



* Pb Free Part



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band 34 Tx/Rx Filter	Date	Feb. 05, 2018
Part Number	F6FC2G017H4PC	Version 2.1bA	Final

Table 1. Electrical Specification

Item	Condition (MHz)	Specification			Unit	Remarks	
		Min.	Typ.	Max.			
Insertion loss (*1)	2010 - 2025	-	1.1	1.7	dB(*1)		
Ripple	2010 - 2025	-	0.2	1.0	dB		
VSWR	Tx/Rx	2010 - 2025	-	1.2	1.7	-	
	Ant	2010 - 2025	-	1.2	1.7	-	
Input power	2010 - 2025	+29dBm CW (50% Duty cycle) 50°C,5000Hr			-		
Absolute attenuation	824 - 894	40	47	-	dB		
	880 - 960	40	46	-	dB		
	1710 - 1880	35	42	-	dB		
	1880 - 1920	42	47	-	dB		
	1920 - 1955	40	52	-	dB		
	1955 - 1980	18	30	-	dB		
	2110 - 2170	40	54	-	dB		
	2300 - 2400	38	47	-	dB		
	2400 - 2500	38	46	-	dB		
	4020 - 4050	30	44	-	dB		
6030 - 6075	20	37	-	dB			
Terminal Impedance	Tx/Rx port	50//8.2nH			Ω		
	Ant port	50//15nH			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 0.44			mm		

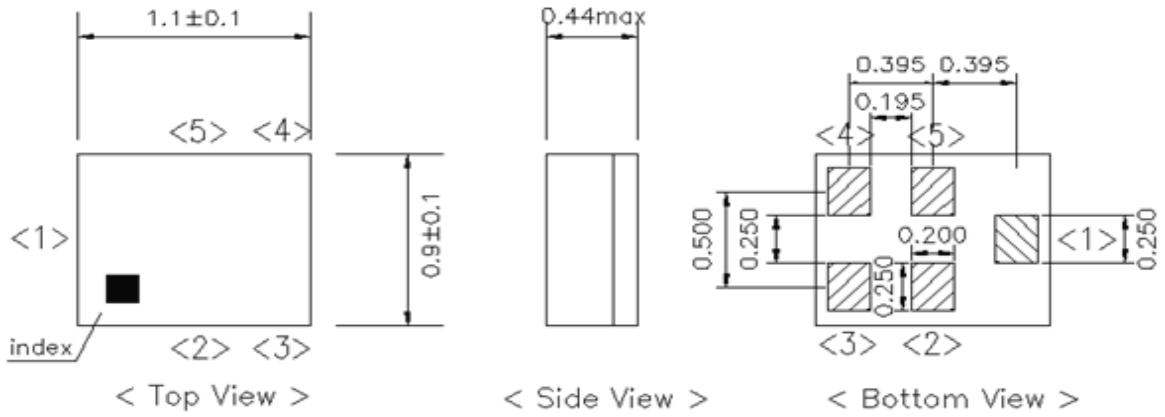
(*1) Specification of insertion loss excludes loss that comes from the test board.



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Dimensions



Unit: mm

Figure 1. Dimensions

Pin Assignment

Table 2. Pin Assignment

Pin No.	Pin name	Description
1	Tx/Rx	Transmitter/Receiver
2	GND	Ground
3	GND	Ground
4	ANT	Antenna
5	GND	Ground



