



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date	Apr. 25, 2019	
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

# **Electrical Specification**

# Table-1

Iten	n	Condition	5	Specification	on	Unit	Remarks
		(MHz)	Min.	Тур.	Max.		
		0505 0555	-	2.0	3.0	dB	-30 to +25 °C
	(+4)	2535 - 2555	-	2.0	2.3	dB	+25 to +85 °C
Insertion lo	oss (~1)	2555 - 2635	-	1.5	1.8	dB	
		2635 - 2655	-	1.6	2.0	dB	
Ripp	le	2535 - 2655	-	1.3	2.2	dB	
VSWR	Tx/Rx	2535 - 2655	-	1.6	2.0	-	
VSWK	Ant	2535 - 2655	-	1.8	2.1	-	
Input o	nwer.	2535 - 2655	Τſ	+32.0dBm DD 40% du -50°C,3000	ity,	,	HPUE Support
Input power		2555 - 2655	+32.0 dBm, TD-LTE 40% duty 5MHz 1RB,+50°C,3000		duty	,	HPUE Support
		10 - 960	45	49	-	dB	
Absolute at	tenuation	1225 - 1880	22	26	-	dB	
		1880 - 2400	21	25	-	dB	
Absolute atte	nuation(*2)	2401 - 2483	38	42	-	dB	
		2750 - 4900	26	32	-	dB	
Absolute at	tenuation	4900 - 6000	35	52	-	dB	
		6000 - 8000	13	23	-	dB	
		Tx/Rx port		50//2.4 n⊢	I	Ω	
Terminal Impeadance		Ant port		50//2.4 n⊢	ı	Ω	
Operating Temperature			-30 to +85	5	°C		
Maximum DC in All Ports		-	-	5	VDC	Device only	
DC Impedance to Ground			100		МΩ	Device only	
Device size (L typ. x W typ. x H max.)		nax.)	1.	1 x 0.9 x 0	.44	mm	

<sup>(\*1)</sup> Specification of insertion loss excludes loss that comes from the test board.

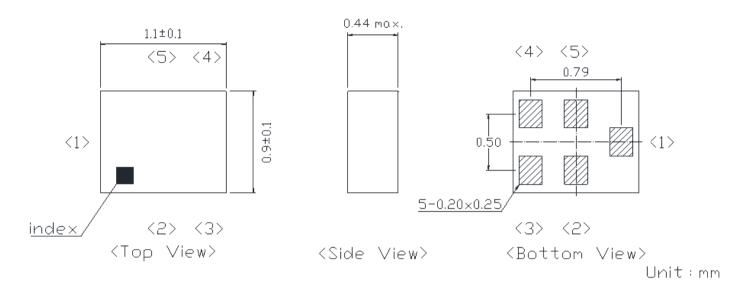
<sup>(\*2)</sup> Integrated attenuation over 18 MHz CH BW.





Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date Apr. 25, 201		
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

## **Dimensions**



# Figure-1

## **Pin Configuration**

Table-2

Pin No.	Symbol	Function
1	Tx/Rx	Transmitter / Receiver
2	GND	Ground
3	GND	Ground
4	Ant	Antenna
5	GND	Ground



Customer Name	Standard	TAIYO YUDEN Mobile T	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date	Apr. 25, 2019		
Part Number	F6FC2G595H4PG	Version 1.2aA	Final		

