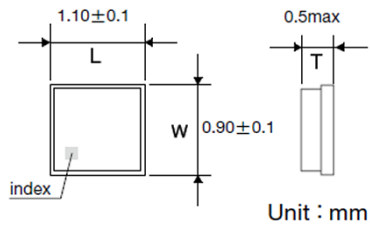


FBAR/SAW Devices (SAW Type)

F6QP2G355R2SE



■ Features

- Item Summary
SAW, Rx Type, 1.1x0.9x0.5mm
Band30
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 5000 , 15000pcs

■ Products characteristics table

System	W-CDMA / LTE
Type	SAW
Function	Rx Type
band	Band30
Insertion Loss (typ)	2.1 dB
Attenuation (typ)	50 dB
Operating Temp. Range	-20 to +85 °C
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	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

2017.11.17

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



MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Table 1. Electrical Specification

Item	Condition (MHz)	Specification			Unit	Remarks	
		Min.	Typ.	Max.			
Insertion Loss	2350 - 2360	-	2.1	2.9	dB ^(*1)		
Ripple	2350 - 2360	-	0.3	1.2	dB		
VSWR	Input	2350 - 2360	-	1.6	2.0	-	
	Output	2350 - 2360	-	1.5	2.0	-	
Input Power	2350 - 2360	+20dBm Ta=+50°C 5000h, CW			-		
Absolute attenuation	1 - 2305	35	41	-	dB		
	2305 - 2315	39	50	-	dB		
	2400 - 2500	35	38	-	dB		
	2500 - 2570	40	43	-	dB		
	2570 - 6000	22	32	-	dB		
Terminating Impedance	Input port	50			Ω		
	Output port	50			Ω		
Operating Temperature		-20 to +85			°C		
Maximum DC in all ports		-	-	3	VDC	Device only	
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.

