



* Pb Free Part



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band 34 DRx Filter	Date	Mar. 16, 2018
Part Number	F6QP2G017R2SF	Version 1.1aA	Final

Table 1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks
			Min.	Typ.	Max.		
Insertion loss (*1)		2010 - 2025	-	1.3	1.7	dB(*1)	
Ripple		2010 - 2025	-	0.2	0.7	dB	
VSWR	Input	2010 - 2025	-	1.5	2.0	-	
	Output	2010 - 2025	-	1.3	2.0	-	
Input power		2010 - 2025	-	-	15	dBm	
Absolute attenuation		10 - 1925	37	43	-	dB	
		824 - 894	40	45	-	dB	
		880 - 960	40	45	-	dB	
		1710 - 1880	41	44	-	dB	
		1880 - 1920	42	46	-	dB	
		1920 - 1955	42	50	-	dB	
		1955 - 1980	18	39	-	dB	
		2050 - 2085	2.5	4.2	-	dB	
			3.5	-	-	dB	@+23 to 27°C
		2085 - 2110	37	51	-	dB	
		2110 - 2170	40	52	-	dB	
		2300 - 2400	33	45	-	dB	
		2400 - 2500	36	45	-	dB	
		2496 - 2690	41	45	-	dB	
		2555 - 2655	42	45	-	dB	
		4020 - 4050	30	52	-	dB	
		4900 - 5950	32	55	-	dB	
Terminal Impedance		Input port	50			Ω	
		Output port	50			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. xW typ. xH max.)		1.1 x 0.9 x 0.5				mm	

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



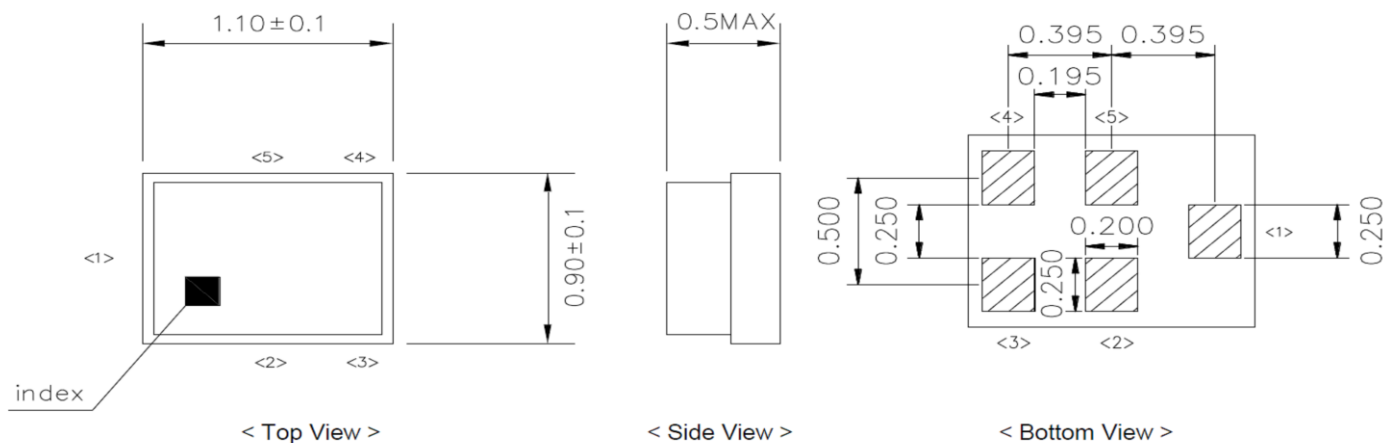
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Dimensions



Unit: mm

Figure 1. Dimensions

Pin Assignment

Table 2. Pin Assignment

Pin No.	Pin name	Description
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground



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Evaluation Circuit

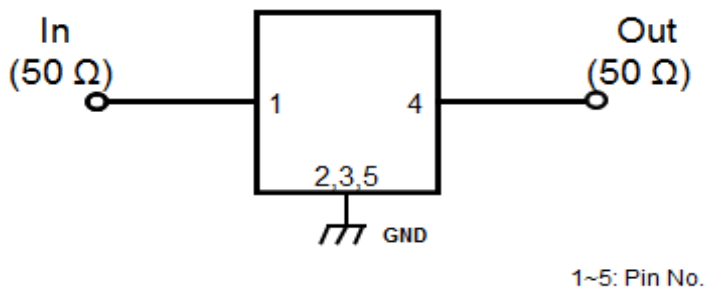


Figure 2. Evaluation Circuit

Recommended Foot Print Pattern

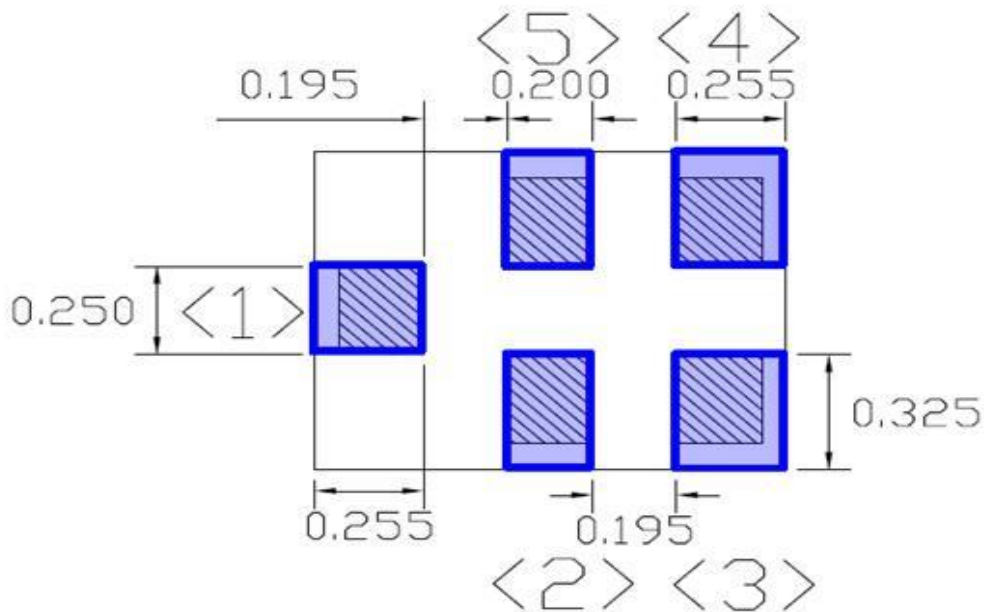


Figure 3. Recommended Foot Print Pattern



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Passband

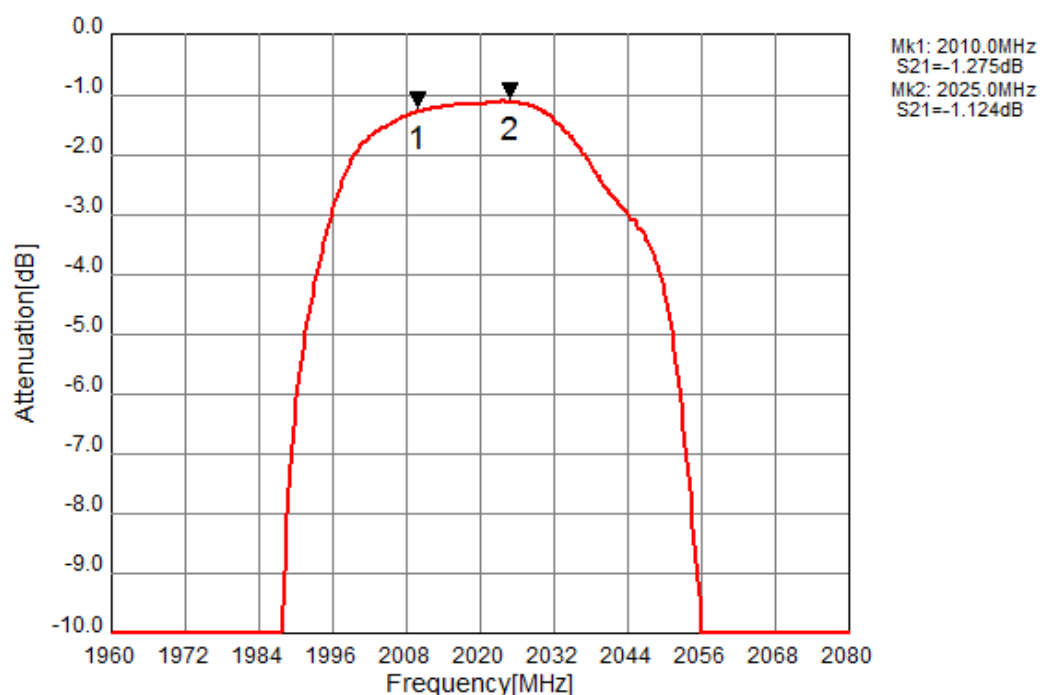
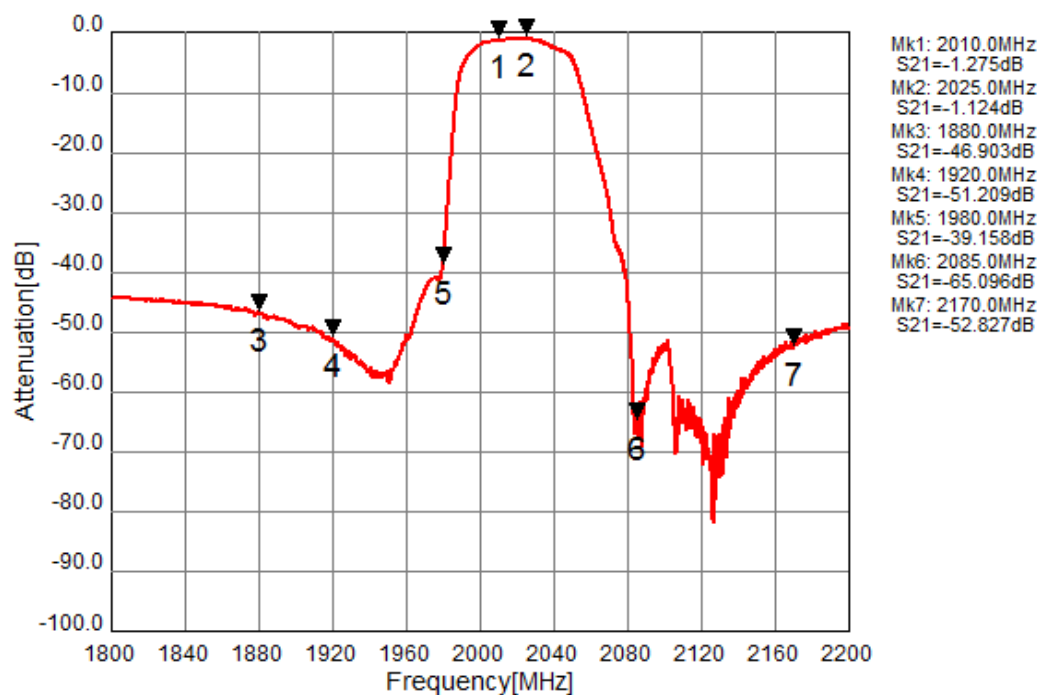