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Evaluation Circuit

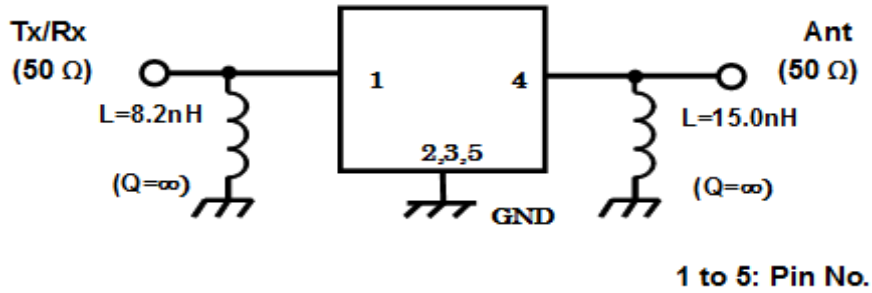


Figure 2. Evaluation Circuit

Recommended Foot Print Pattern

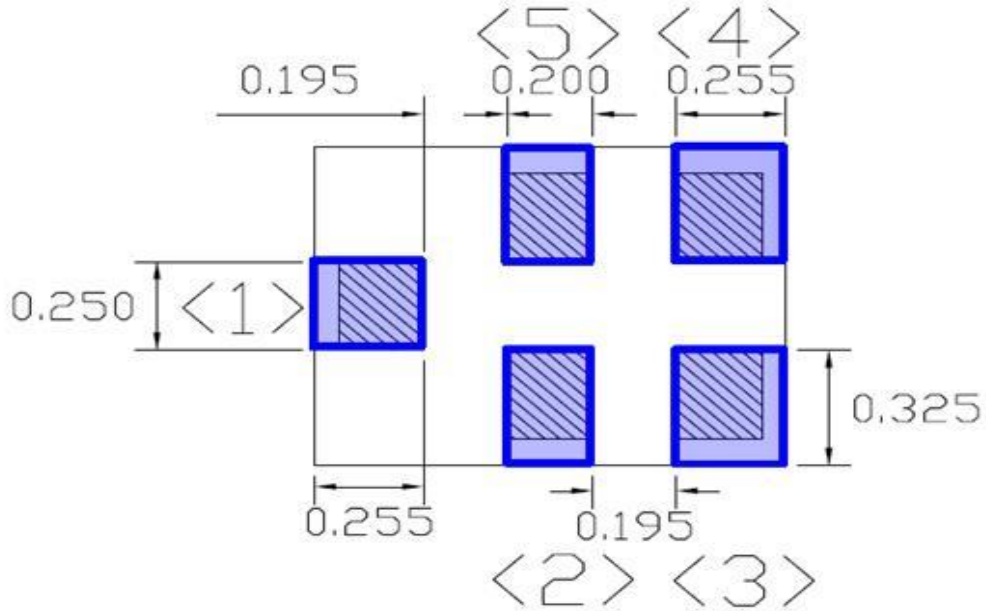


Figure 3. Recommended Foot Print Pattern



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Passband

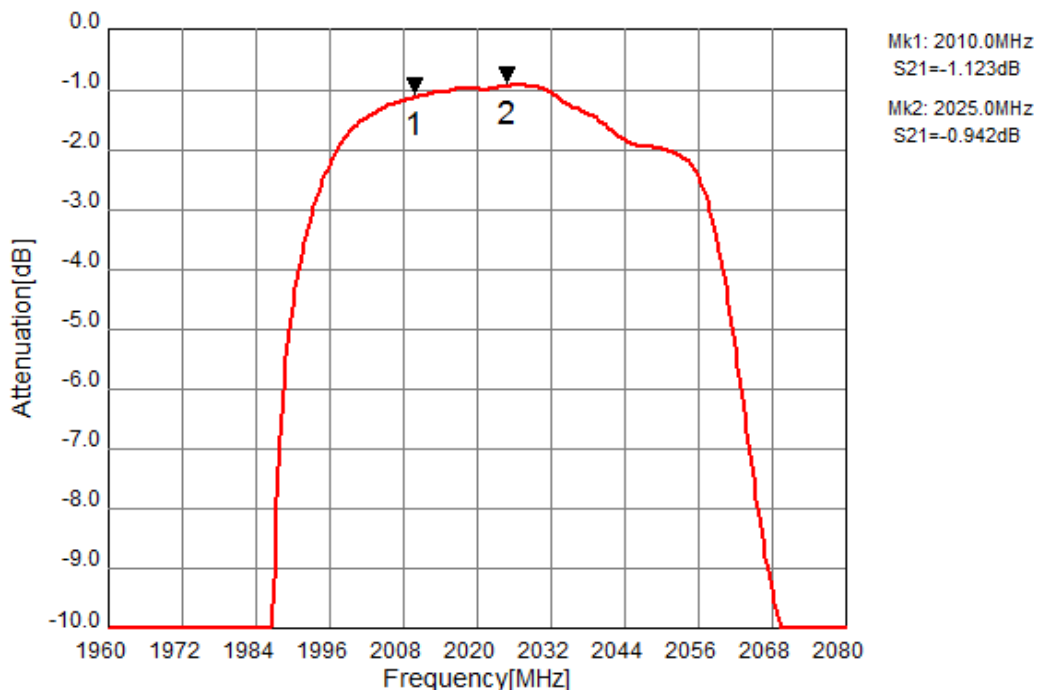
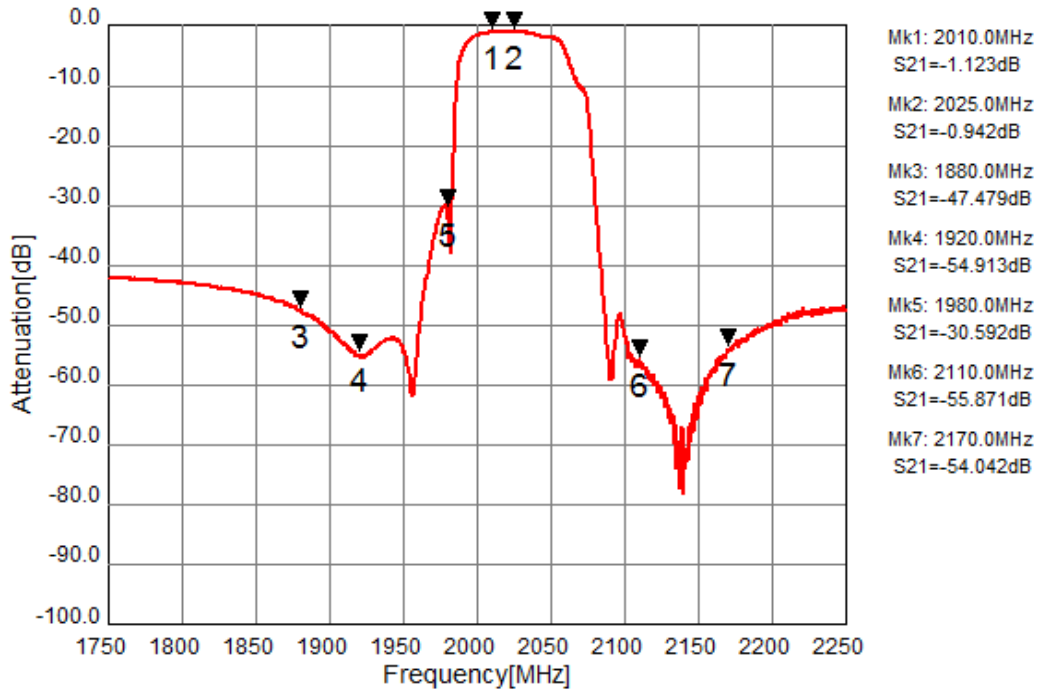


