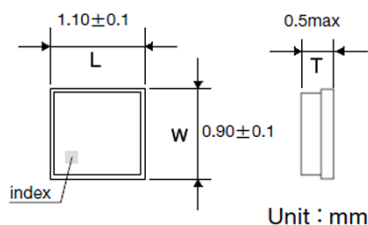


## FBAR/SAW Devices (SAW Type)

## 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

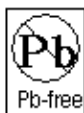
System	W-CDMA / LTE
Type	SAW
Function	Rx Type
band	Band30
Insertion Loss (typ)	2.1 dB
Attenuation (typ)	50 dB
Operating Temp. Range	-20 to +85 °C
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

## ■ External Dimensions

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

2017.08.31

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.



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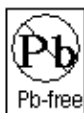
\*Pb Free part

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.

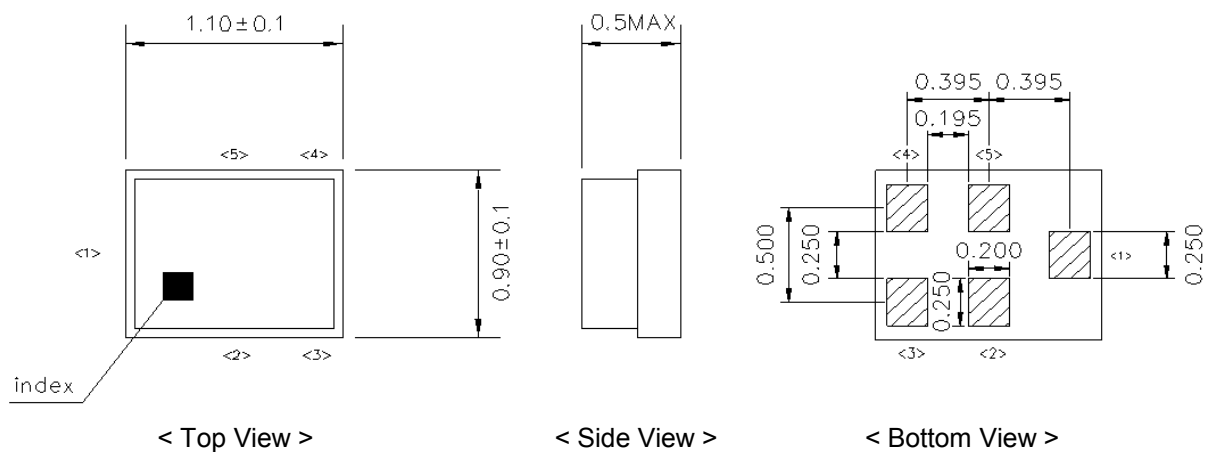


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\*Pb Free part

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

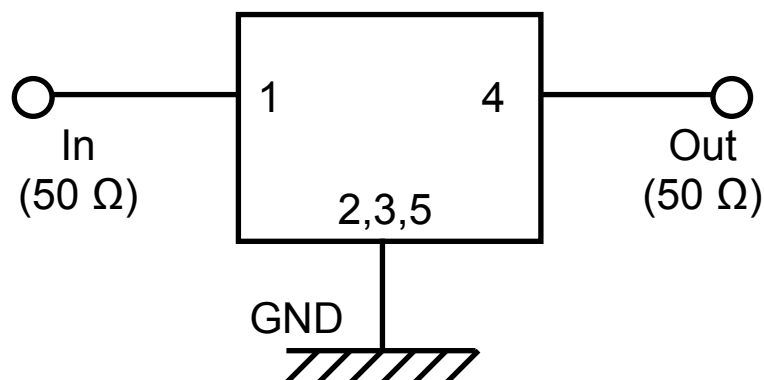


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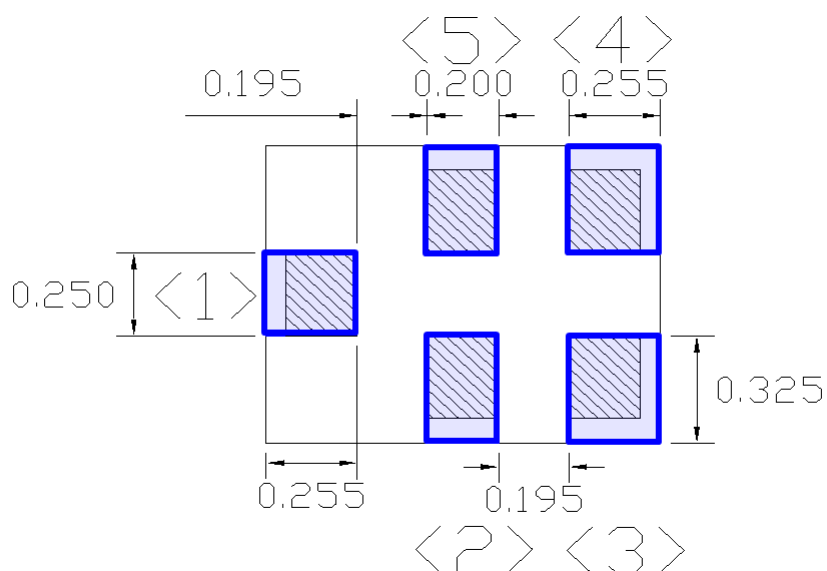
\*Pb Free part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band30 Rx Filter	DATE	Nov. 5, 2015
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### Evaluation Circuit



