



* Pb Free Part



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band5 / BC0 Duplexer	Date	Dec. 05, 2018
Part Number	D5DA881M5K2E4	Version 3.5cdC	Final

Electrical Specification

Table-1

Item			Condition (MHz)	Specification			Unit	Remarks
				Min.	Typ.	Max.		
Tx to Ant	Insertion loss (*1)		824 - 849	-	1.4	1.9	dB	
	Ripple		824 - 849	-	0.3	1.2	dB	
	VSWR	Tx	824 - 849	-	1.9	2.2	-	
		Ant	824 - 849	-	1.6	2.0	-	
	Input Power		824 - 849	+29dBm, CW, +50°C, 50000h			-	
				+29dBm, LTE 5 MHz 1RB, +50 °C, 50000h			-	
				+30.0dBm, CW, +50°C, 5000h			-	
				+30.0dBm, LTE 5 MHz 1RB, +50 °C, 5000h			-	
	Absolute attenuation		DC - 750	25	40	-	dB	
			779 - 804	30	45	-	dB	
			860 - 870	3	7	-	dB	
			869 - 894	52	58	-	dB	
			1574 - 1577	40	51	-	dB	
			1648 - 1698	40	53	-	dB	
			2400 - 2494	35	45	-	dB	
			2494 - 2547	30	43	-	dB	
Ant to Rx	Insertion loss (*1)		869 - 894	-	1.7	2.3	dB	
	Ripple		869 - 894	-	0.4	1.3	dB	
	VSWR	Ant	869 - 894	-	1.7	2.0	-	
		Rx	869 - 894	-	1.7	2.0	-	
	Absolute attenuation		779 - 804	50	57	-	dB	
			824 - 849	50	60	-	dB	
Tx to Rx	Isolation		824 - 849	55	58	-	dB	
			869 - 894	54	59	-	dB	



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MSL1

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Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Terminating Impedance	Tx port	50			Ω	
	Rx port	50			Ω	
	Ant port	50//6.8nH			Ω	
Operating Temperature		-30 to +85			$^{\circ}\text{C}$	
Maximum DC in all ports		-	-	5	VDC	Device only
DC impedance to ground		100			M Ω	Device only
Device size (L max. x W max. x H max.)		1.8 x 1.4 x 0.5			mm	

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



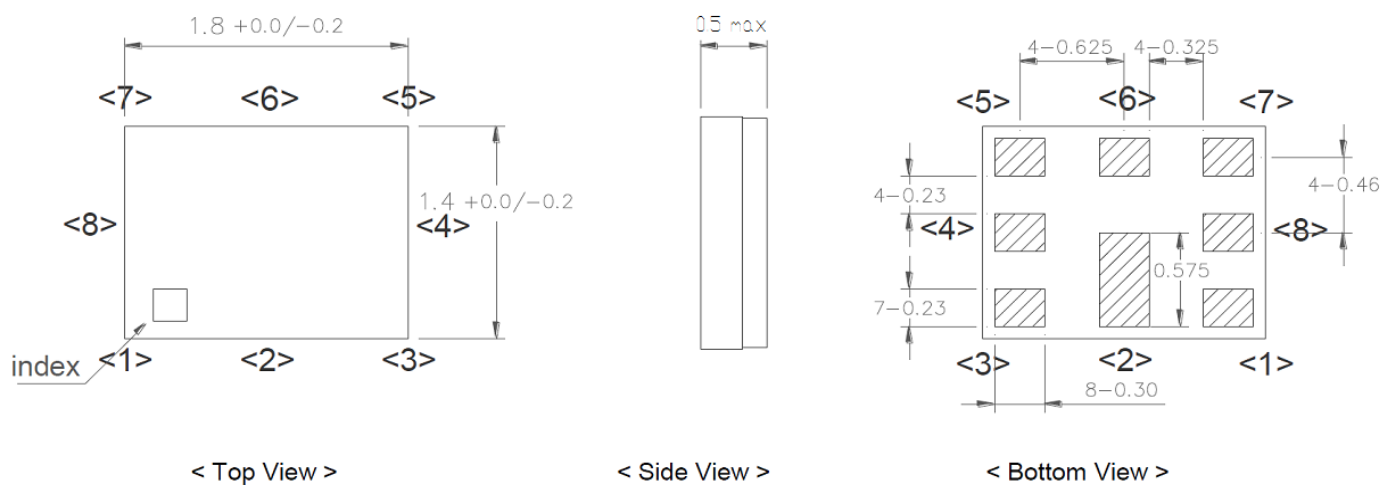
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MSL1

