



* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 40 Tx/Rx Filter	Date	Dec. 26, 2018	
Part Number	F6HH2G350EH75	Version 1.4aA	Final	

Electrical Specification**Table-1**

Item	Condition (MHz)	Specification			Unit	Remarks	
		Min.	Typ.	Max.			
Insertion loss(*1)	2300 - 2400	-	1.4	2.0	dB	+25°C	
		-	1.4	2.3	dB		
VSWR	Input	2300 - 2400	-	1.6	2.2	-	
	Output	2300 - 2400	-	1.6	2.2	-	
Input power	2300 - 2400	+30.0 dBm TDD 40% duty 50°C, 5000h			-		
		+30.0 dBm TD-LTE 40% duty 5MHz, 1RB, 50°C, 5000h			-		
Absolute attenuation	10 - 1565	22	25	-	dB		
	1565 - 1606	22	25	-	dB		
	2426 - 2463	27	49	-	dB	-20 to +25°C	
		45	49	-	dB	+25 to +85°C	
	4600 - 4800	30	42	-	dB		
Absolute attenuation WiFi CH5(*2)	2423 - 2441	30	56	-	dB	-20 to +25°C	
		45	56	-	dB	+25 to +85°C	
Absolute attenuation WiFi CH6(*2)	2428 - 2446	45	59	-	dB	-20 to +85°C	
Absolute attenuation WiFi CH7(*2)	2433 - 2451	49	60	-	dB		
Absolute attenuation WiFi CH8(*2)	2438 - 2456	45	60	-	dB		
Absolute attenuation WiFi CH9(*2)	2443 - 2461	45	60	-	dB		
Absolute attenuation WiFi CH10(*2)	2448 - 2466	45	59	-	dB		
Absolute attenuation WiFi CH11(*2)	2453 - 2471	43	55	-	dB		
Absolute attenuation WiFi CH12(*2)	2458 - 2476	40	50	-	dB		
Absolute attenuation WiFi CH13(*2)	2463 - 2481	38	46	-	dB		
Terminal Impedance	Input port	50//5.1nH			Ω		
	Output port	50//5.1nH			Ω		
Operating Temperature		-30 to +85			°C		
Maximum DC in all ports		-	-	0	VDC	(*3)	
Device size (L typ. xW typ. xH max.)		1.1 x 0.9 x 0.44			mm		



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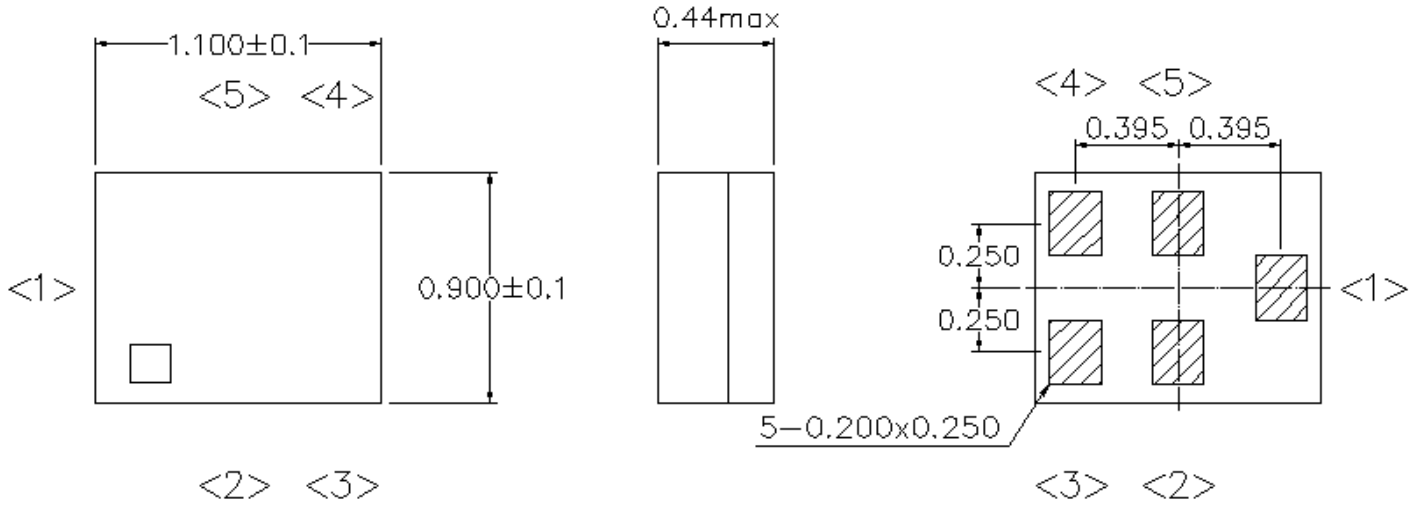
- (*1) Specification of insertion loss excludes loss that comes from the test board.
- (*2) Integrated attenuation over 18MHz CH BW.
- (*3) DC resistance at all ports might be less than 100 MΩ at operating temperatures.
TYMT recommendation is to put blocking capacitors at all ports.