Figure 4-1. Electrical Characteristics

These data excludes loss that comes from the test board

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Input Port

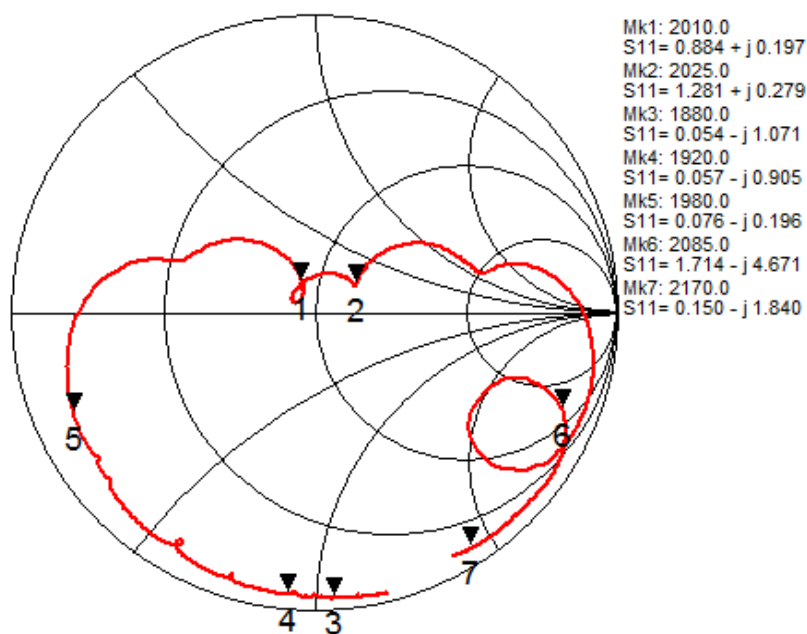
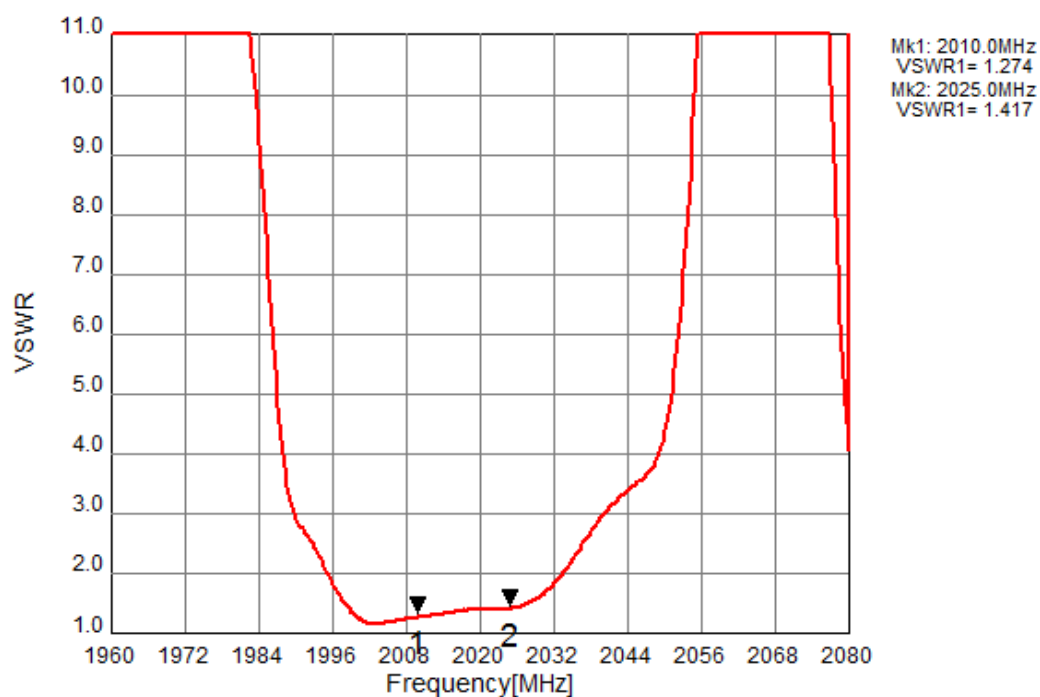


