



\* Pb Free Part



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**

Item		Condition (MHz)	Specification			Unit	Remarks
			Min.	Typ.	Max.		
Insertion loss (*1)		2535 - 2555	-	2.0	3.0	dB	-30 to +25 °C
			-	2.0	2.3	dB	+25 to +85 °C
		2555 - 2635	-	1.5	1.8	dB	
		2635 - 2655	-	1.6	2.0	dB	
Ripple		2535 - 2655	-	1.3	2.2	dB	
VSWR	Tx/Rx	2535 - 2655	-	1.6	2.0	-	
	Ant	2535 - 2655	-	1.8	2.1	-	
Input power		2535 - 2655	+32.0dBm, TDD 40% duty, +50°C,3000h			-	HPUE Support
			+32.0 dBm, TD-LTE 40% duty 5MHz 1RB,+50°C,3000h			-	HPUE Support
Absolute attenuation		10 - 960	45	49	-	dB	
		1225 - 1880	22	26	-	dB	
		1880 - 2400	21	25	-	dB	
Absolute attenuation(*2)		2401 - 2483	38	42	-	dB	
Absolute attenuation		2750 - 4900	26	32	-	dB	
		4900 - 6000	35	52	-	dB	
		6000 - 8000	13	23	-	dB	
Terminal Impedance		Tx/Rx port	50//2.4 nH			Ω	
		Ant port	50//2.4 nH			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. x W typ. x H max.)			1.1 x 0.9 x 0.44			mm	

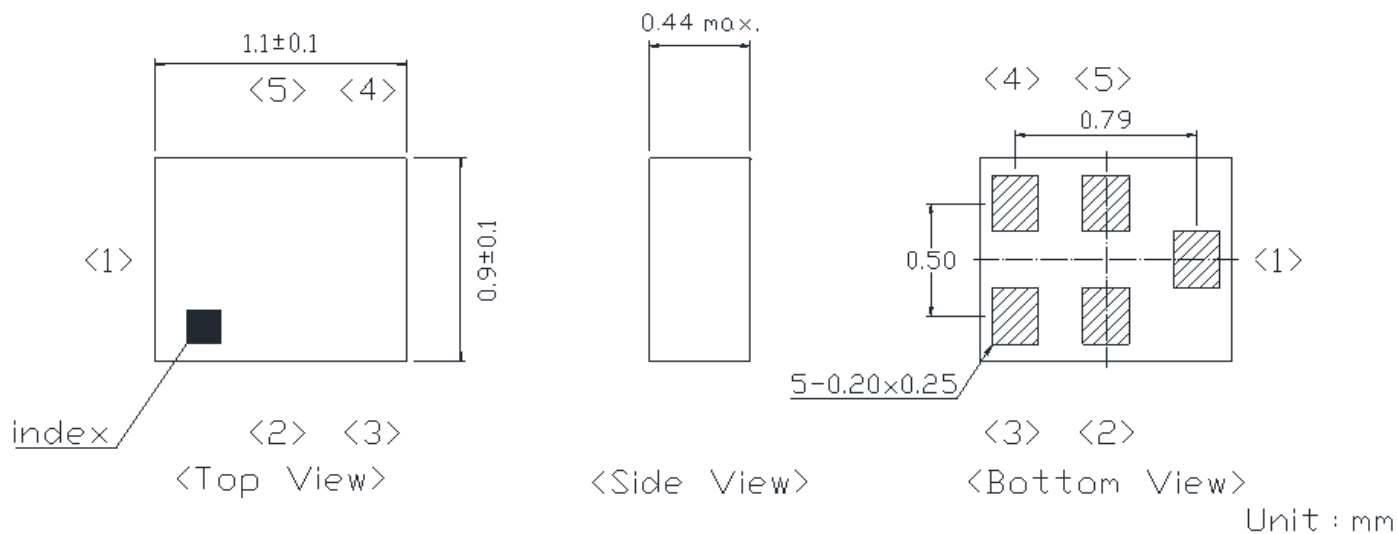
(\*1) Specification of insertion loss excludes loss that comes from the test board.

(\*2) Integrated attenuation over 18 MHz CH BW.