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Dimensions



Unit: mm

Figure-1

Pin Configuration

Table-2

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground



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Evaluation Circuit

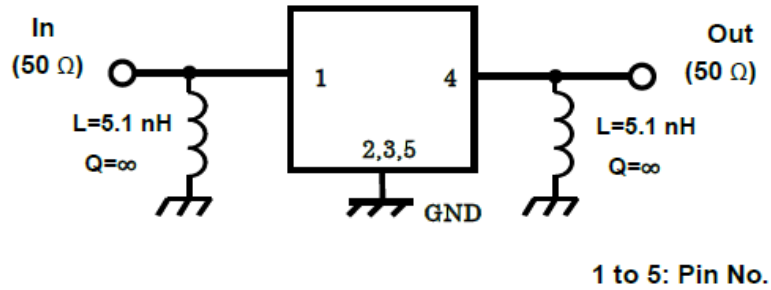
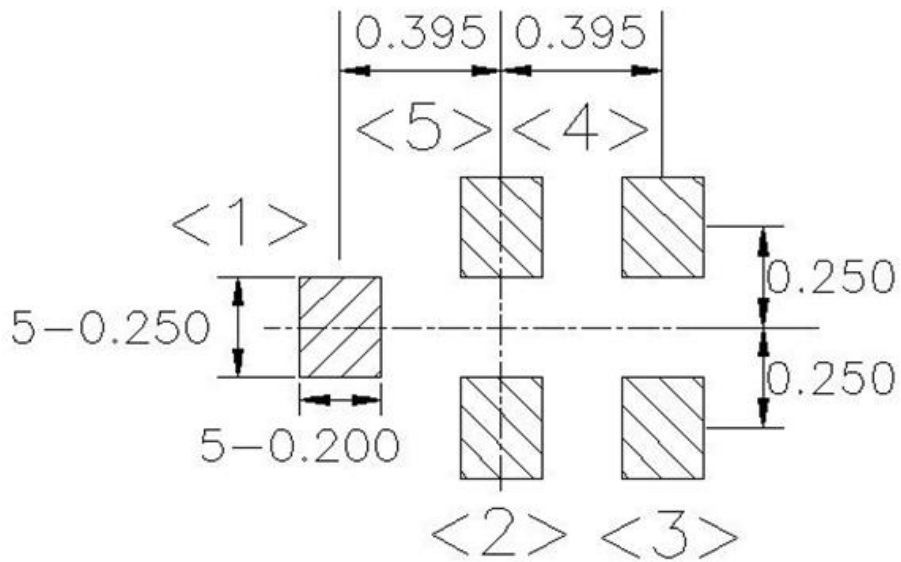