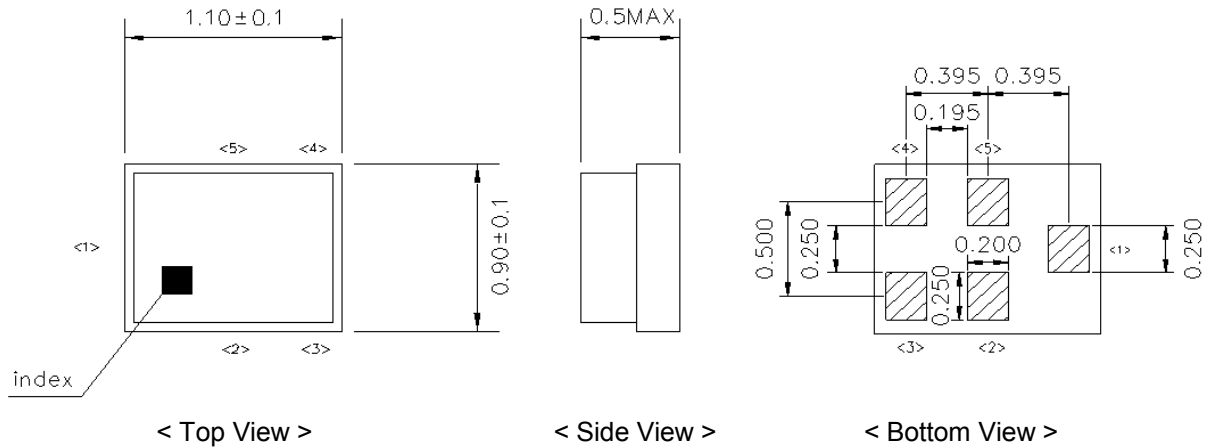


MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Dimensions



Unit : mm

Pin assignment

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

Figure 1. Dimensions and Pin assignment

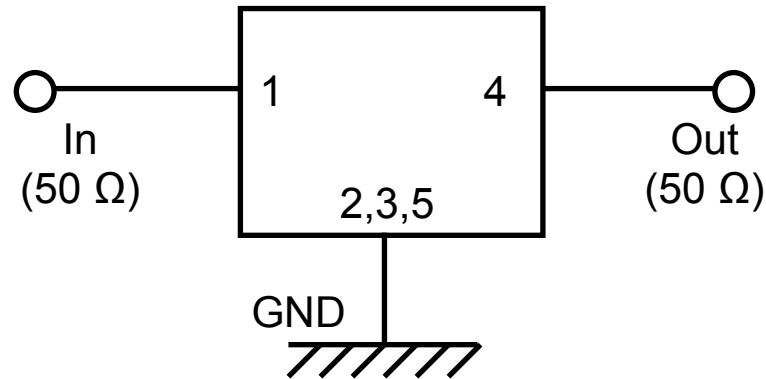


MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Evaluation Circuit