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## 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



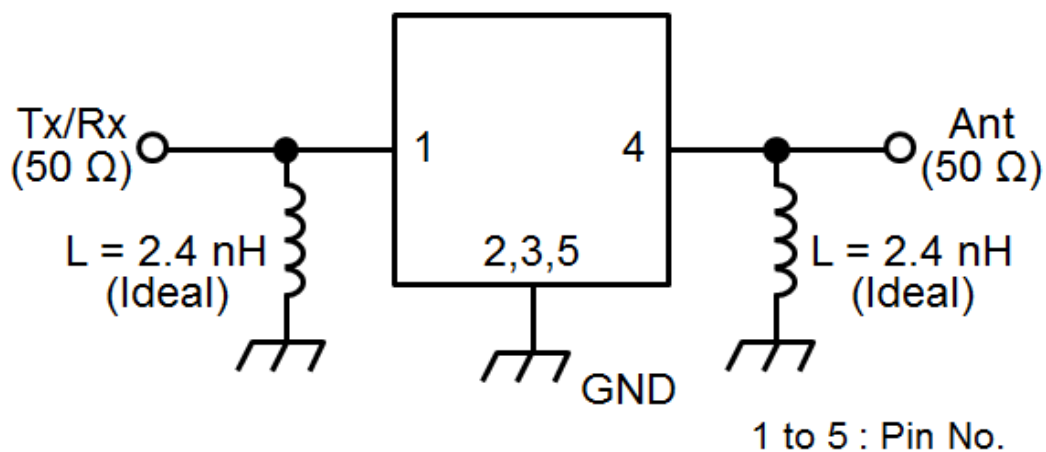
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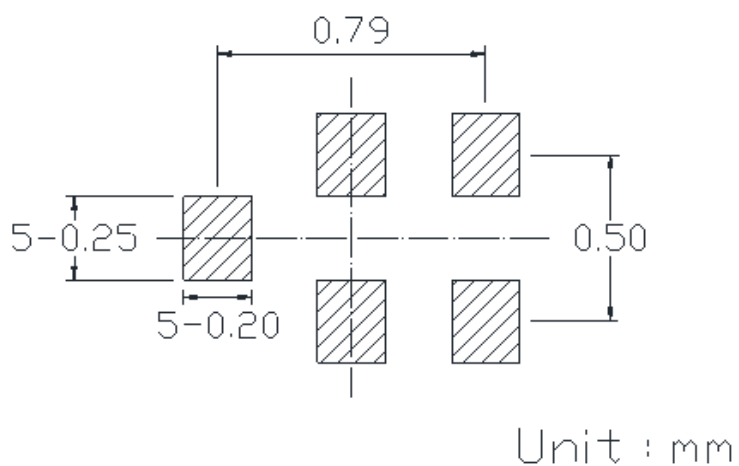
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### Evaluation Circuit