## **Evaluation Circuit**

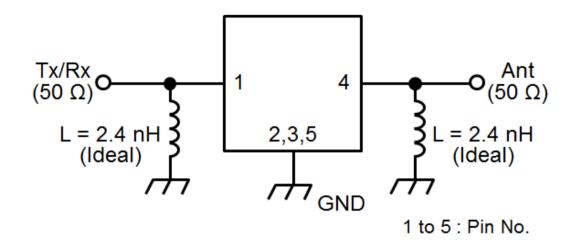


Figure-2

## **Recommended Foot Print Pattern**

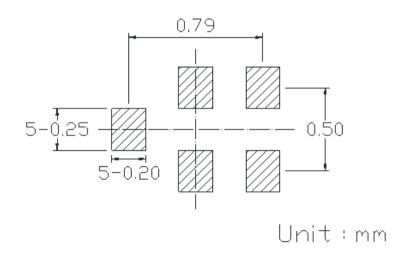


Figure-3

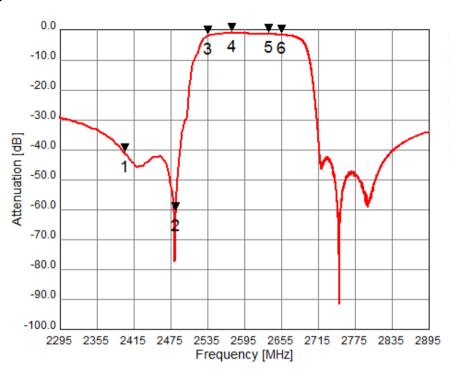




Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date	Apr. 25, 2019	
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

## **Electrical Characteristics**

## **Passband**



Mk1: 2401.00MHz S21=-41.164dB Mk2: 2483.00MHz S21=-60.734dB Mk3: 2535.00MHz S21=-2.051dB Mk4: 2575.00MHz S21=-1.037dB Mk5: 2635.00MHz S21=-1.436dB Mk6: 2655.00MHz S21=-1.620dB

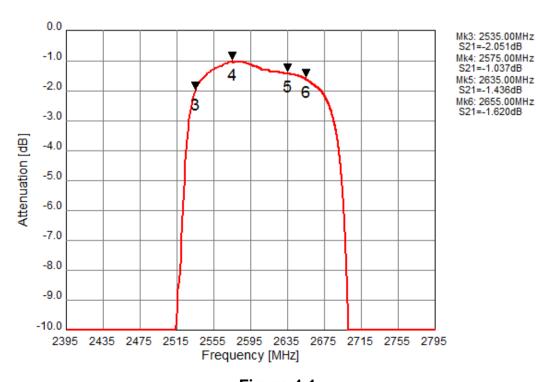


Figure-4-1

These data excludes loss that comes from test board.

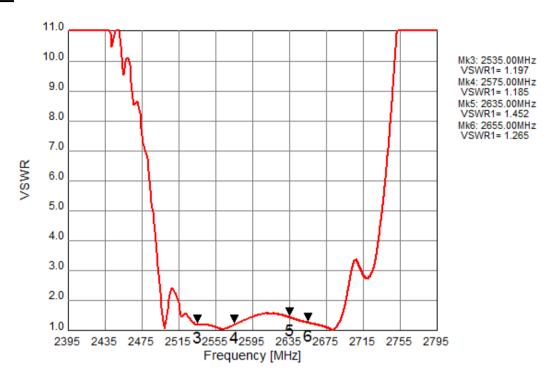






Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date Apr. 25, 201		
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

#### Tx/Rx Port



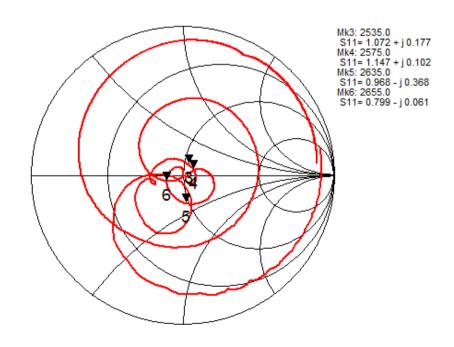


Figure-4-2

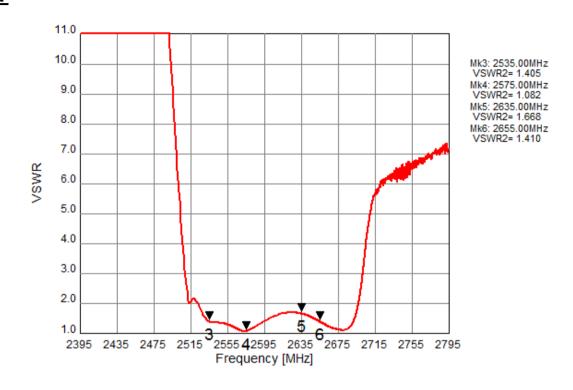






Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date	Apr. 25, 2019	
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

