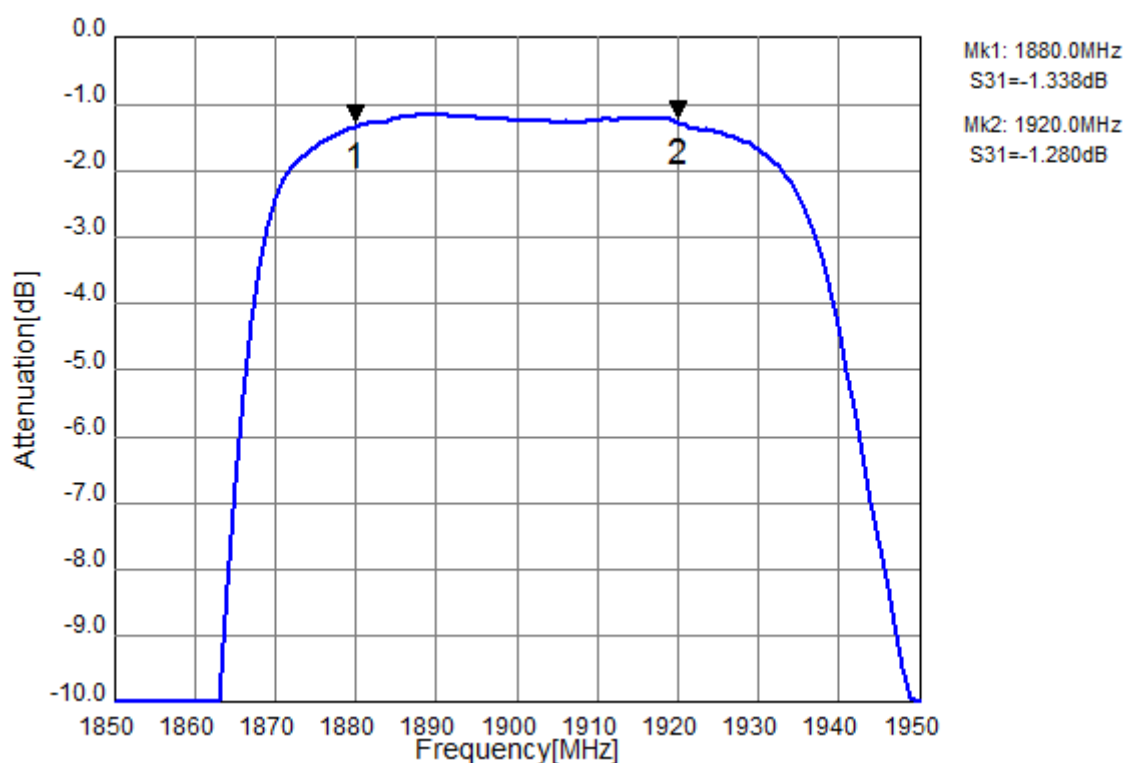
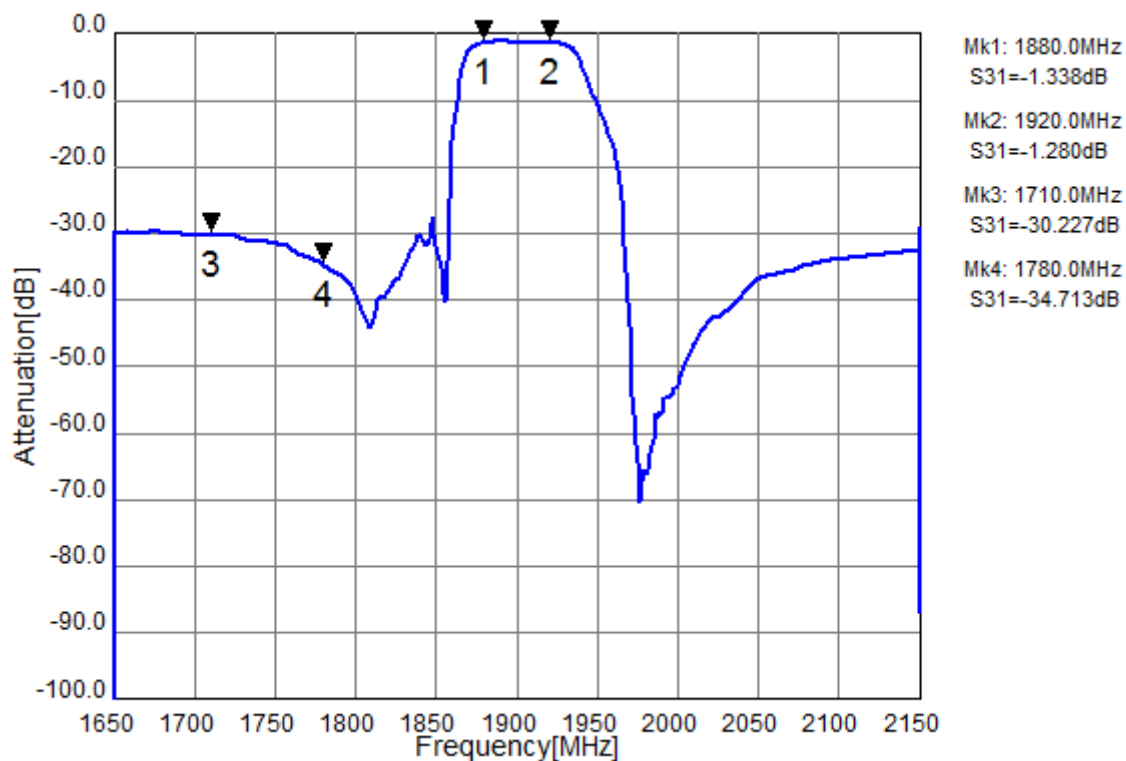
\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Passband (Filter2)