**Figure-2**

### Recommended Foot Print Pattern



**Figure-3**



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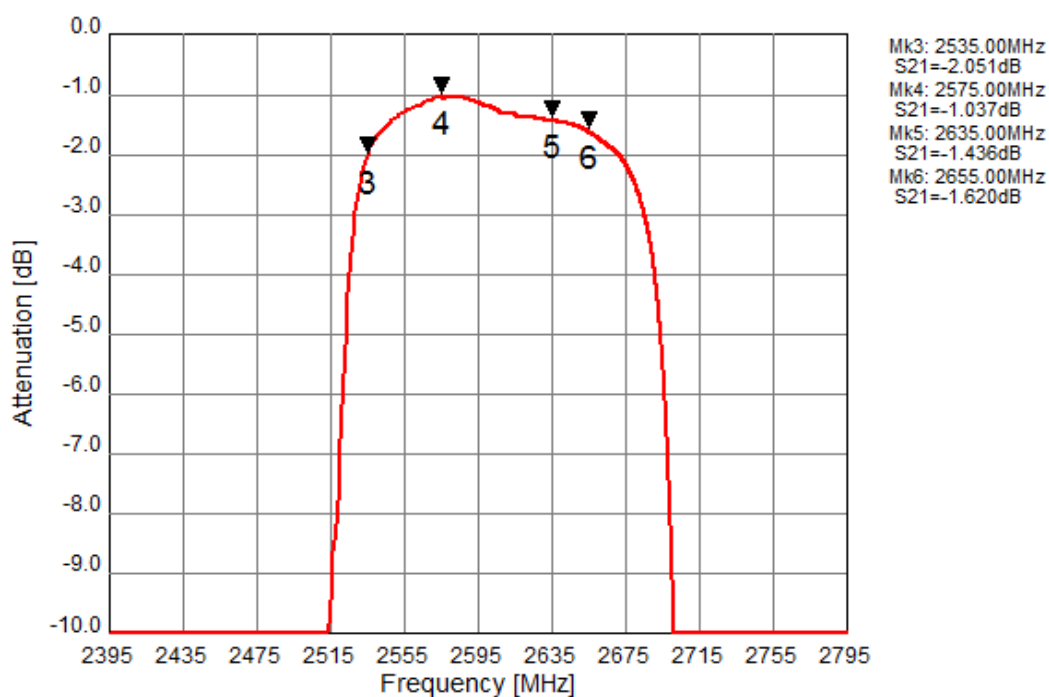
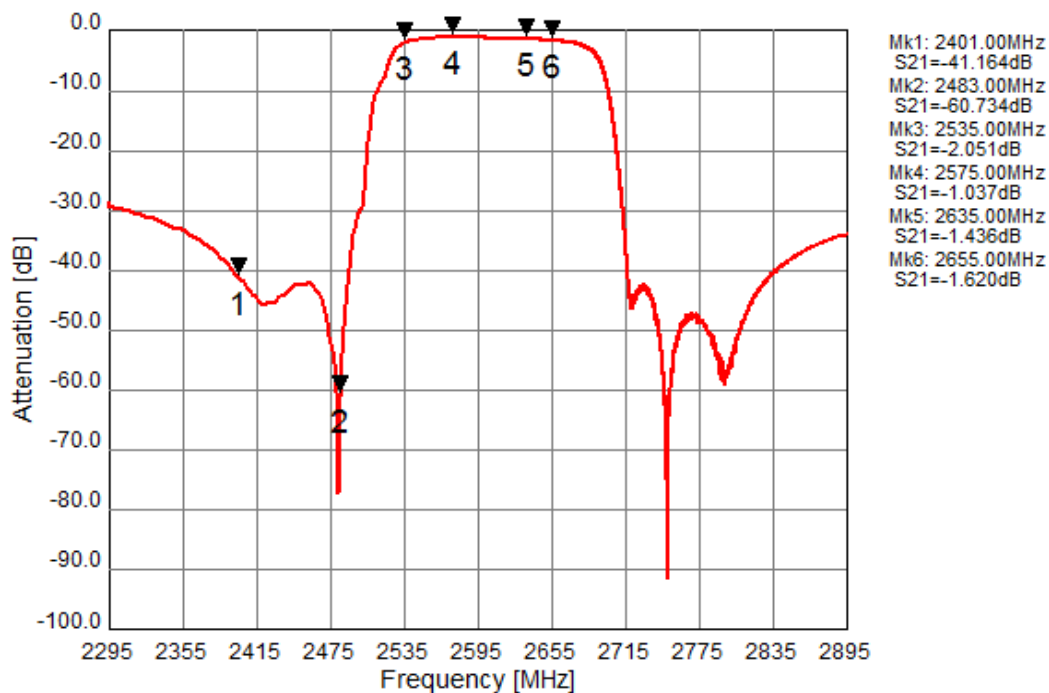


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## Electrical Characteristics

### Passband



**Figure-4-1**

These data excludes loss that comes from test board.