#### Ant Port



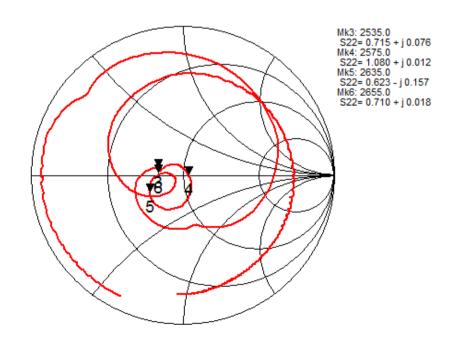


Figure-4-3

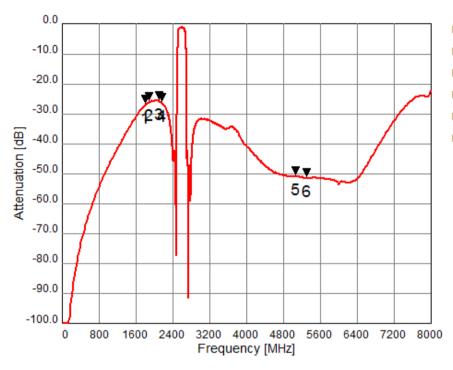






Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date Apr. 25, 2019		
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

# Wide span



Mk1: 1805.00MHz S21=-27.072dB Mk2: 1880.00MHz S21=-26.162dB Mk3: 2110.00MHz S21=-25.689dB Mk4: 2170.00MHz S21=-26.330dB Mk5: 5070.00MHz S21=-50.903dB Mk6: 5310.00MHz S21=-51.565dB





Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date	Apr. 25, 2019	
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

# Ordering Code

Standard Ordering Code	Packing	Reel size	Status
F6FC2G595H4PG-X	Tape & Reel	10,000 pcs.	MP

Option Ordering Code	Packing	Reel size	Status
F6FC2G595H4PG-XA	Tape & Reel	less than 10,000 pcs.	MP
F6FC2G595H4PG-Y	Tape & Reel	15,000 pcs.	MP
F6FC2G595H4PG-YA	Tape & Reel	less than 15,000 pcs.	MP
F6FC2G595H4PG-J	Tape & Reel	5,000 pcs.	MP
F6FC2G595H4PG-JA	Tape & Reel	less than 5,000 pcs.	MP
F6FC2G595H4PG-Q	Bulk	few pcs.	MP

<sup>\*</sup>Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives.

\*MP : Mass Production

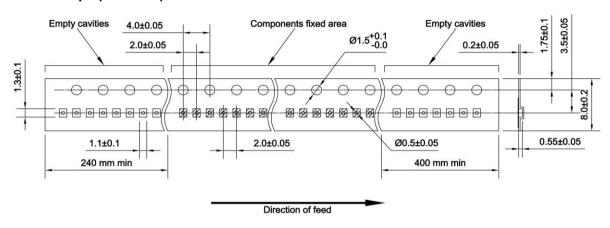




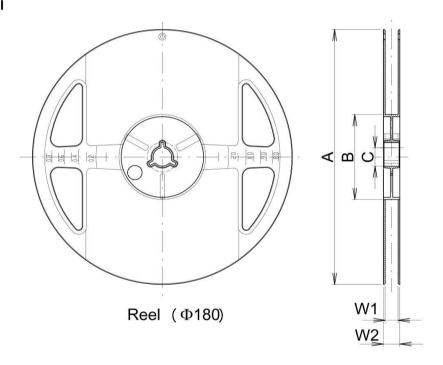
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date	Apr. 25, 2019	
Part Number	F6FC2G595H4PG	Version 1.2aA	Final	

## Tape and Reel Infomation

## **Dimensions of Tape (Standard)**



#### **Dimensions of Reel**



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

Unit:mm





Customer Name	Standard	TAIYO YUDEN Mobile To	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 41 (2535-2655 MHz) Tx/Rx Filter	Date	Apr. 25, 2019		
Part Number	F6FC2G595H4PG	Version 1.2aA	Final		

## 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.

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 products listed in this specification for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

- Information contained in this specification is intended to convey examples of typical performances and/or applications of our products and is not intended to make any warranty with respect to the intellectual property rights or any other related rights of TAIYO YUDEN or any third parties nor grant any license under such rights.
- Please note that the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a fault or defect in our products. Notwithstanding the foregoing, if there is a written agreement (e.g., supply and purchase agreement, quality assurance agreement) signed by TAIYO YUDEN and your company, TAIYO YUDEN will warrant our products in accordance with such agreement.
- The contents of this specification are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this specification are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.
- Caution for Export

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.