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Dimensions



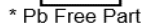
Unit: mm

Figure-1

Pin Configuration

Table-2

Pin No.	Symbol	Function
1	Rx	Receiver
2	GND	Ground
3	Tx	Transmitter
4	GND	Ground
5	GND	Ground
6	ANT	Antenna
7	GND	Ground
8	GND	Ground



Evaluation Circuit

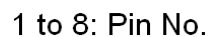


Figure-2

Recommended Foot Print Pattern





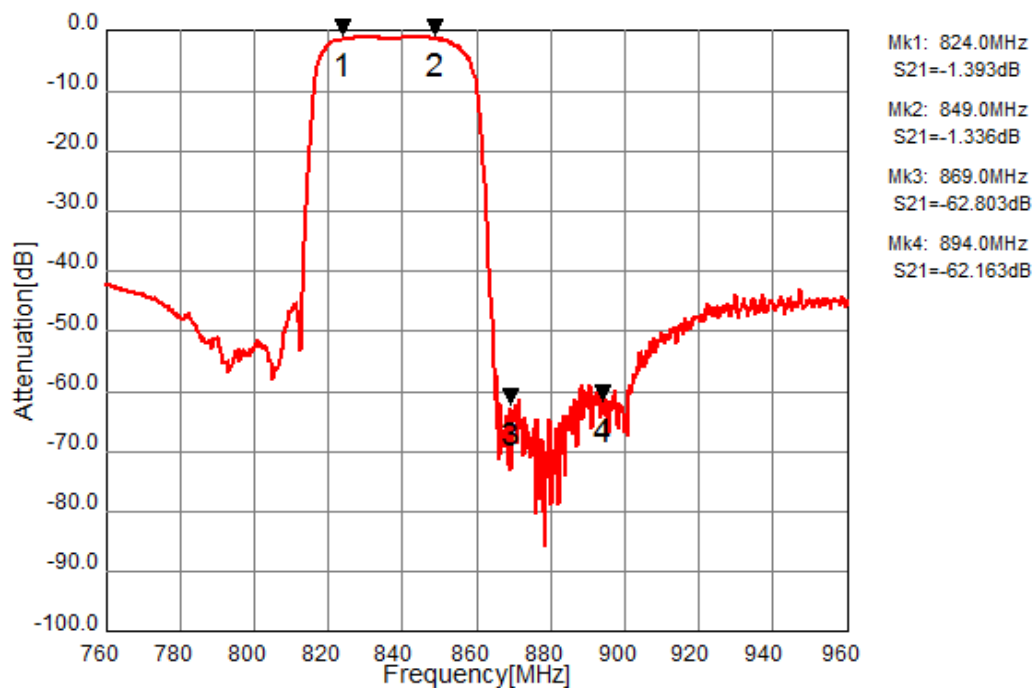
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Electrical Characteristics