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## Tx/Rx Port

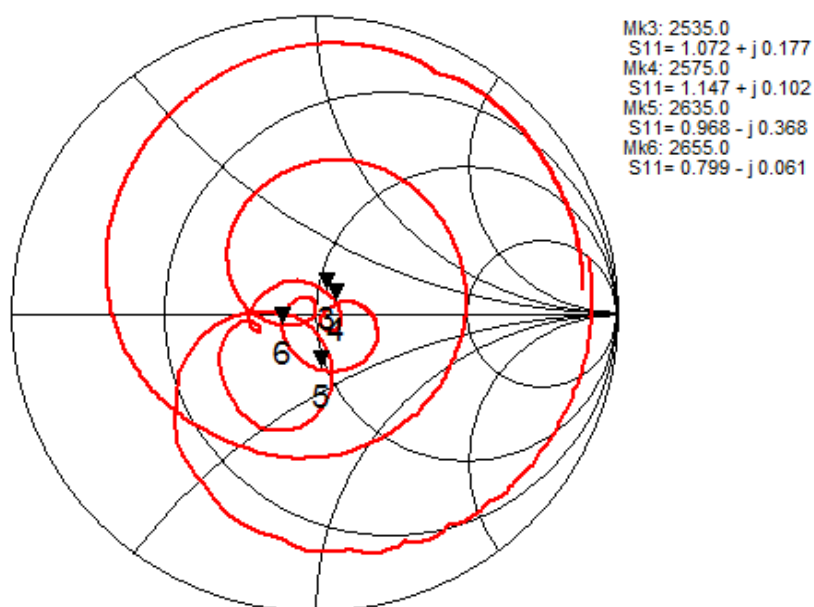
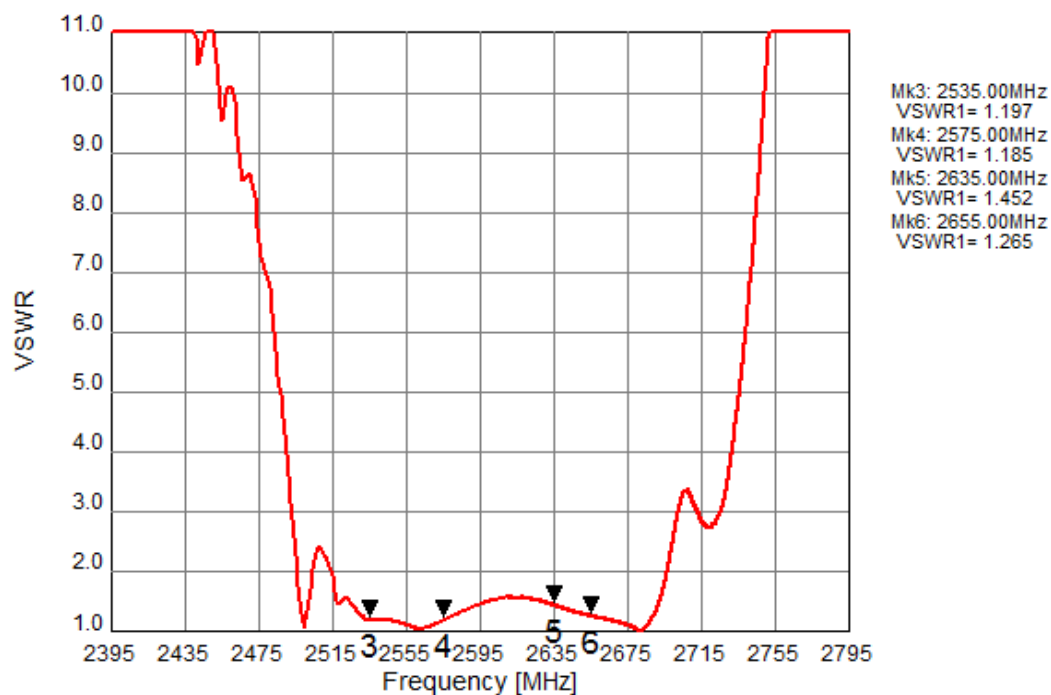