Recommended foot print pattern

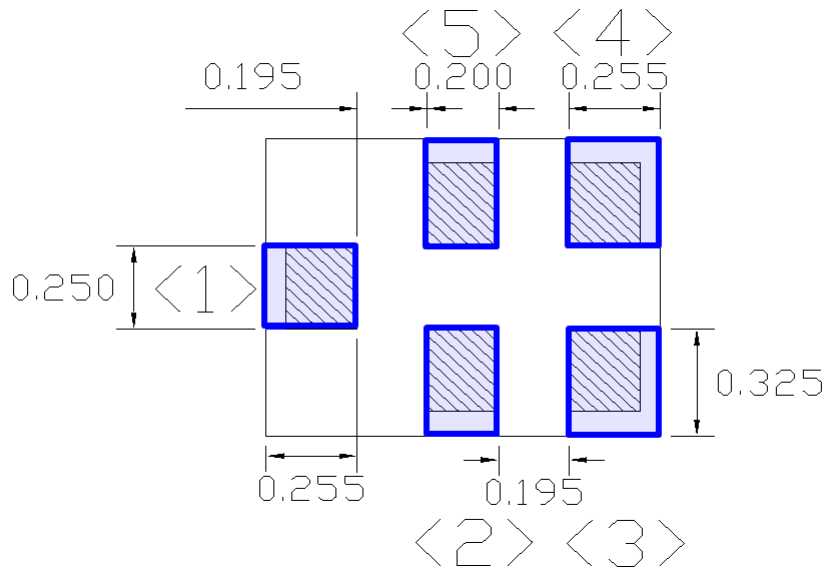


Figure 2. Recommended foot print pattern



MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Passband

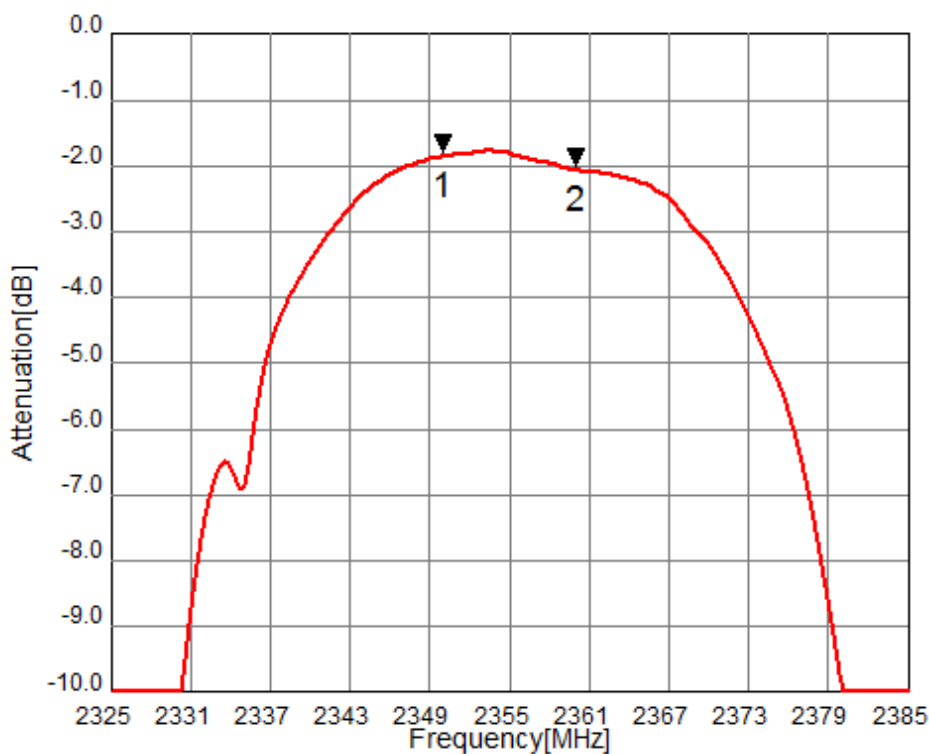
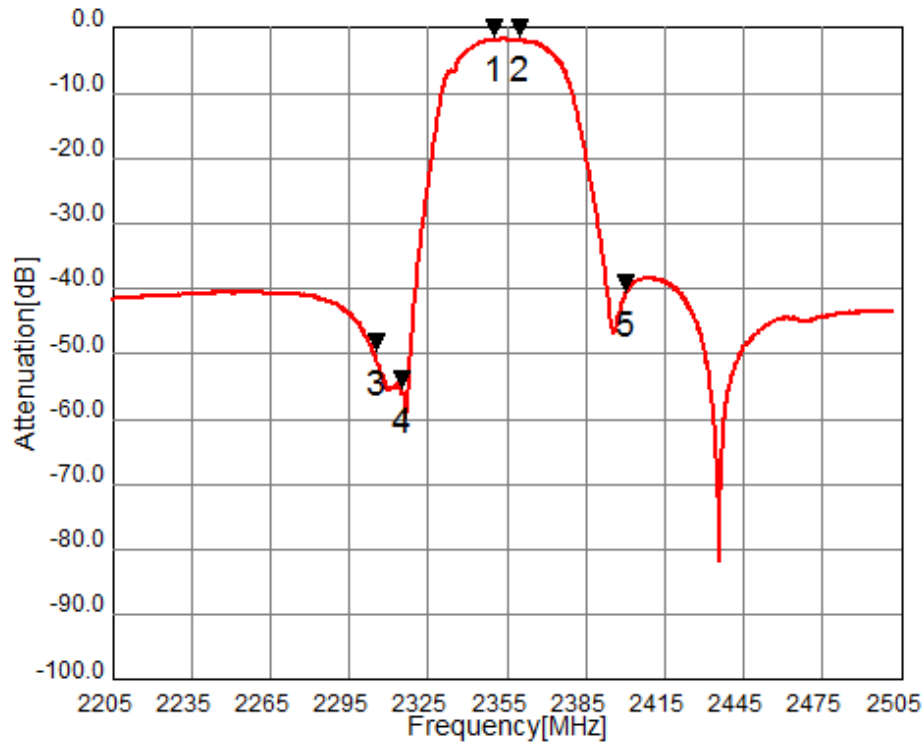


Figure 3-1. Electrical Characteristics

These data excludes loss that comes from the test board.



MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Input Port

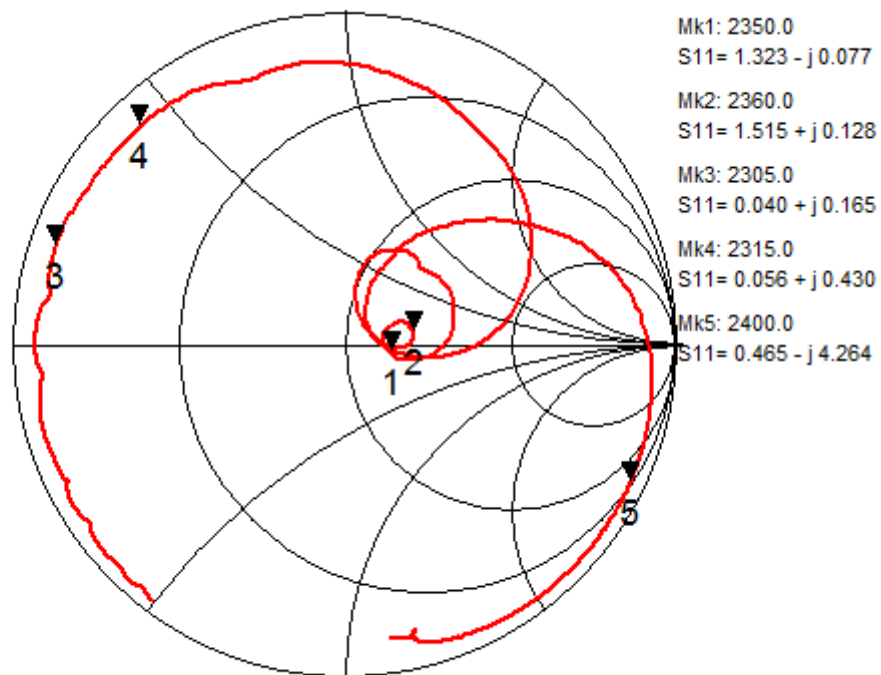
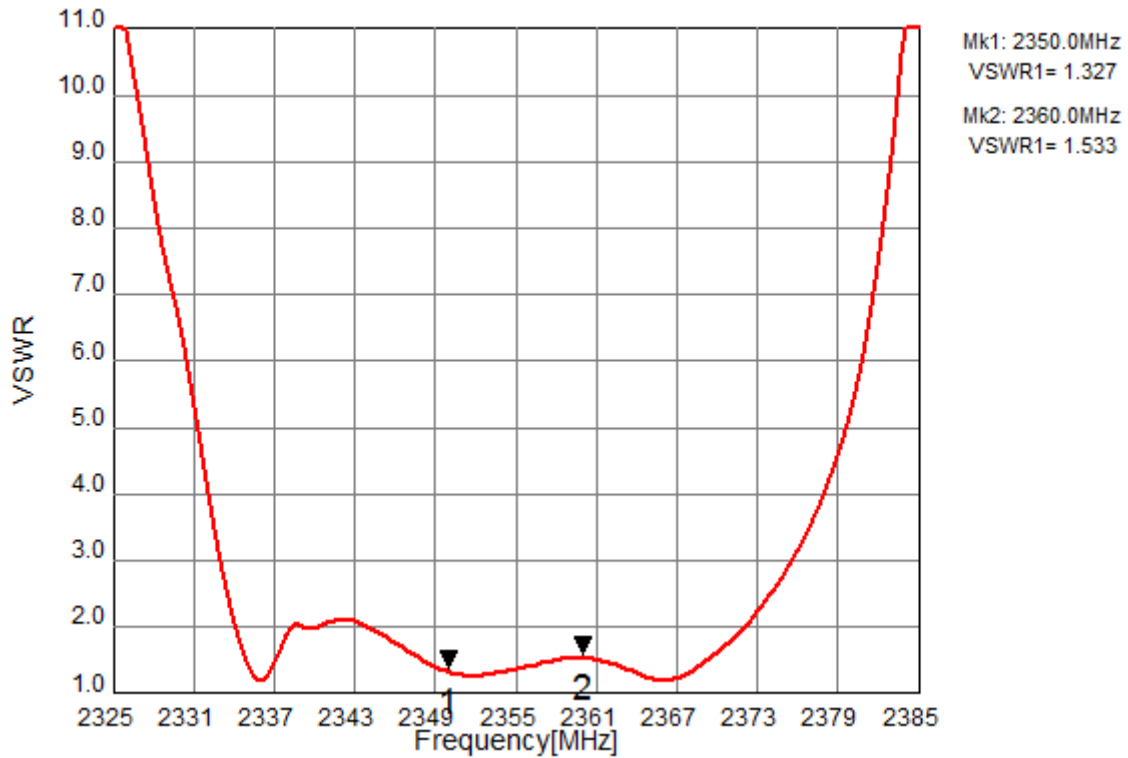