Figure 4-1. Electrical Characteristics

These data excludes loss that comes from the test board





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Ant Port

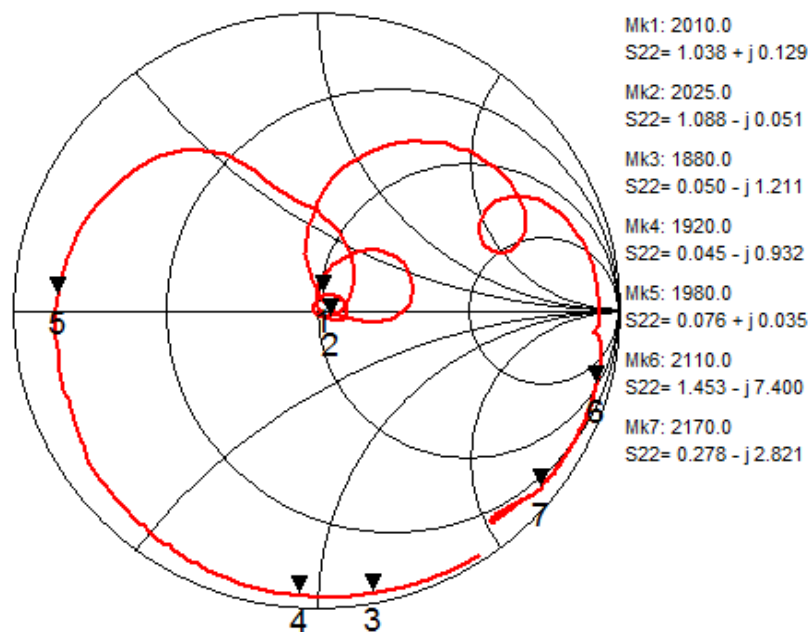
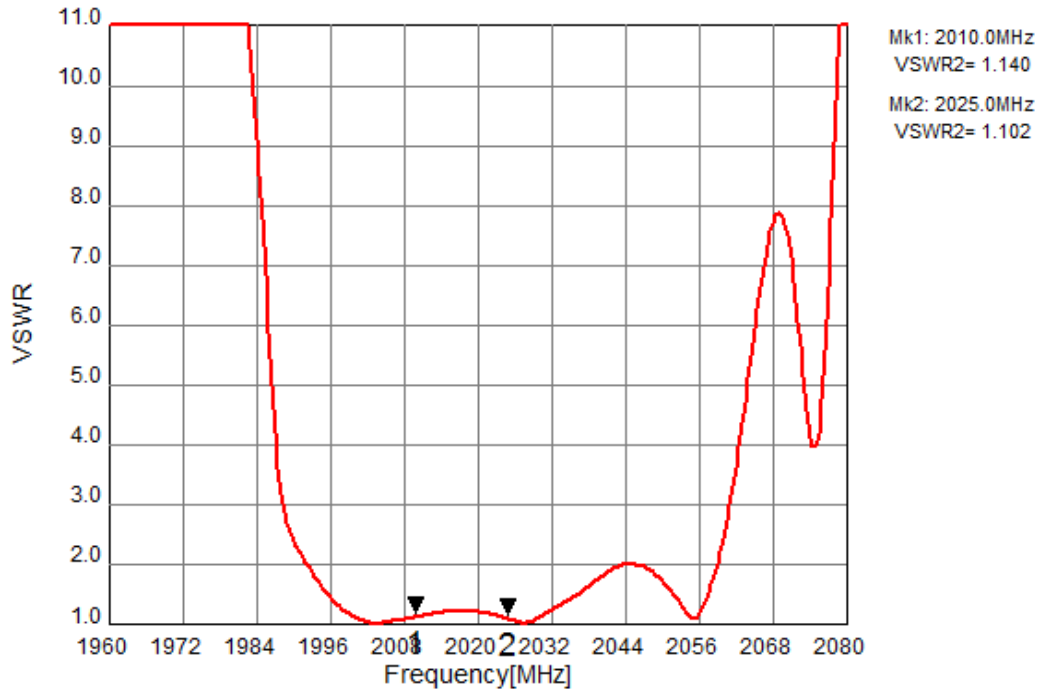