Tx to Ant



Ant to Rx

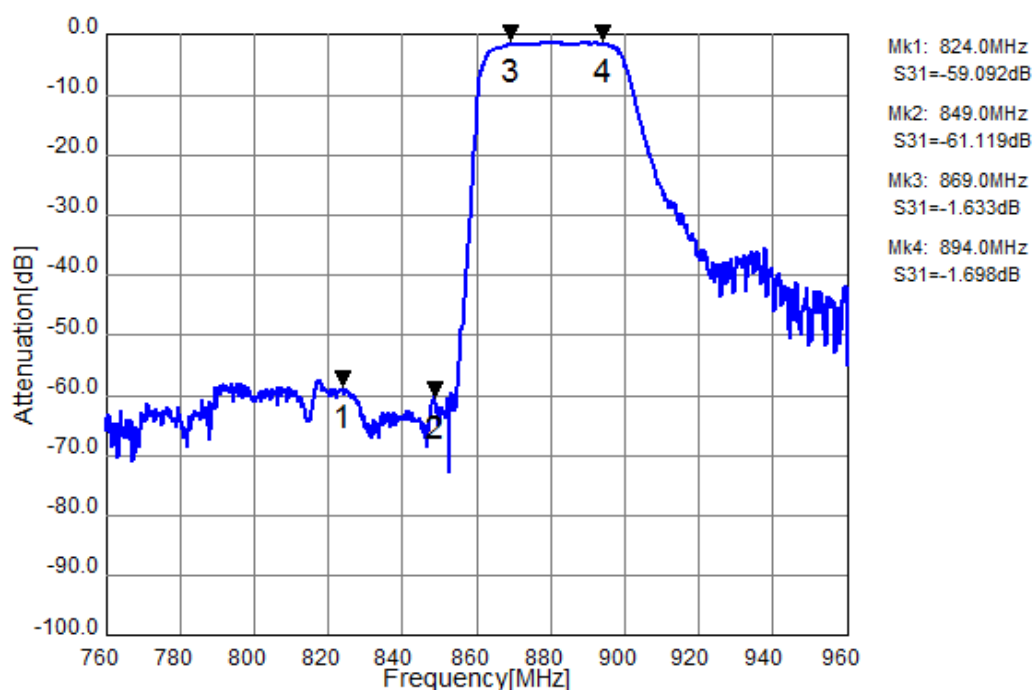


Figure-4-1

These data excludes loss that comes from the test board.

TAIYO YUDEN



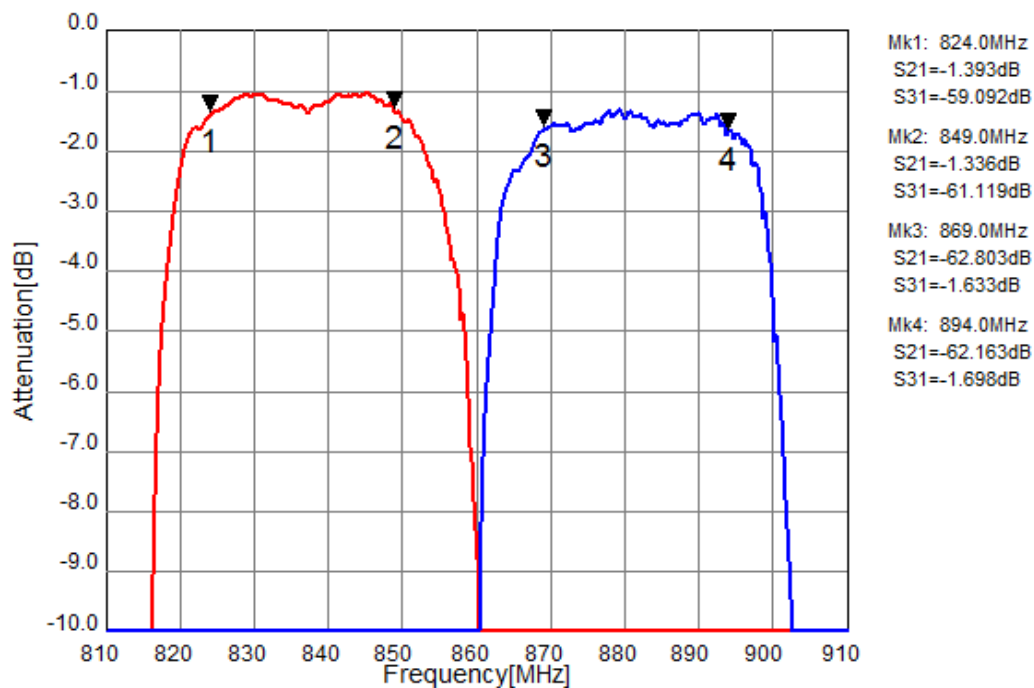
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