**Figure 3-2. Electrical Characteristics**

These data exclude loss that comes from the test board.

**TAIYO YUDEN**



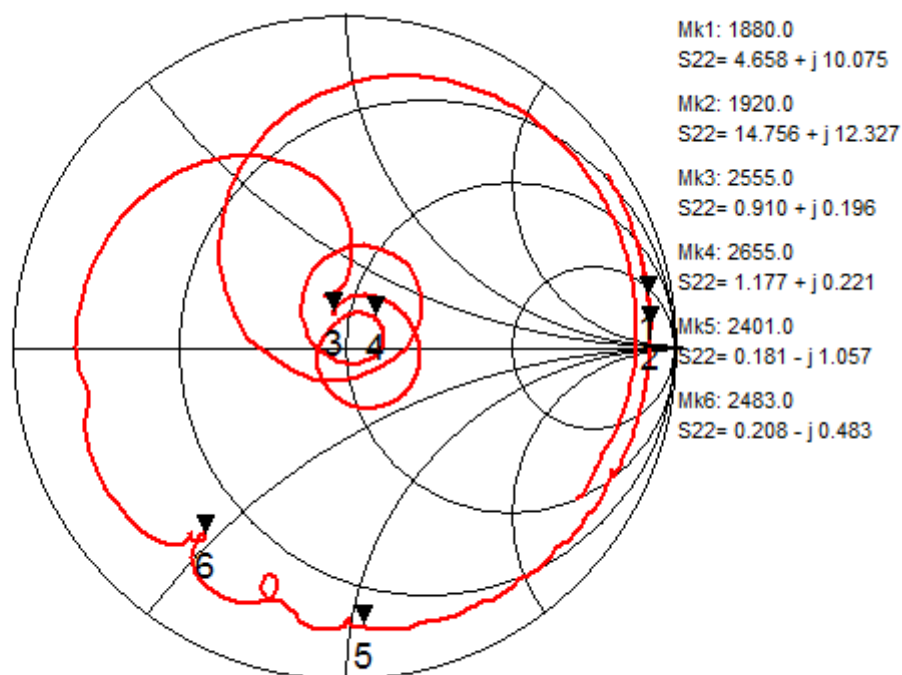
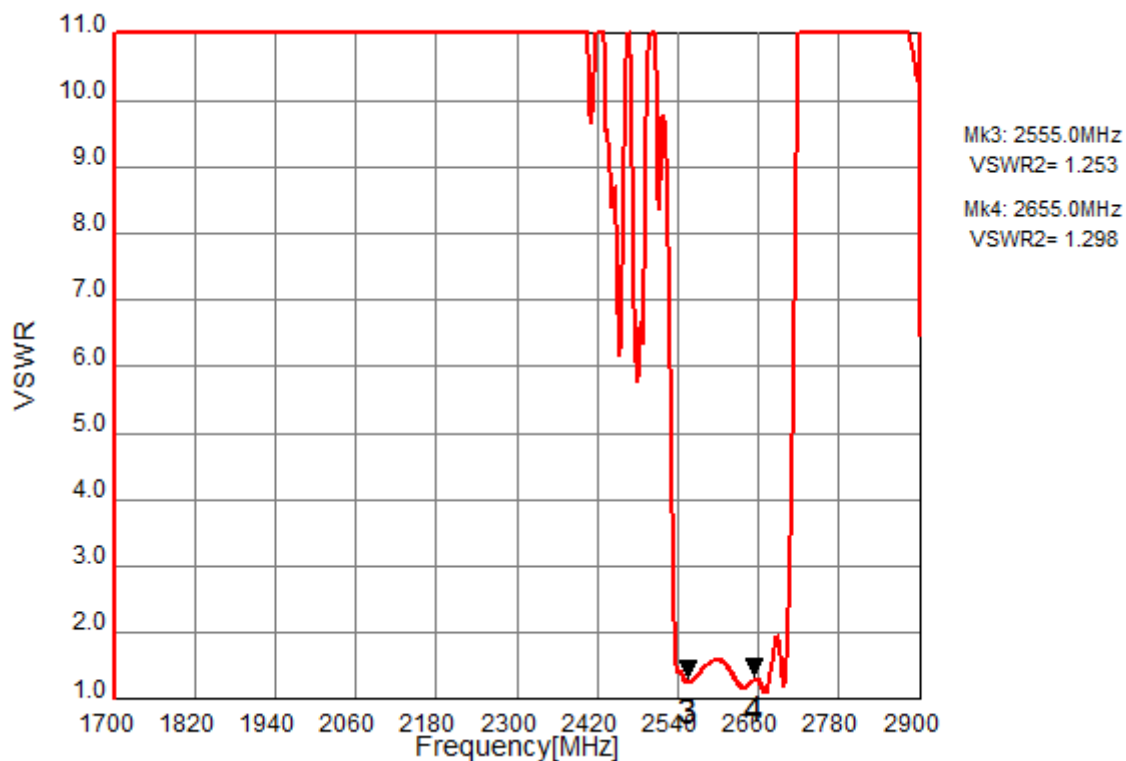
\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Output Port (Filter1)



**Figure 3-3. Electrical Characteristics**

**TAIYO YUDEN**



\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Output Port (Filter2)