Figure-2

Recommended Foot Print Pattern



Unit: mm

Figure-3



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Electrical Characteristics

Passband

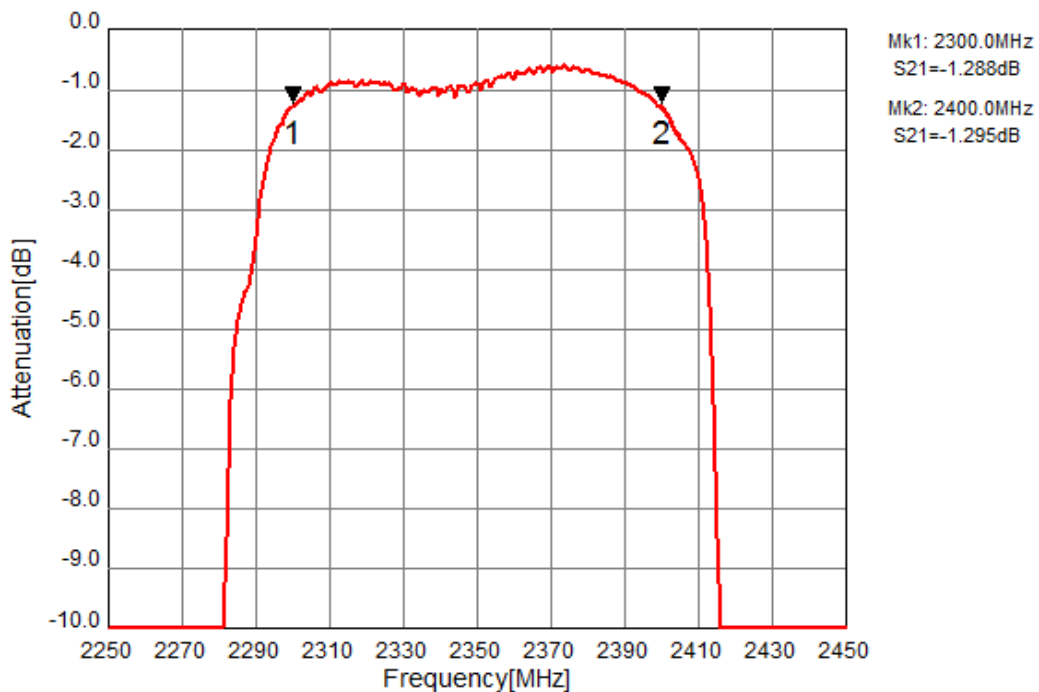
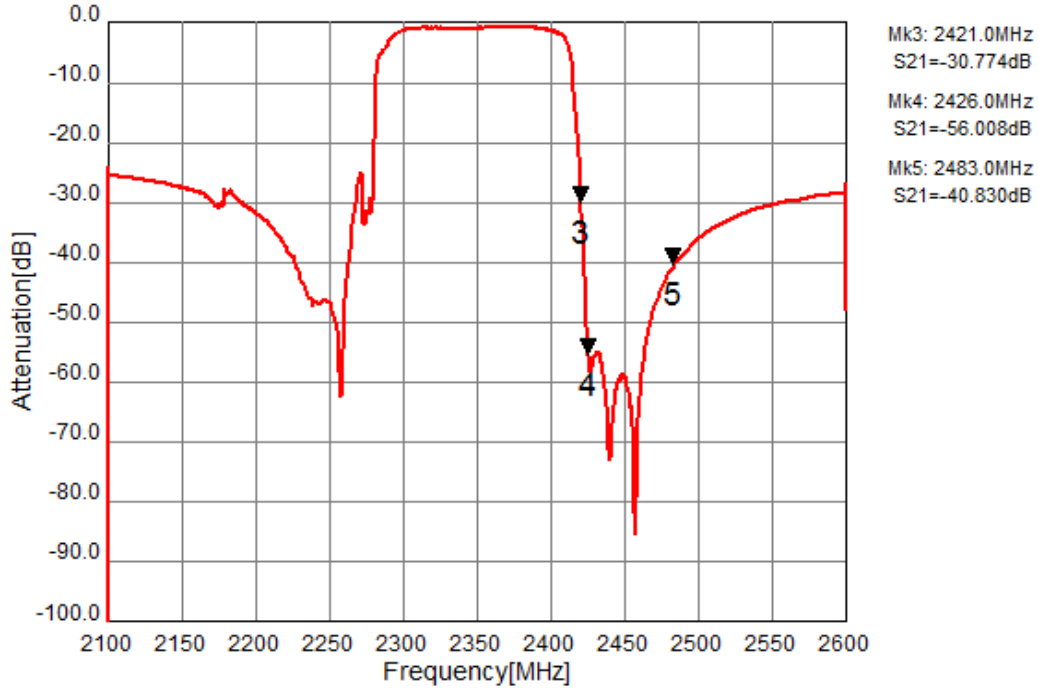