Figure 4-2. Electrical Characteristics



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Tx/Rx Port

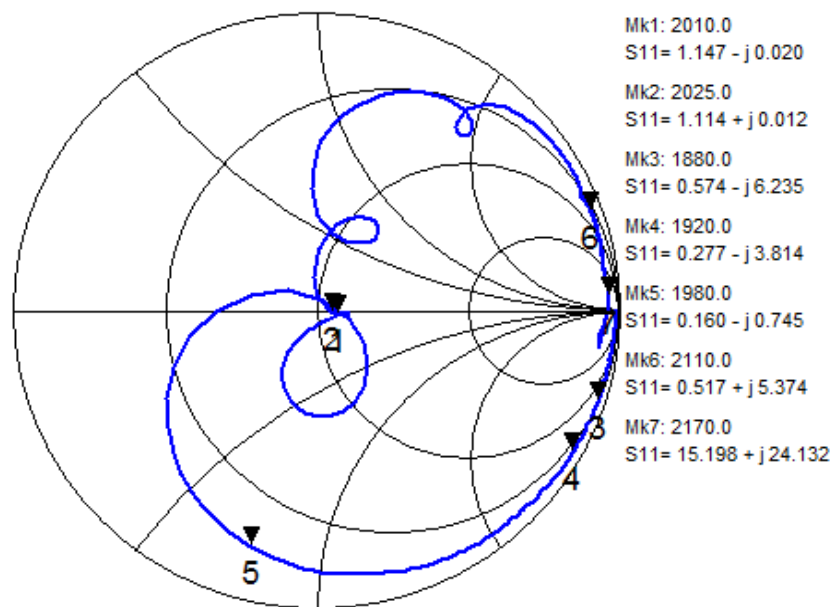
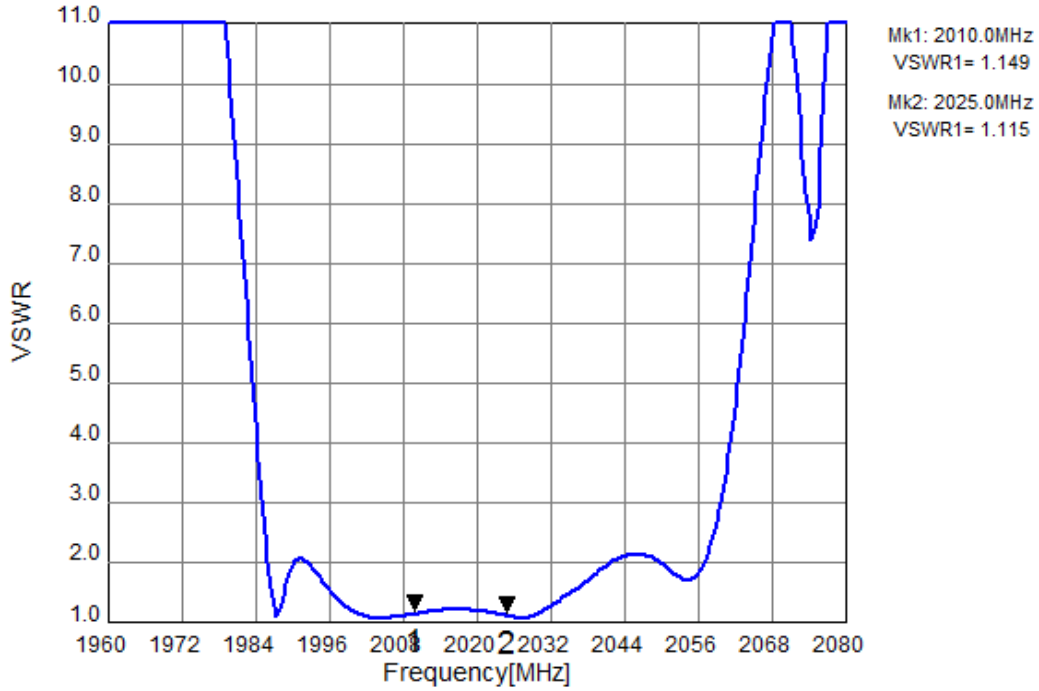