### Recommended foot print pattern



**Figure 2. Recommended foot print pattern**

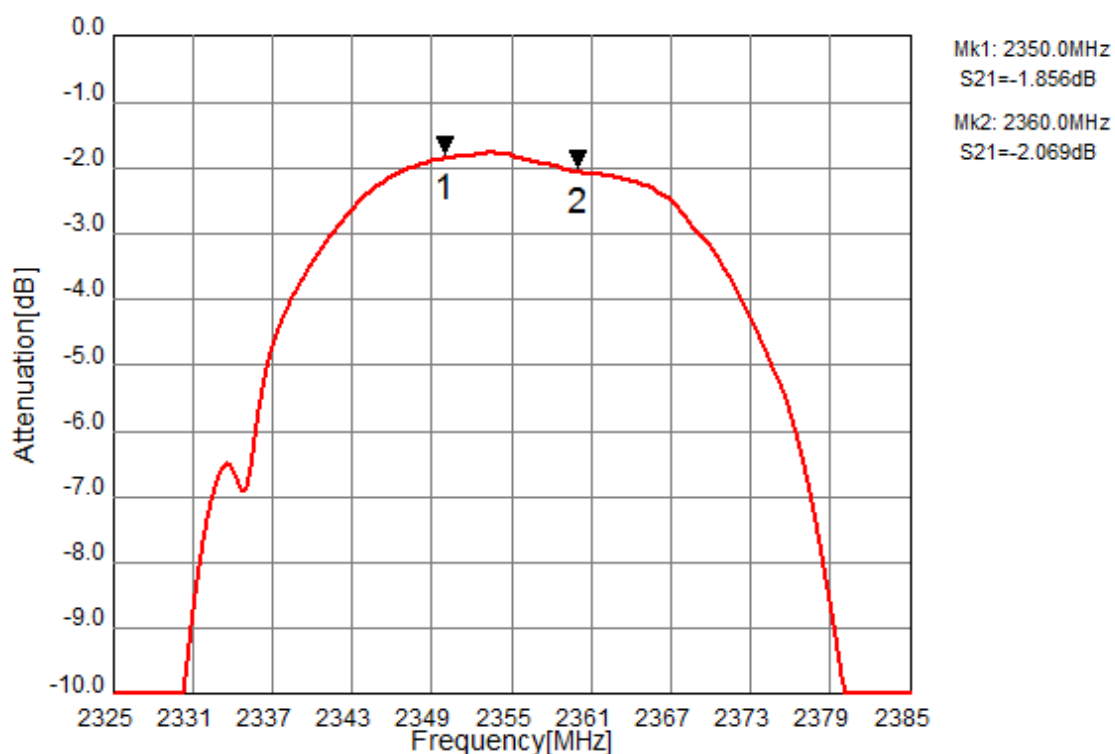
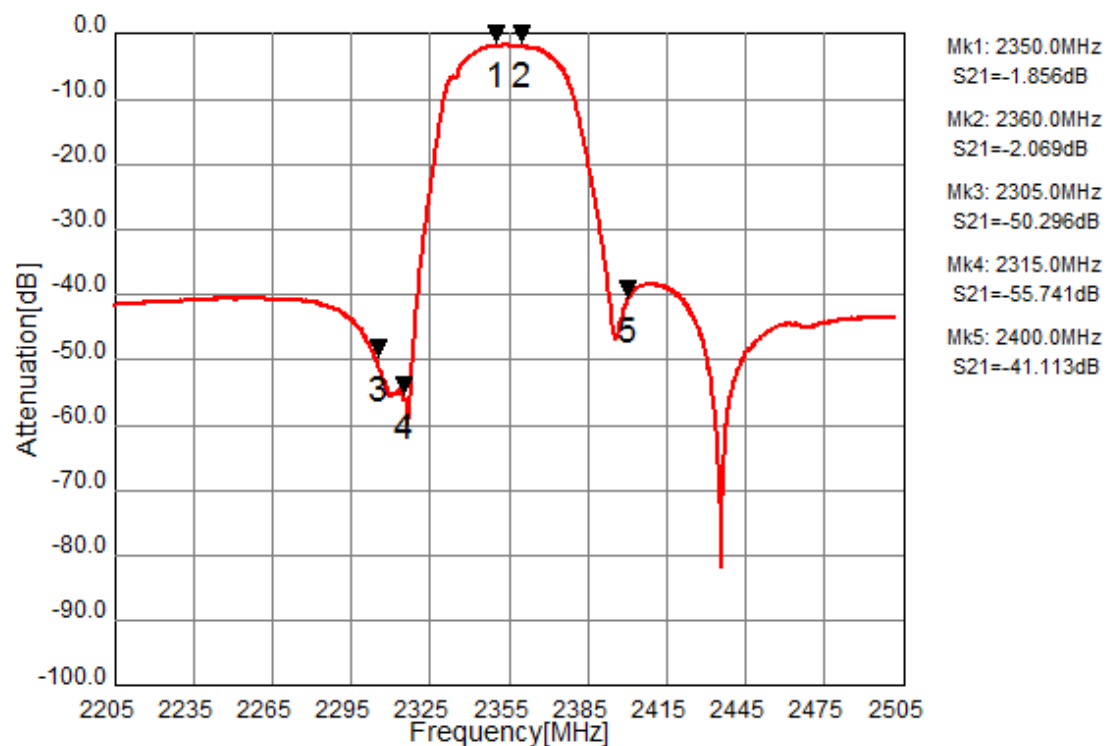


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\*Pb Free part

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

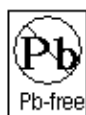
## Passband



**Figure 3-1. Electrical Characteristics**

These data excludes loss that comes from the test board.

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\*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