Figure-4-1

These data excludes loss that comes from the test board



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Input Port

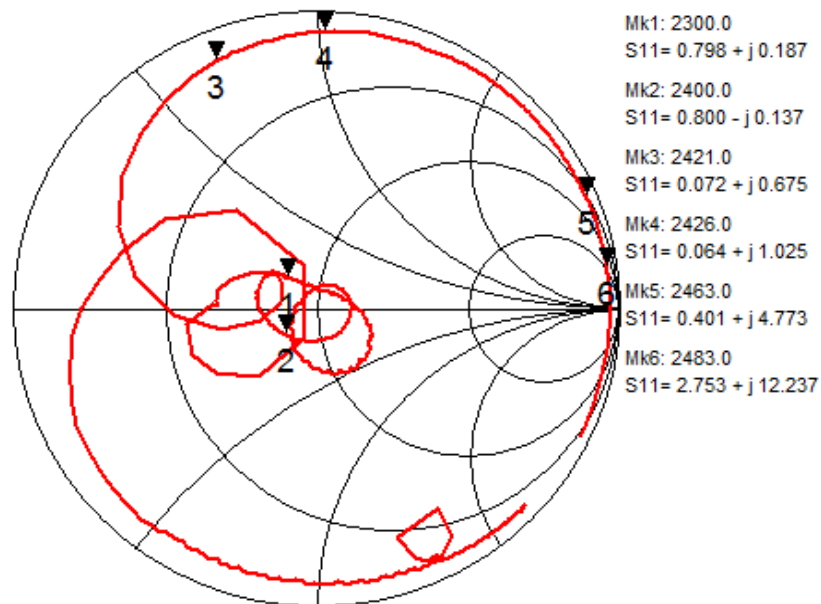
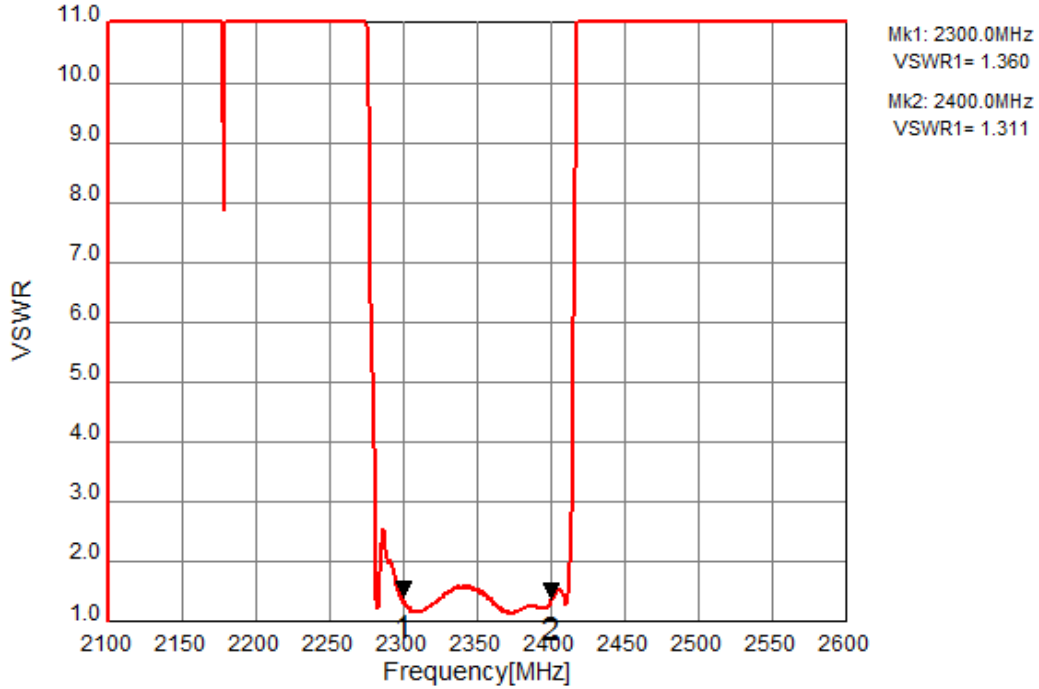