Figure 4-3. Electrical Characteristics



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Wide span

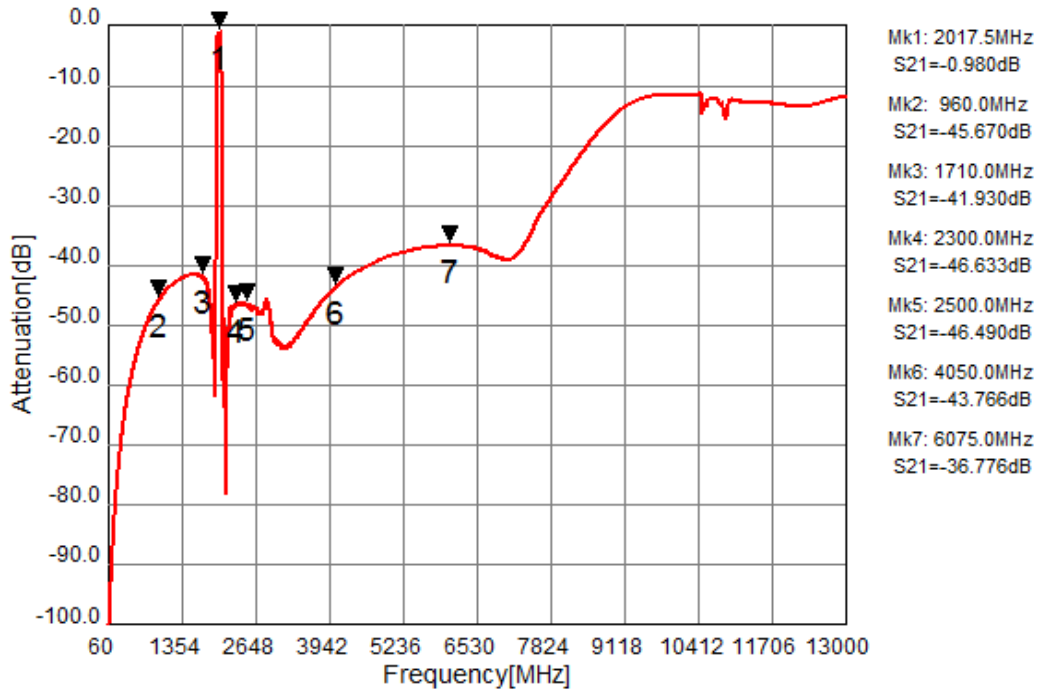


Figure 4-4. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6FC2G017H4PC-X	Tape & Reel	10,000 pcs.	MP
F6FC2G017H4PC-XA	Tape & Reel	less than 10,000 pcs.	MP
F6FC2G017H4PC-Q	Bulk	few pcs.	MP
F6FC2G017H4PC-Y	Tape & Reel	15,000 pcs.	MP
F6FC2G017H4PC-YA	Tape & Reel	less than 15,000 pcs.	MP
F6FC2G017H4PC-J	Tape & Reel	5,000 pcs.	MP
F6FC2G017H4PC-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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MSL1

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Notice

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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.