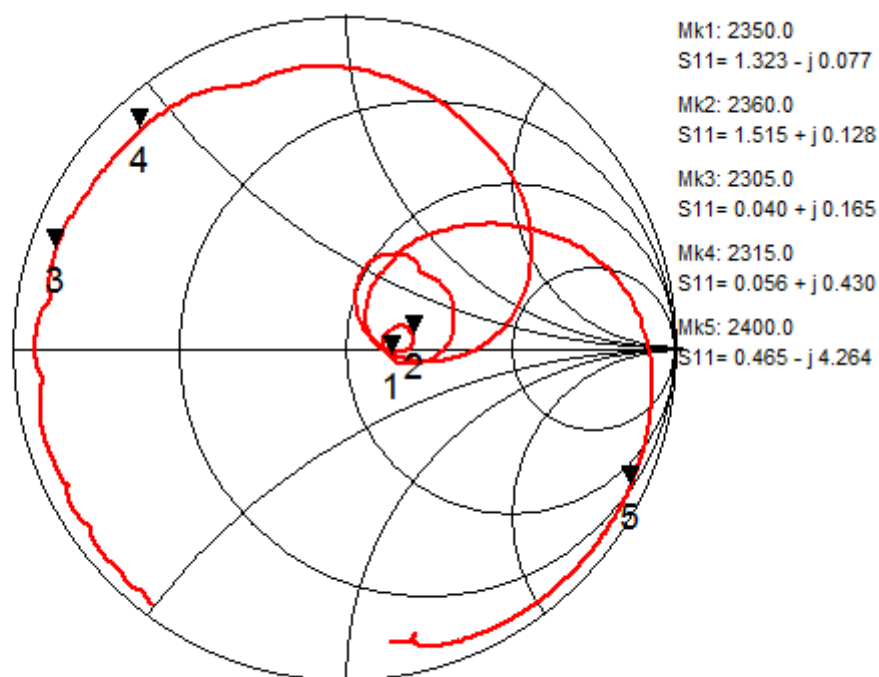
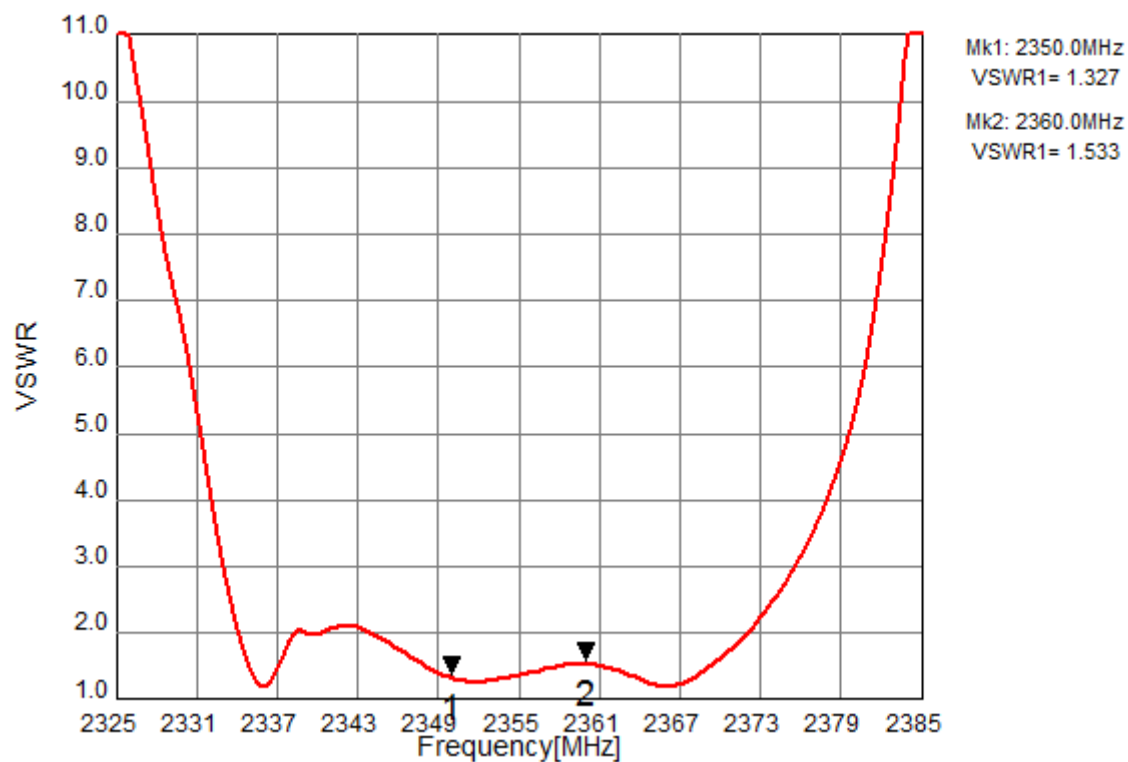
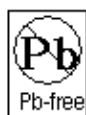