Figure-4-2



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Output Port

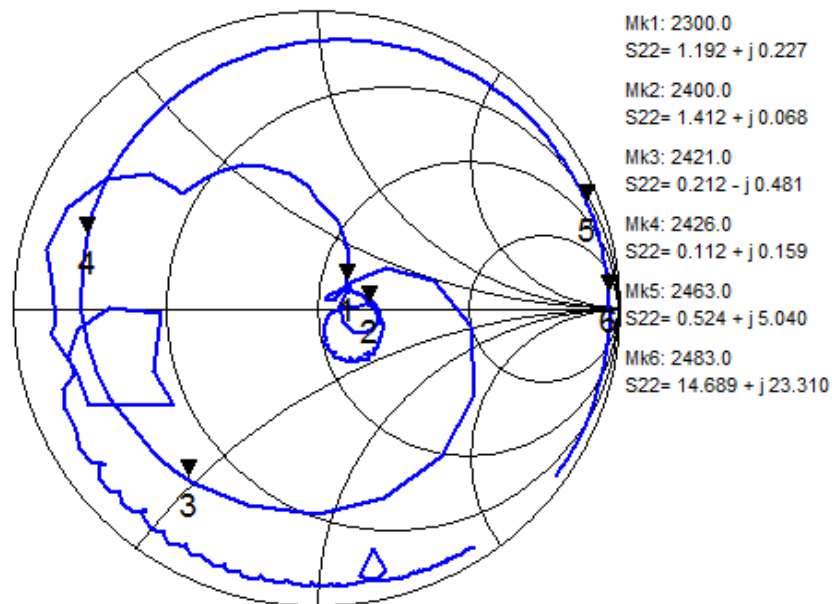
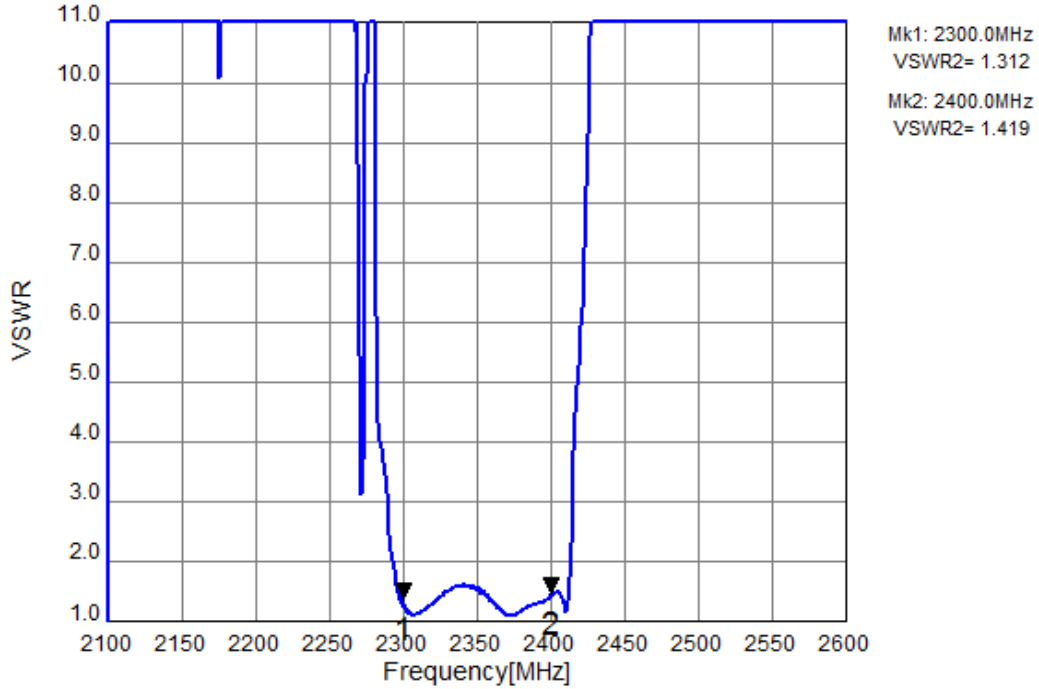


Figure-4-3



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Wide span

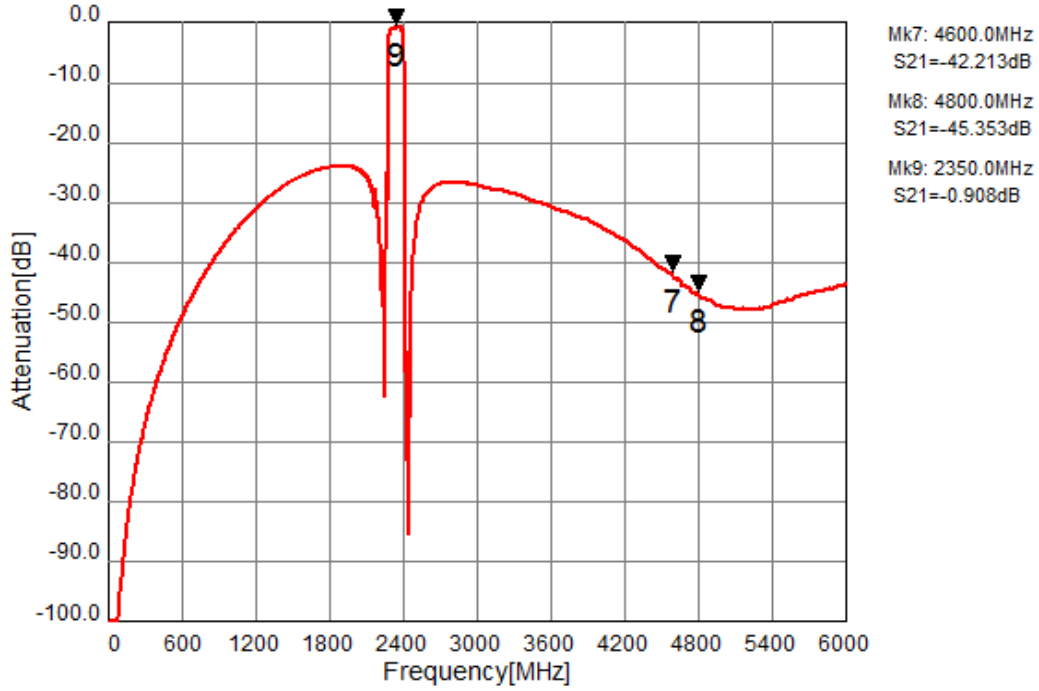


Figure-4-4



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OPTION(2nd Harmonics)