Figure 4-2. Electrical Characteristics



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Output Port

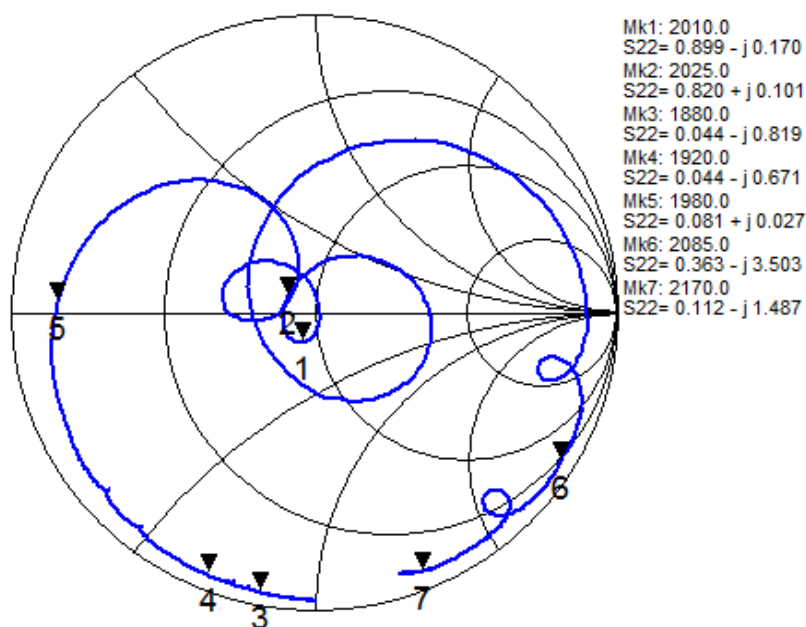
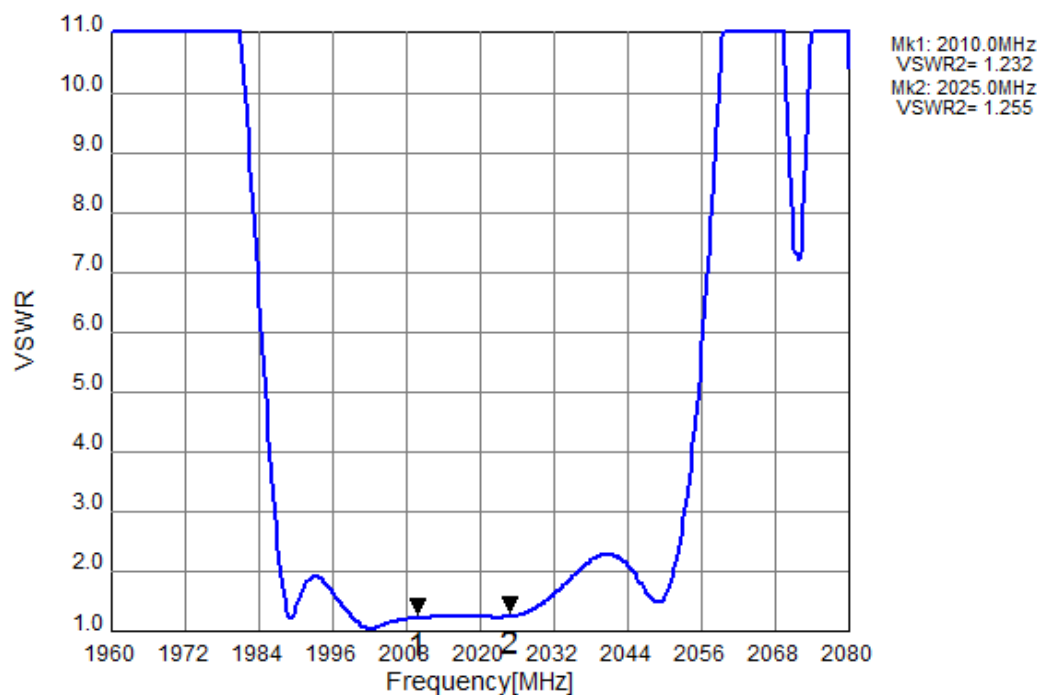