Figure 3-2. Electrical Characteristics

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\*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

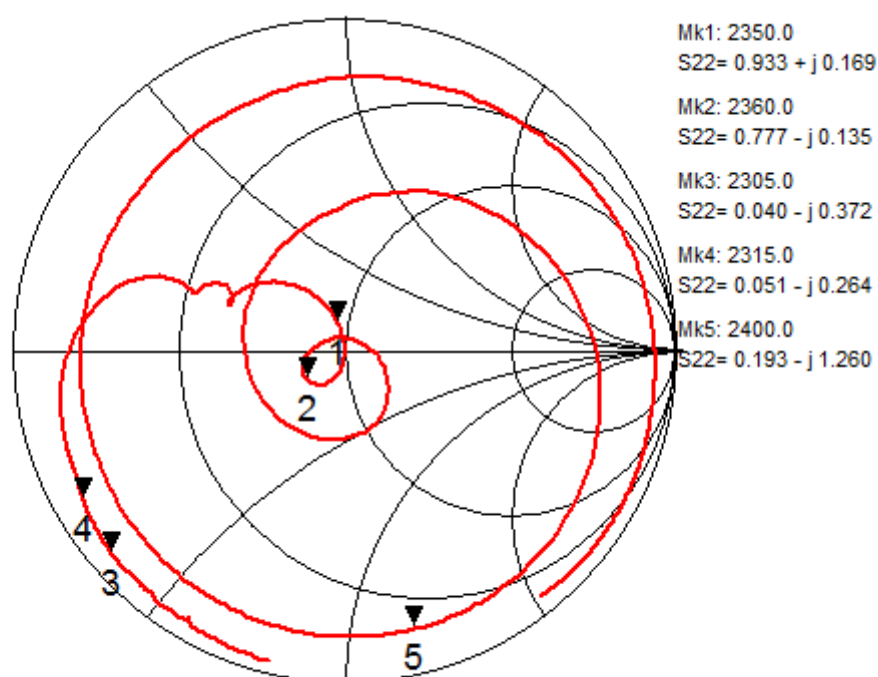
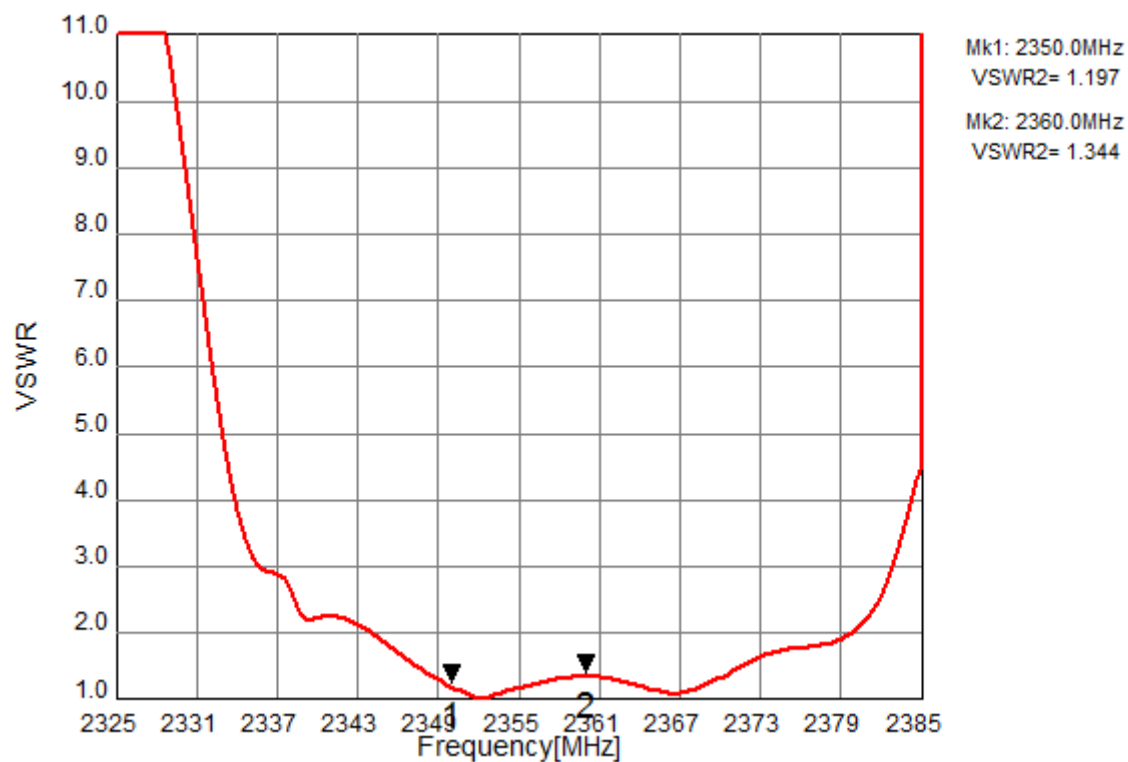
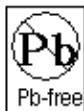