External circuit addition (Second Harmonics trap circuit)
Adding an inductor (L=4.3 nH) and a capacitor (C=1.1 pF) at Output port

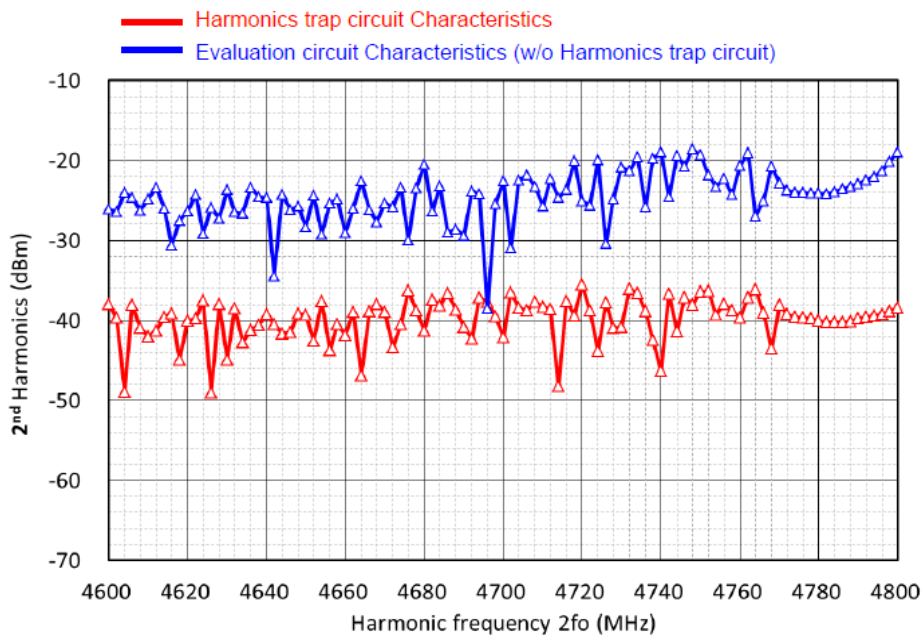
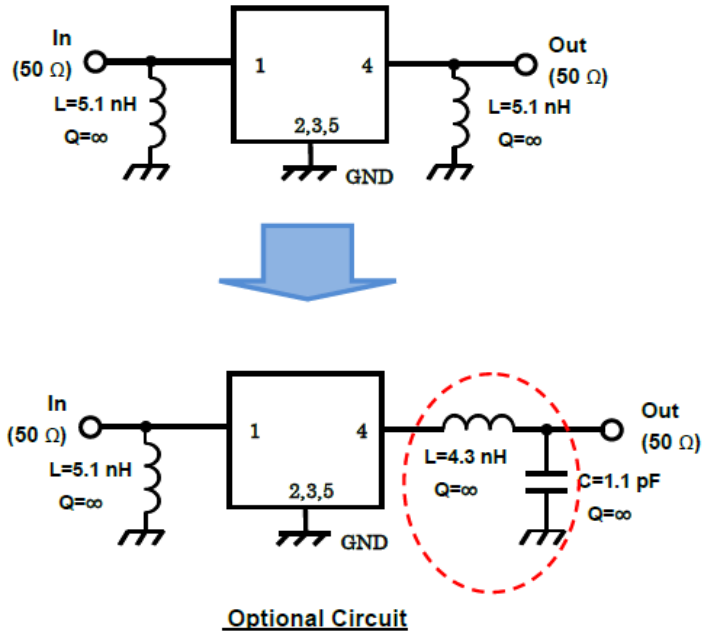


Figure-4-5



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OPTION(2nd Harmonics)