Figure-4-2



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## Ant Port

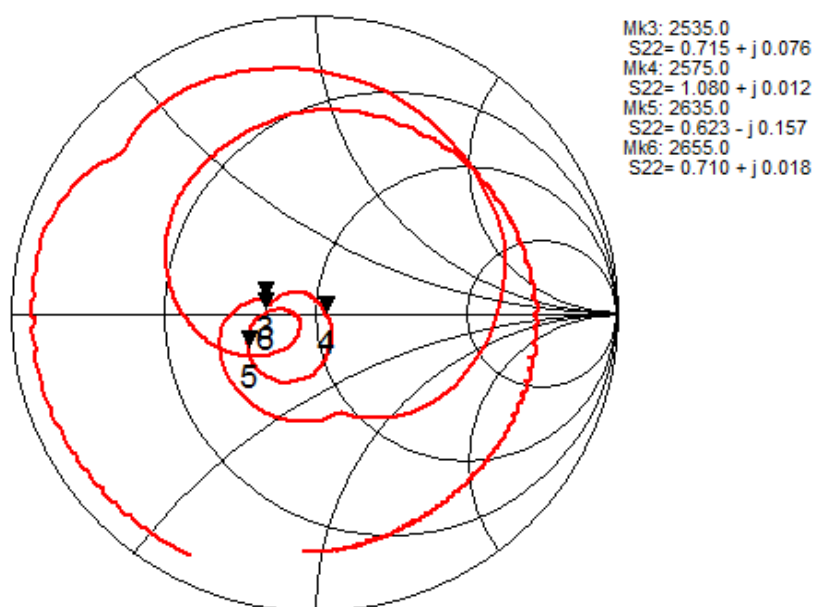
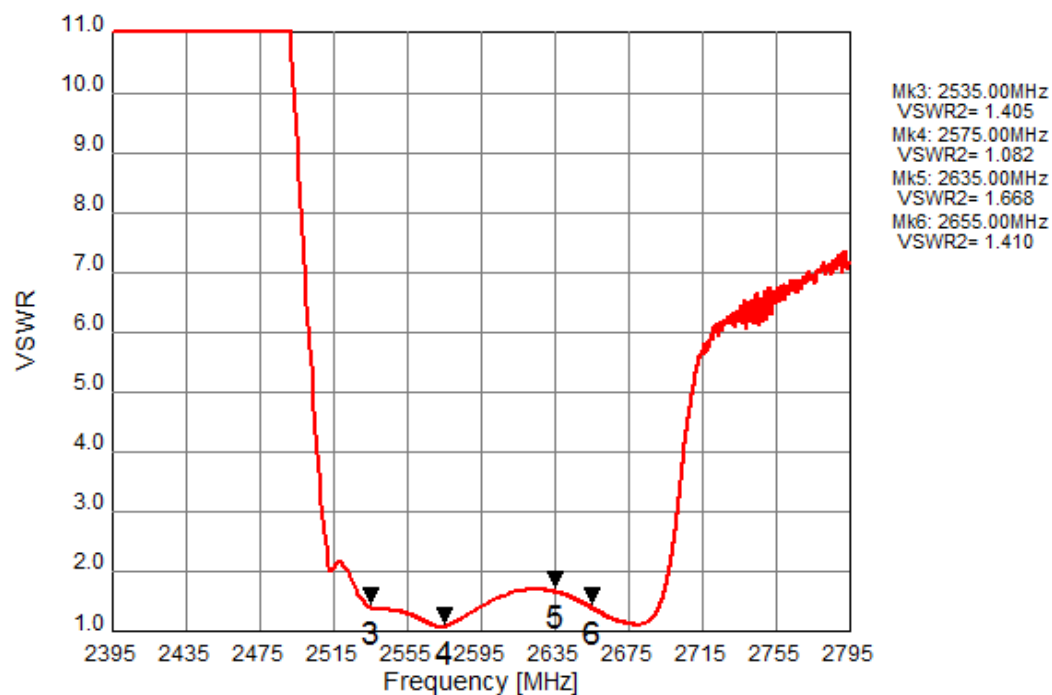