Figure 3-3. Electrical Characteristics

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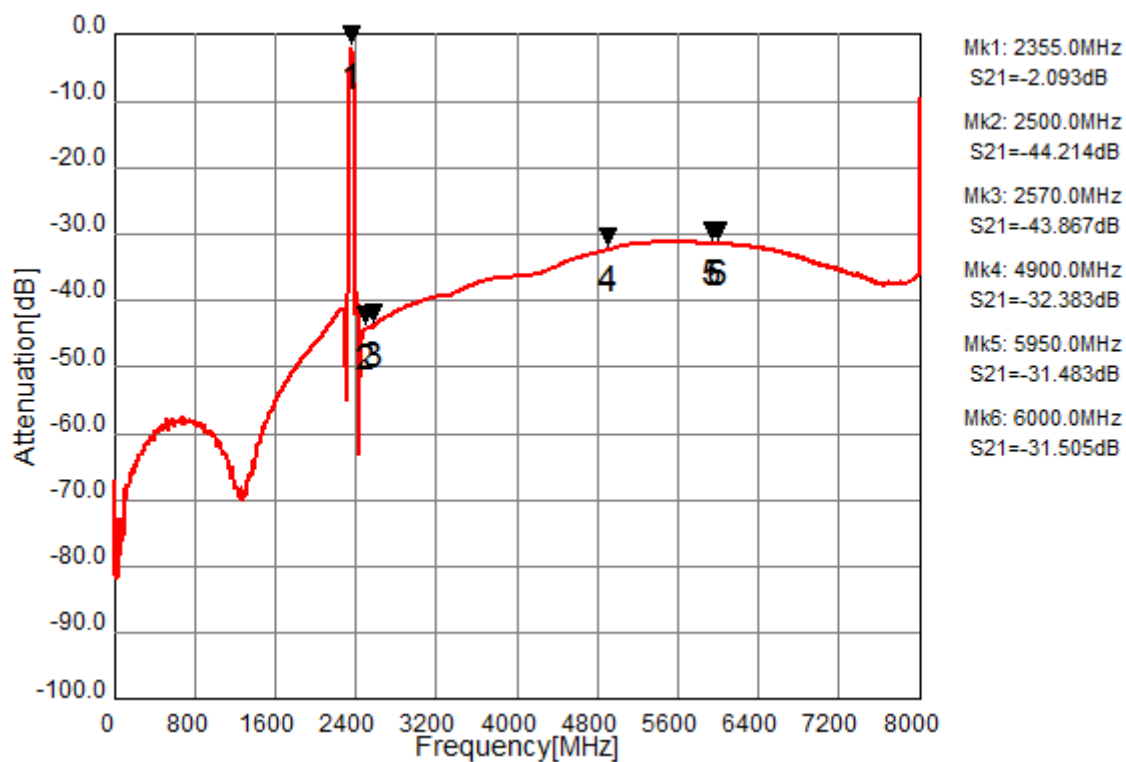


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\*Pb Free part

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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.

**TAIYO YUDEN**

# Mouser Electronics

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