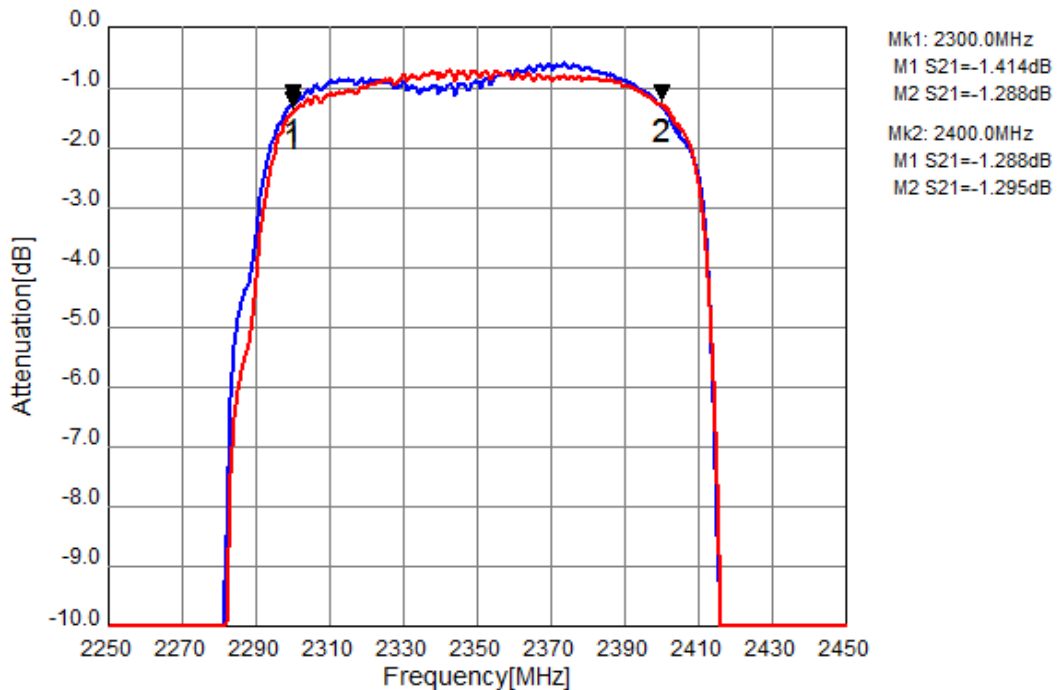
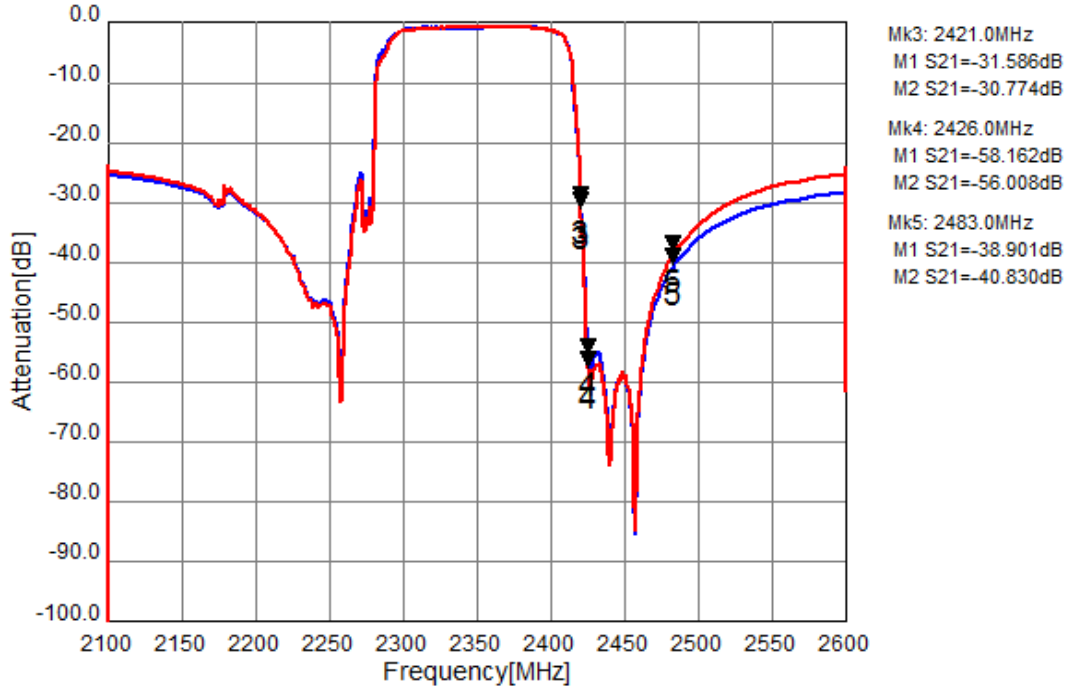


Figure-4-6



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Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
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Ordering Code

Standard Ordering Code	Packing	Reel size	Status
F6HH2G350EH75-X	Tape & Reel	10,000 pcs.	MP