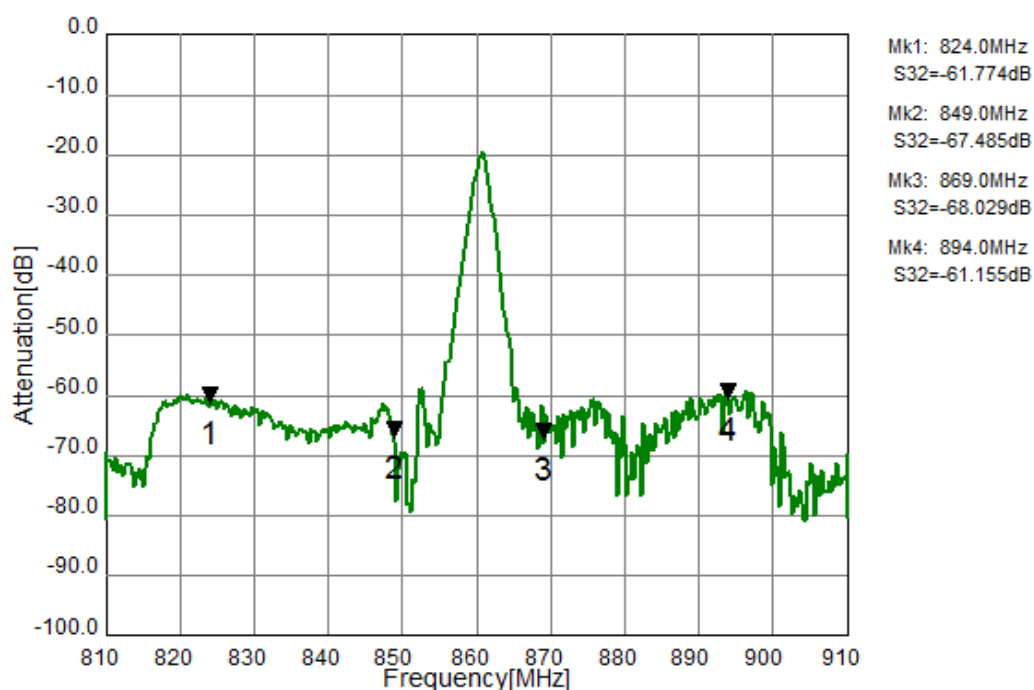


Figure-4-2

These data excludes loss that comes from the test board.

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Tx Port

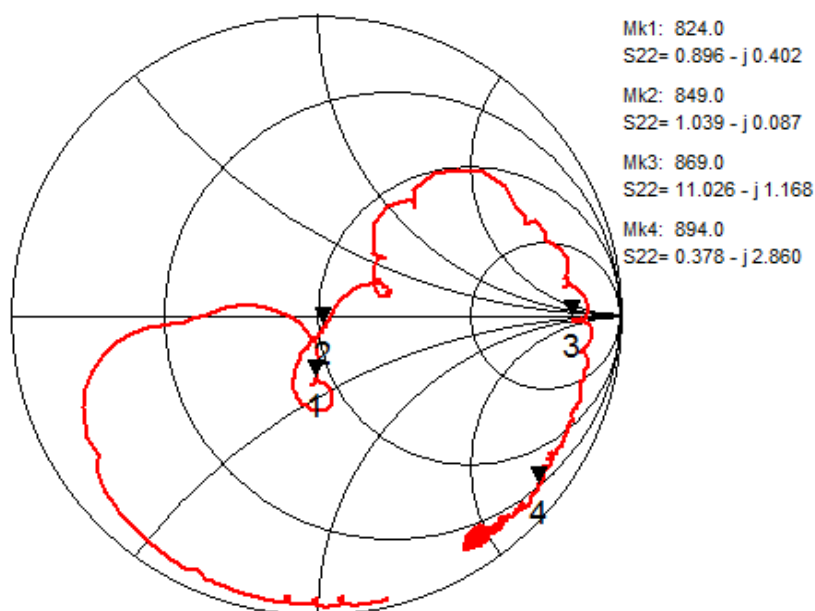
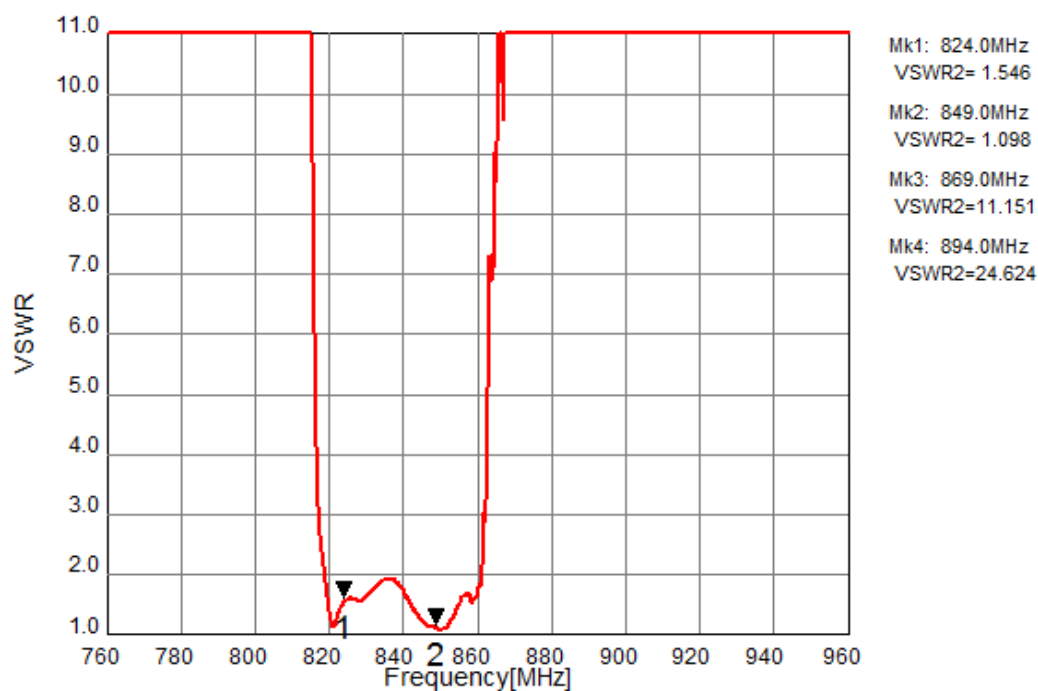