Figure 3-2. Electrical Characteristics



MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Output Port

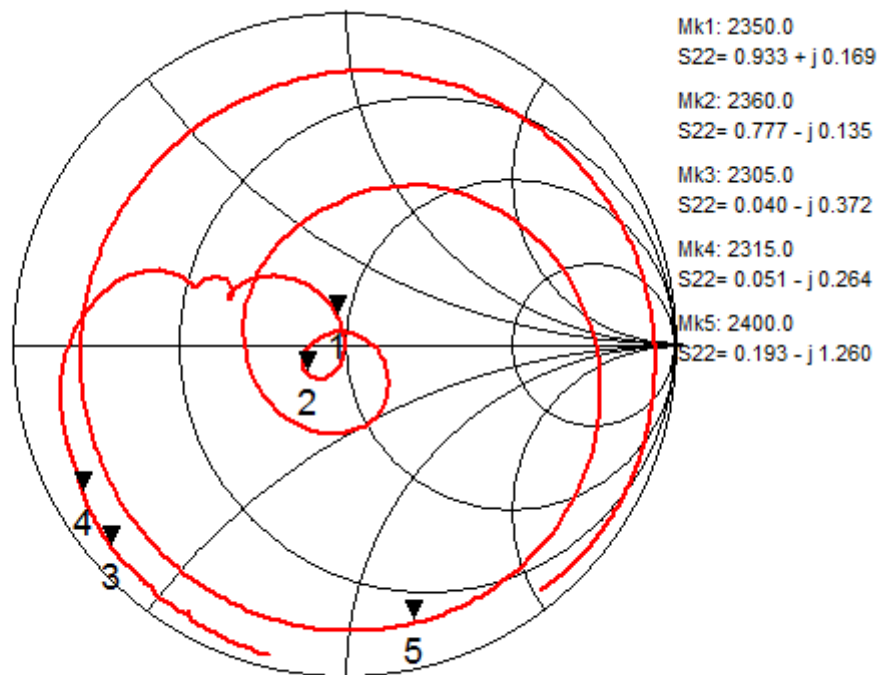
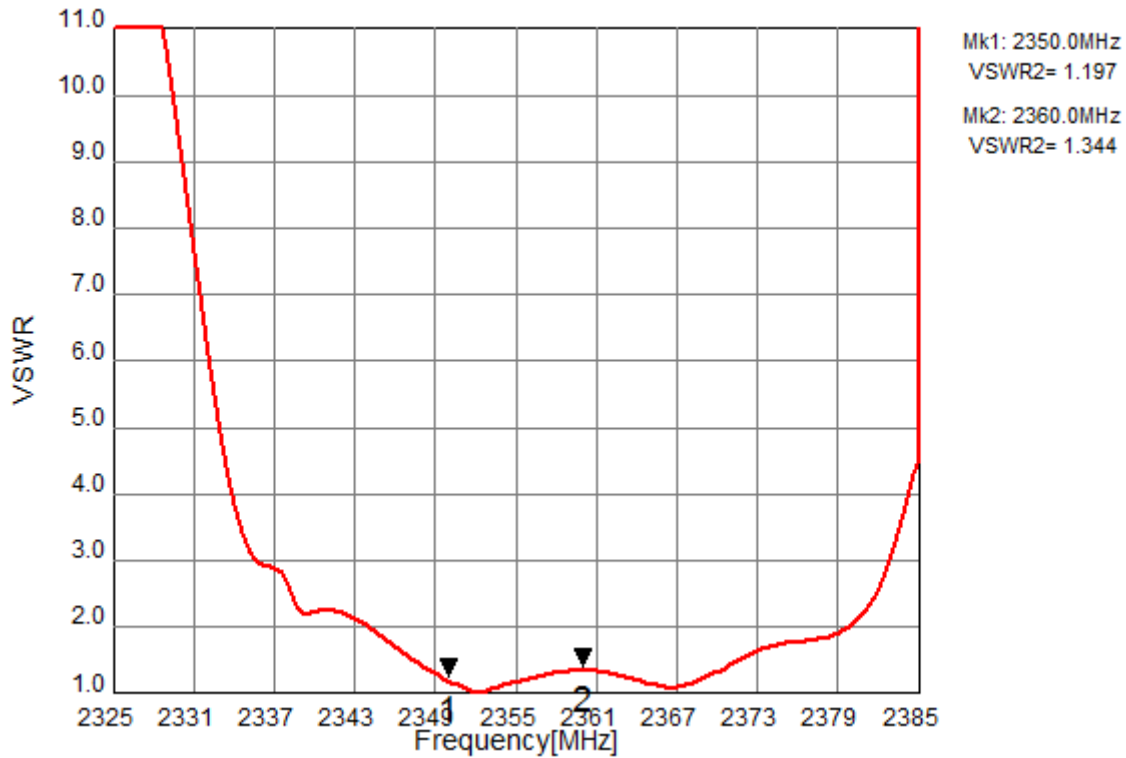