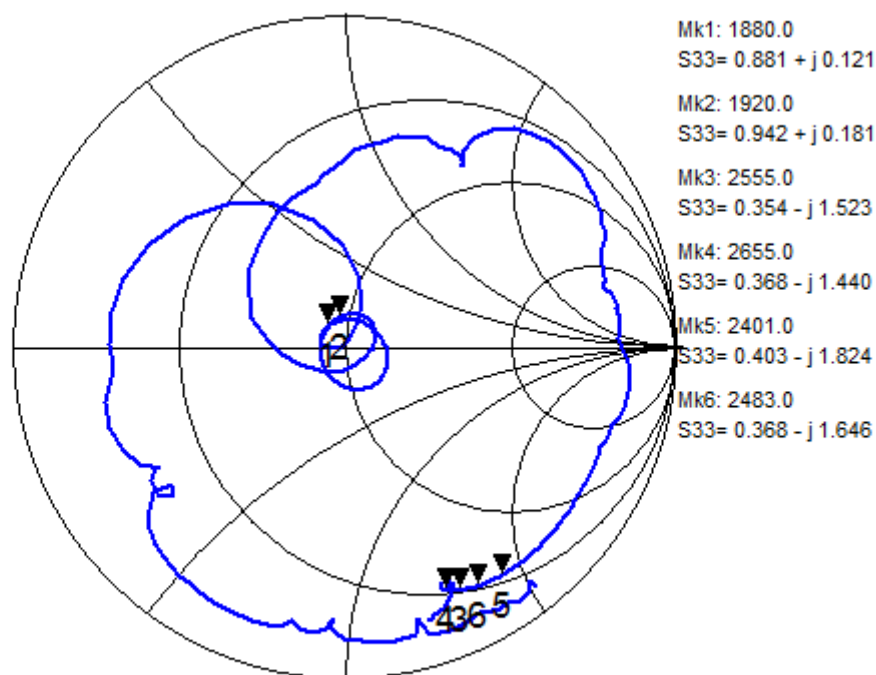
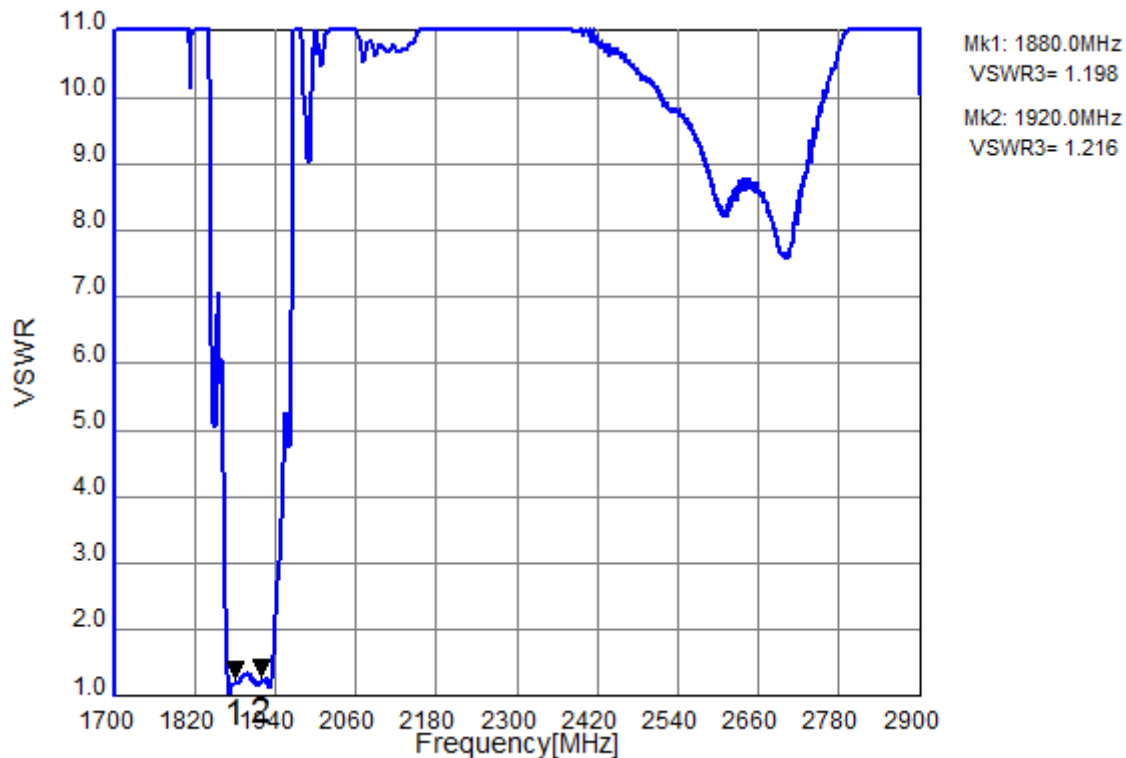