Figure-4-3



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MSL1

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Rx Port

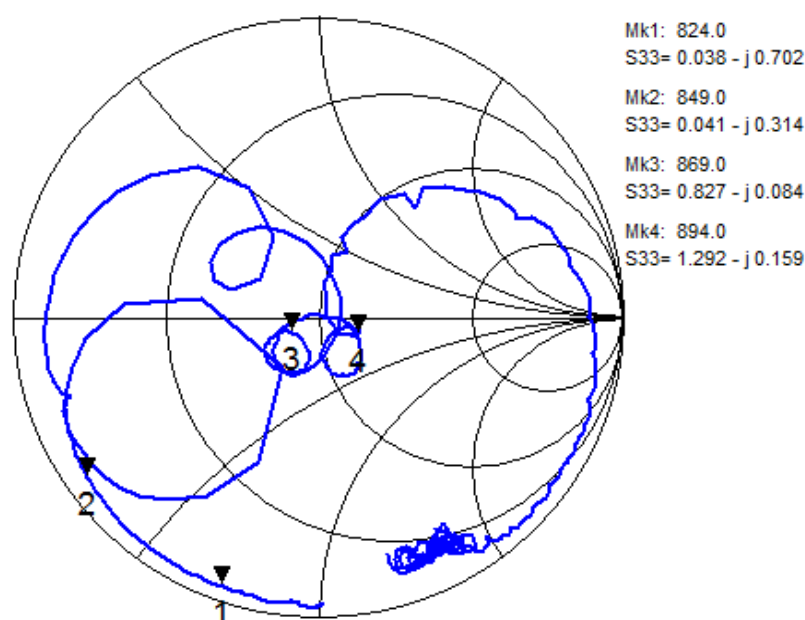
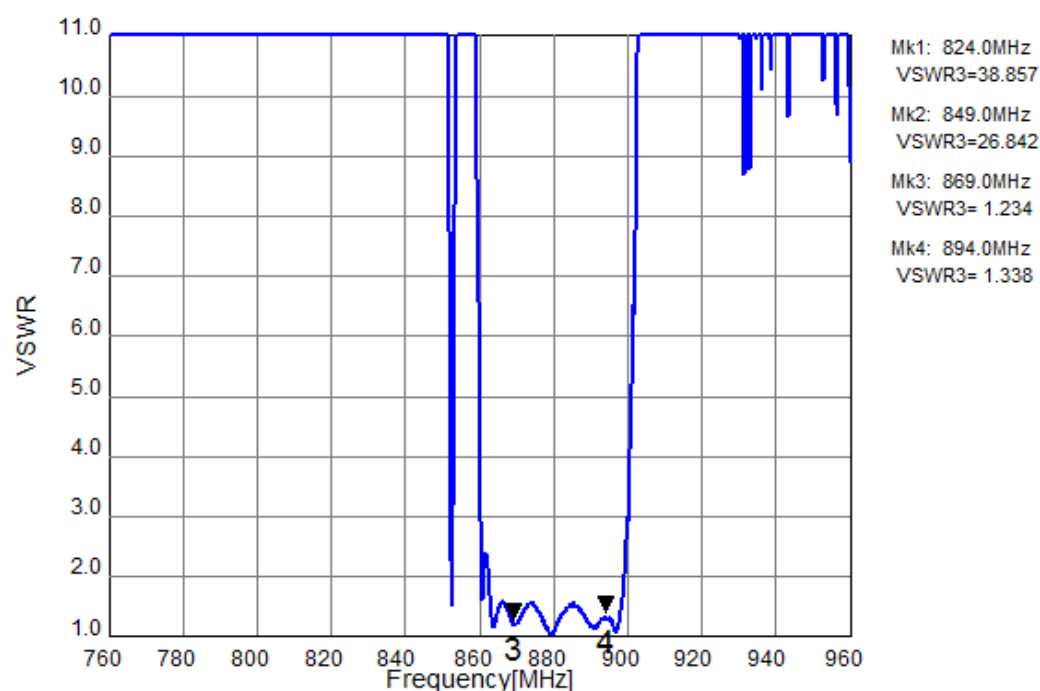