Figure 4-3. Electrical Characteristics



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Wide span

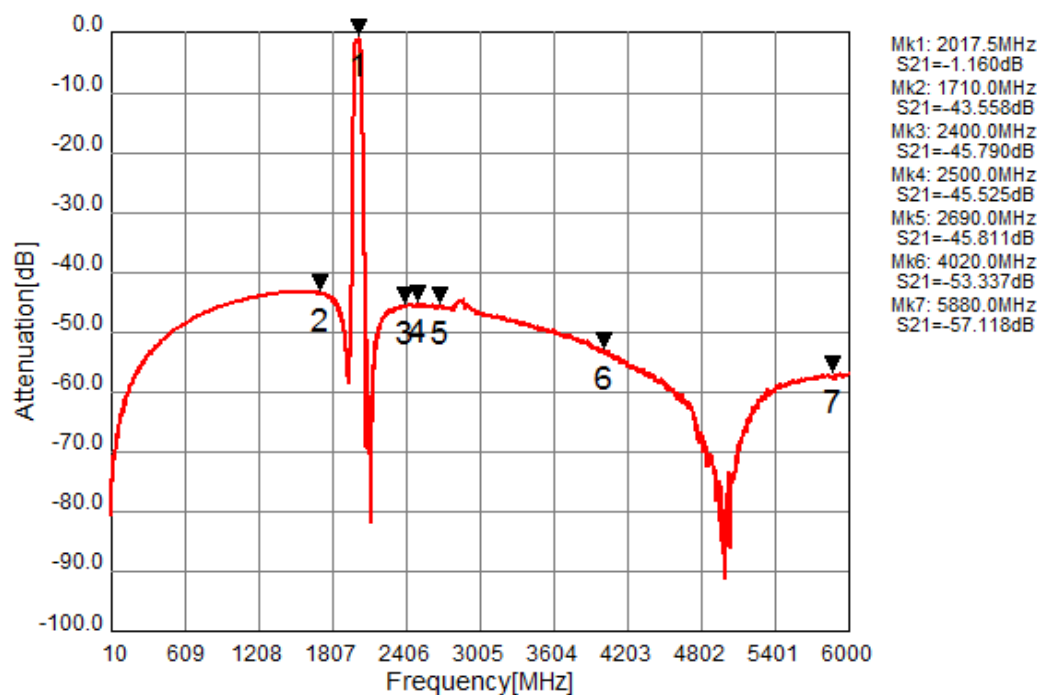


Figure 4-4. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6QP2G017R2SF-X	Tape & Reel	10,000 pcs.	MP
F6QP2G017R2SF-XA	Tape & Reel	less than 10,000 pcs.	MP
F6QP2G017R2SF-Q	Bulk	few pcs.	MP
F6QP2G017R2SF-Y	Tape & Reel	15,000 pcs.	MP
F6QP2G017R2SF-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QP2G017R2SF-J	Tape & Reel	5,000 pcs.	MP
F6QP2G017R2SF-JA	Tape & Reel	less than 5,000 pcs.	MP

*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives.

*MP : Mass Production



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- 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 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.
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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.