Option Ordering Code	Packing	Reel size	Status
F6HH2G350EH75-XA	Tape & Reel	less than 10,000 pcs.	MP
F6HH2G350EH75-Q	Bulk	few pcs.	MP
F6HH2G350EH75-J	Tape & Reel	5,000 pcs.	MP
F6HH2G350EH75-JA	Tape & Reel	less than 5,000 pcs.	MP
F6HH2G350EH75-Y	Tape & Reel	15,000 pcs.	MP
F6HH2G350EH75-YA	Tape & Reel	less than 15,000 pcs.	MP

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

*MP : Mass Production

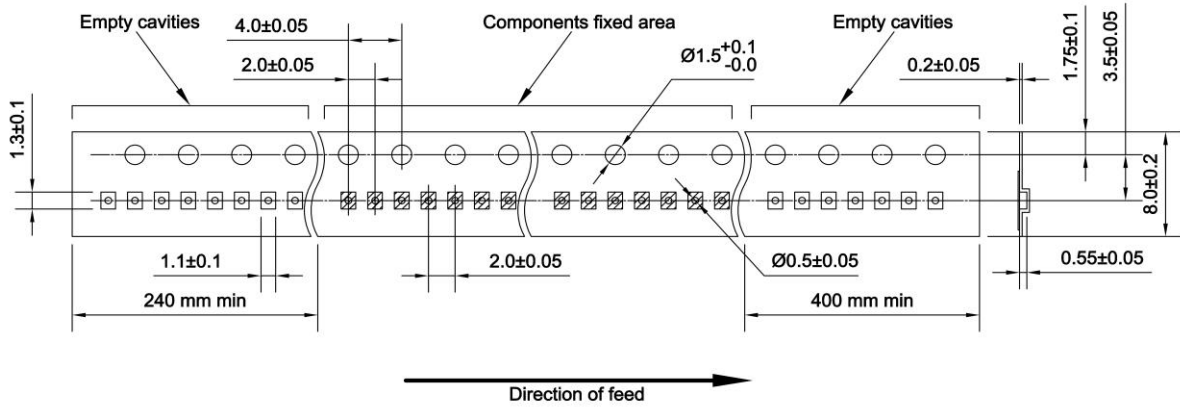


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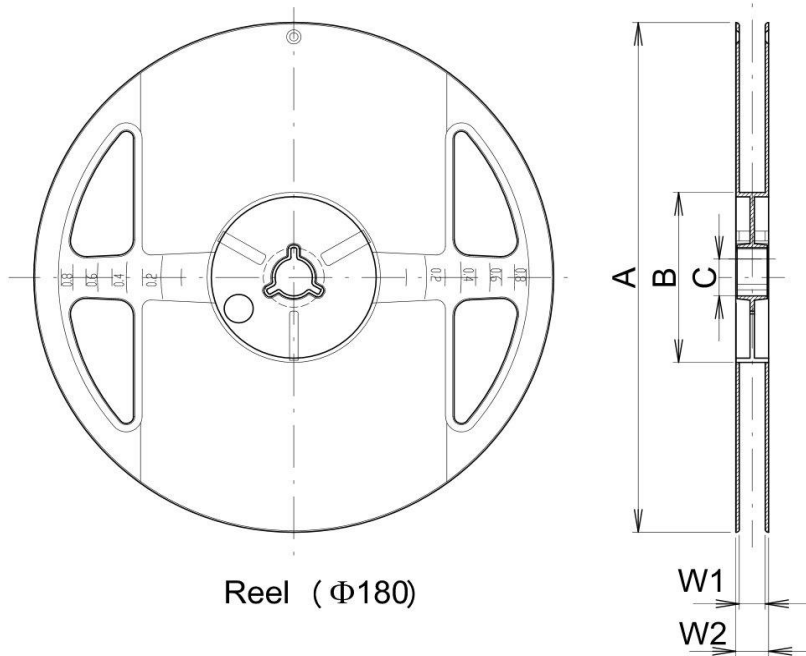
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Tape and Reel Information

Dimensions of Tape (Standard)



Dimensions of Reel



Order	Code	Quantity (pcs./reel)	A	B	C	W1	W2	Tape Pitch
Standard	X	10,000	φ180	φ60	φ13 ±0.2	9 +1.0/-0.0	11.4 ±1.0	2.0 ±0.05
Option	J	5,000	φ180	φ60	φ13 ±0.2	9 +1.0/-0.0	11.4 ±1.0	4.0 ±0.1
Option	Y	15,000	φ330	φ100	φ13 ±0.2	9.4 ±1.0	13.4 ±1.0	4.0 ±0.1

Unit:mm



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Notice

- 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 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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