Figure 3-4. Electrical Characteristics



\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Input Port

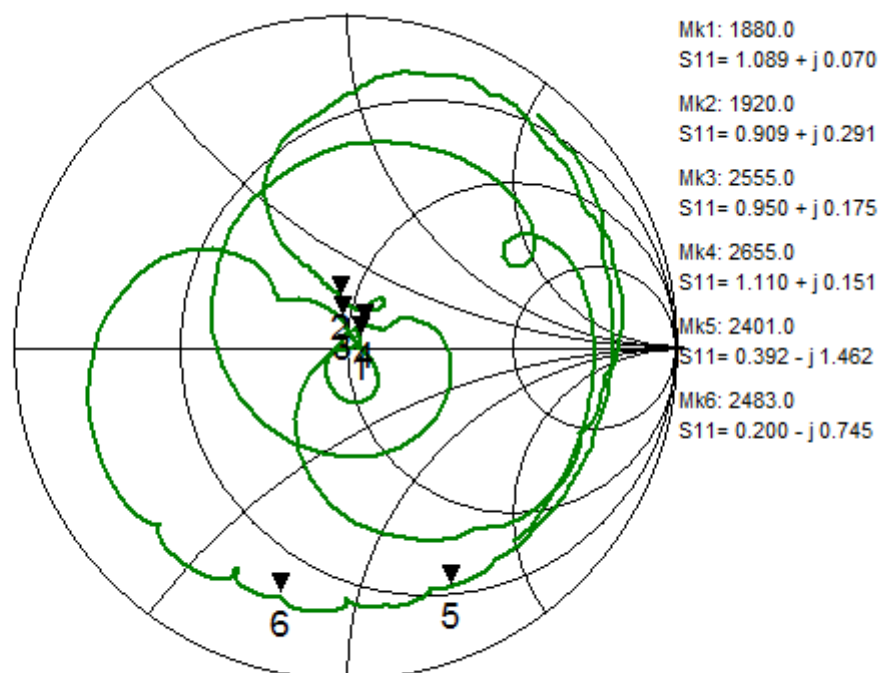
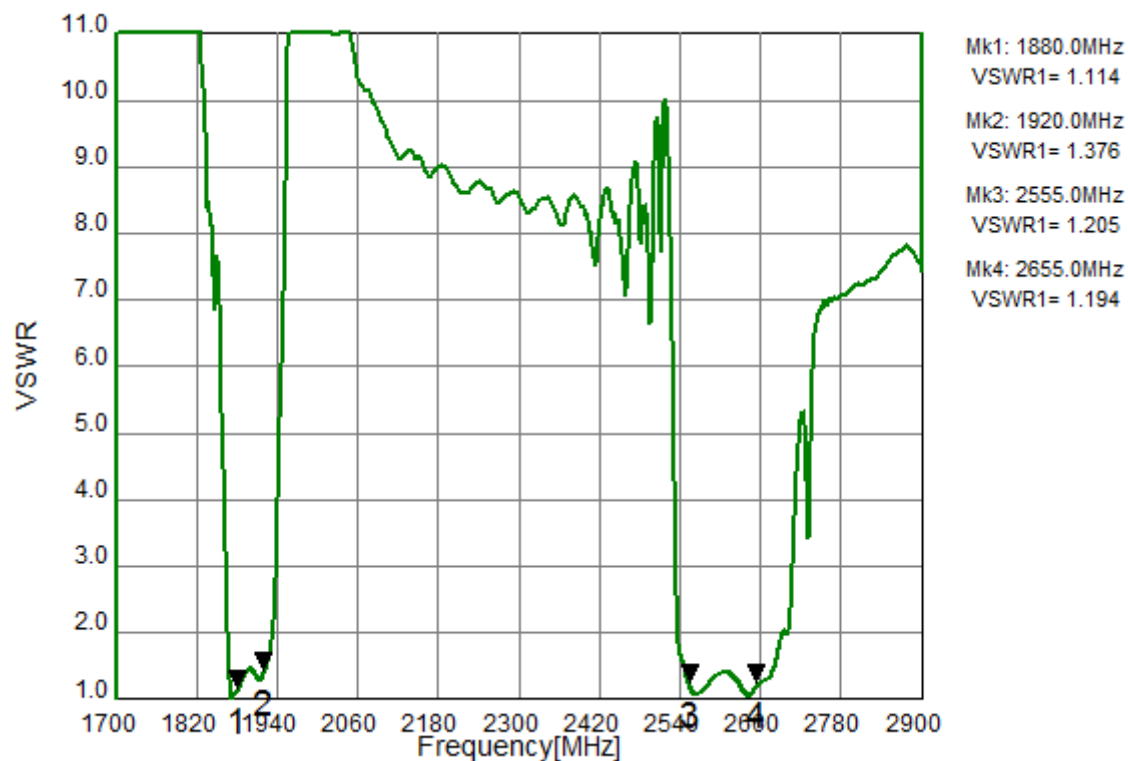