Figure 3-3. Electrical Characteristics



MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Wideband

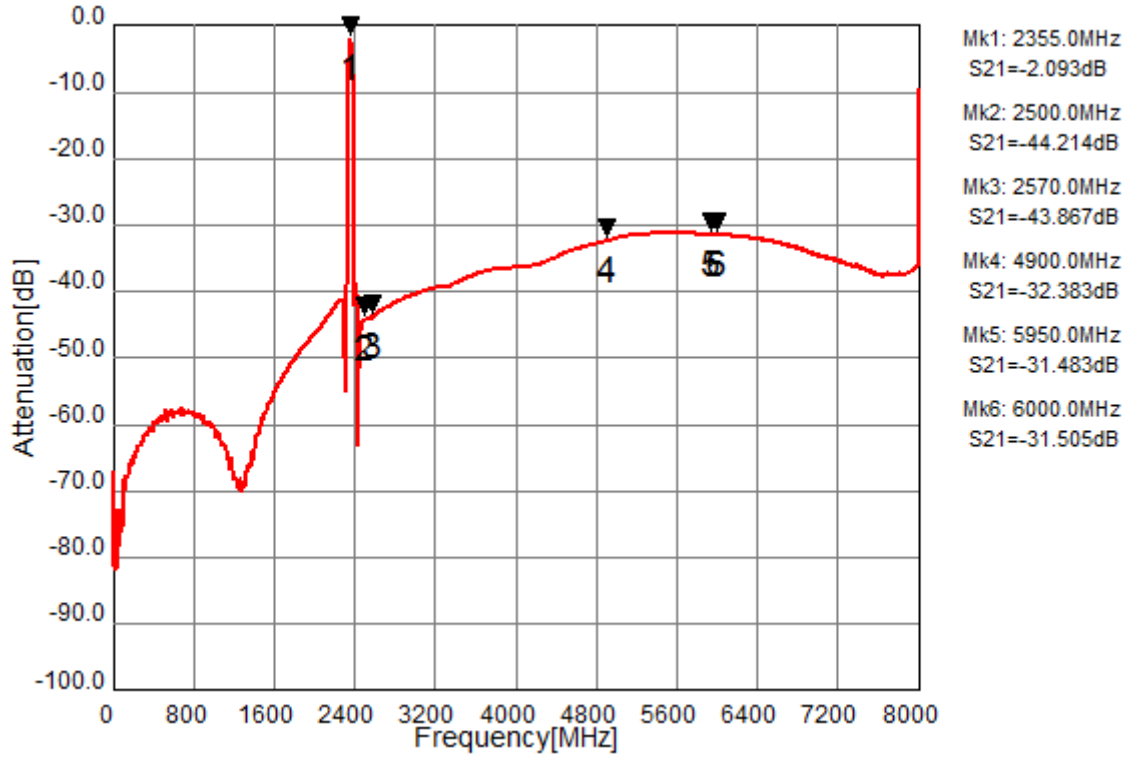


Figure 3-4. Electrical Characteristics



MSL1

*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
Part Number	F6QP2G355R2SE	Version 2.0bA	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
F6QP2G355R2SE- J	Tape & Reel	5,000pcs.	MP
F6QP2G355R2SE- JA	Tape & Reel	less than 5,000 pcs.	MP
F6QP2G355R2SE- Y	Tape & Reel	15,000pcs	MP
F6QP2G355R2SE- YA	Tape & Reel	less than 15,000pcs	MP
F6QP2G355R2SE- 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.

Please read this notice before using the TAIYO YUDEN products.



REMINDERS

- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The product listed in this spec sheet is 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 classified as Class I, II or III by IMDRF, 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, medical equipment classified as Class IV by IMDRF, 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 product listed in this spec sheet for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.
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