Figure-4-3



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### Wide span

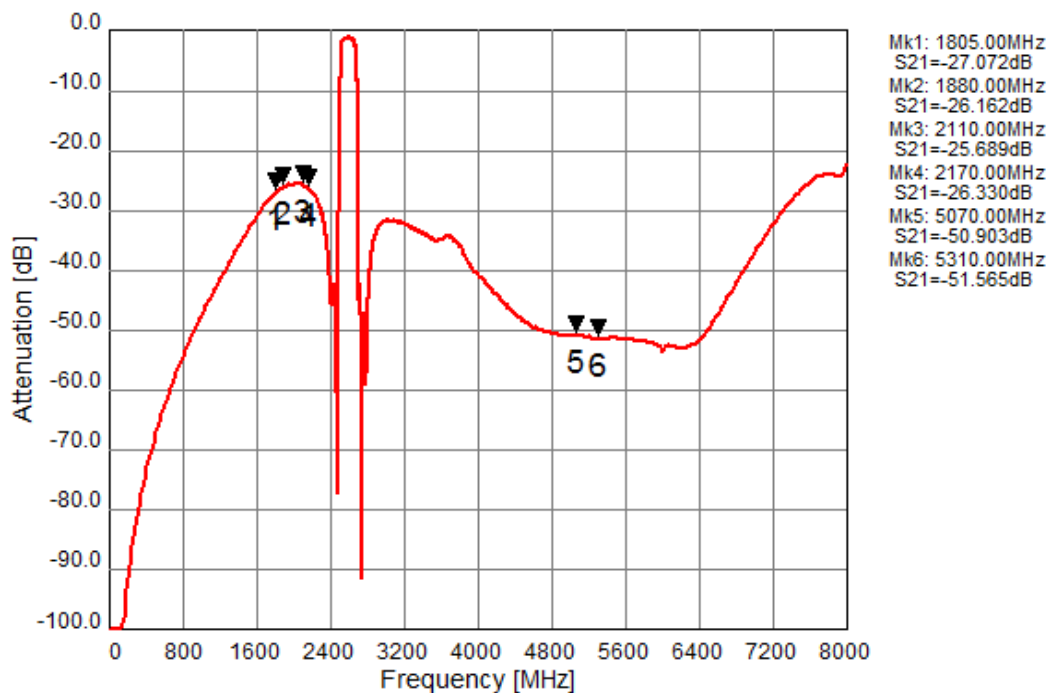


Figure-4-4



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## 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

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

\*MP : Mass Production





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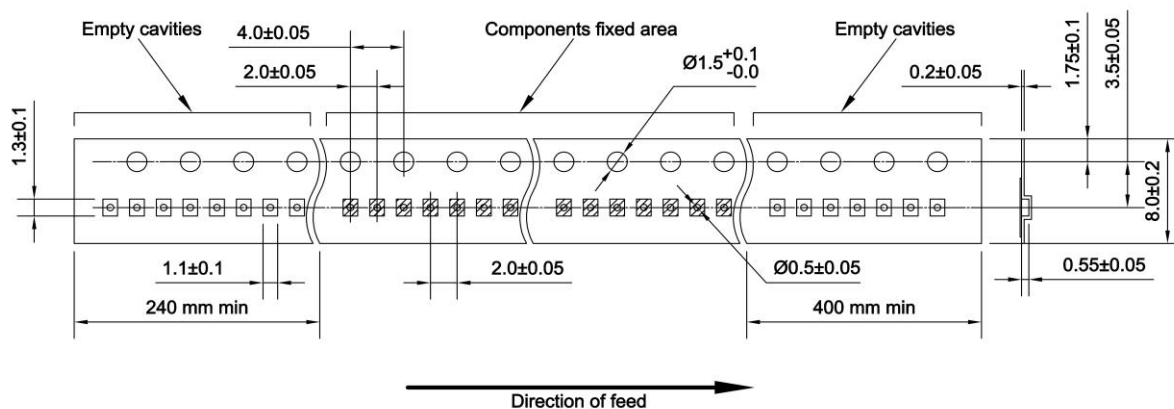


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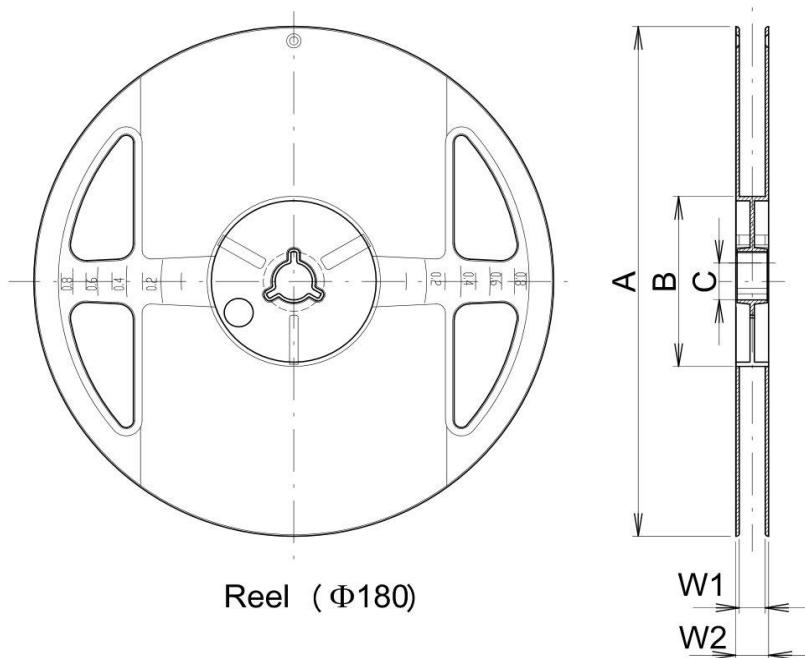
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## Tape and Reel Information

### 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	Y	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



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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.  
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.
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