Figure 3-5. Electrical Characteristics

TAIYO YUDEN



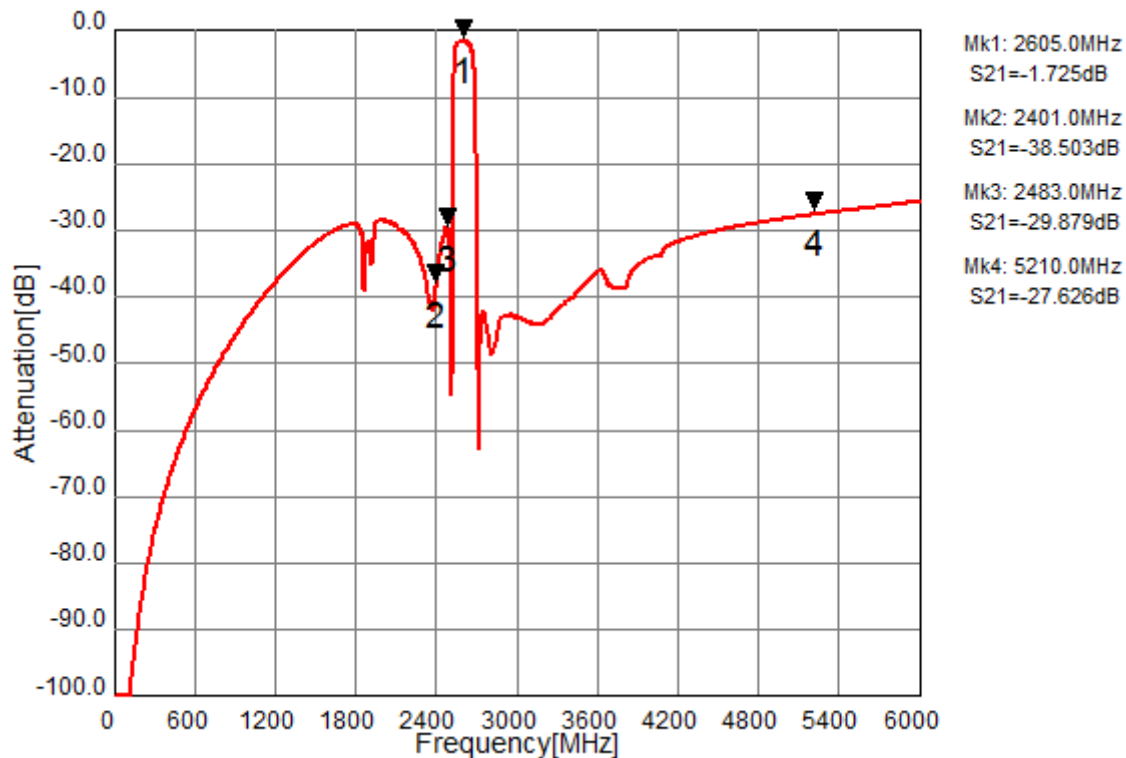
\* Pb Free Part



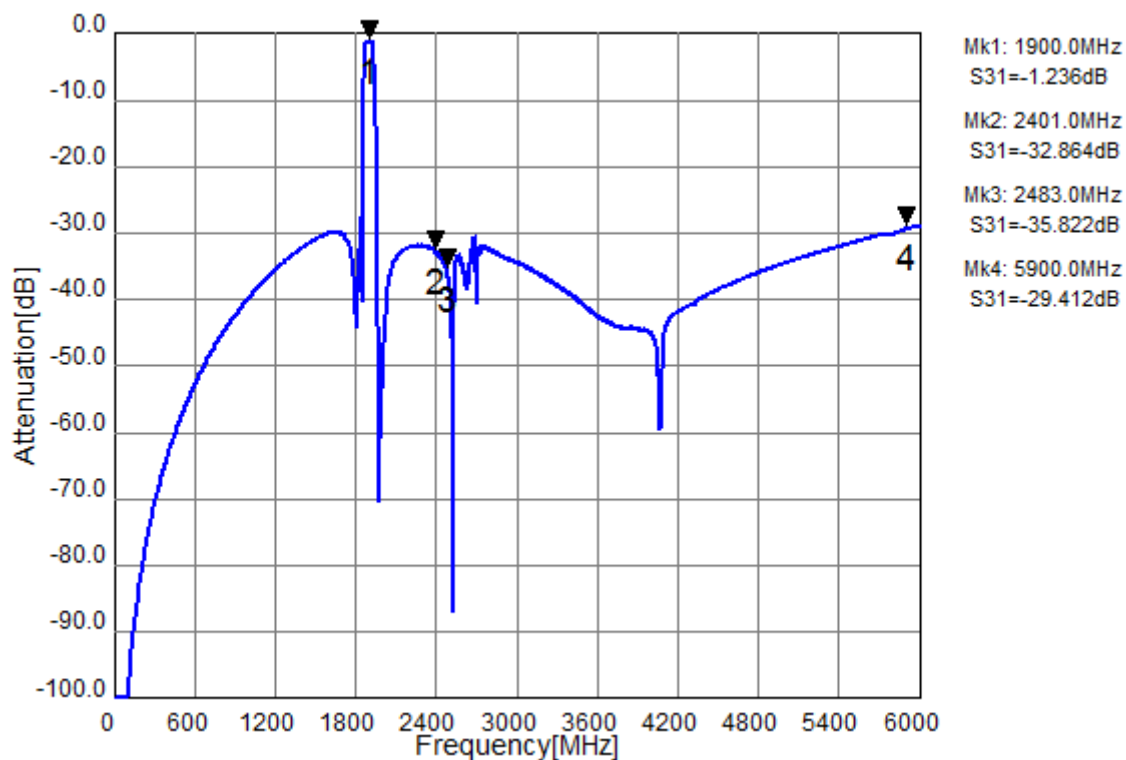
MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Wide span (Filter1)



## Wide span (Filter2)



**Figure 3-6. Electrical Characteristics**

**TAIYO YUDEN**



\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd	
System	Band41/Band39 1in2out Dual Rx Filter	DATE	Jan. 25, 2017
Part Number	G6QN2G605M2RM	Version 1.0aaA	Final

## Ordering Code

Ordering Code	Packing	Reel size	Status
G6QN2G605M2RM-J	Tape & Reel	5,000 pcs.	MP
G6QN2G605M2RM-JA	Tape & Reel	less than 5,000 pcs.	MP
G6QN2G605M2RM-Y	Tape & Reel	15,000 pcs.	MP
G6QN2G605M2RM-YA	Tape & Reel	less than 15,000 pcs.	MP
G6QN2G605M2RM-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 our products in actual condition of mounting and operating environment before using our products.
- The products listed in this specification are intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC). Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment, highly public information network equipment including, without limitation, telephone exchange, and base station). Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, nuclear control equipment, undersea equipment, military equipment). When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary. Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this specification for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.
- Please note that TAIYO YUDEN shall have no responsibility for any controversies or disputes that may occur in connection with a third party's intellectual property rights and other related rights arising from use of our products. TAIYO YUDEN grants no license for such rights.
- Please note that unless otherwise agreed in writing, the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a fault or defect in our products.
- The contents of this specification are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this specification are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.
- Caution for Export,  
Some of our products listed in this specification may require specific procedures for export according to "U.S. Export Administration Regulations", "Foreign Exchange and Foreign Trade Control Law" of Japan, and other applicable regulations. Should you have any questions on this matter, please contact our sales staff.

**TAIYO YUDEN**