Figure-4-4



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Ant Port

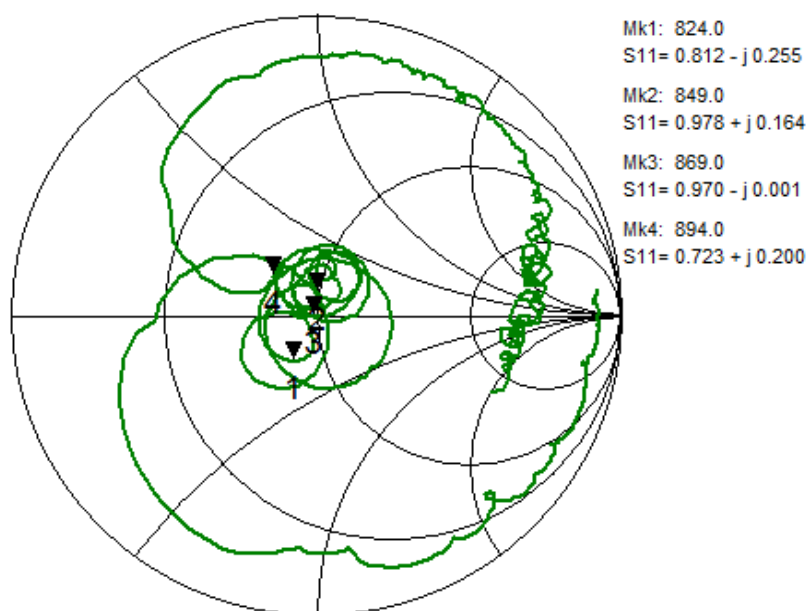
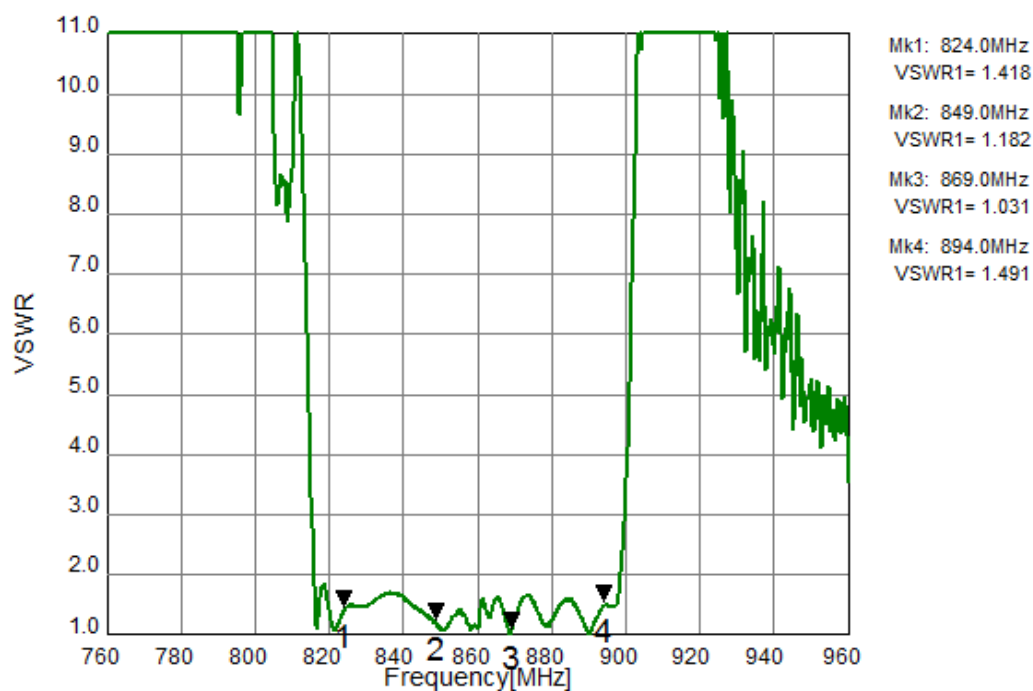


Figure-4-5



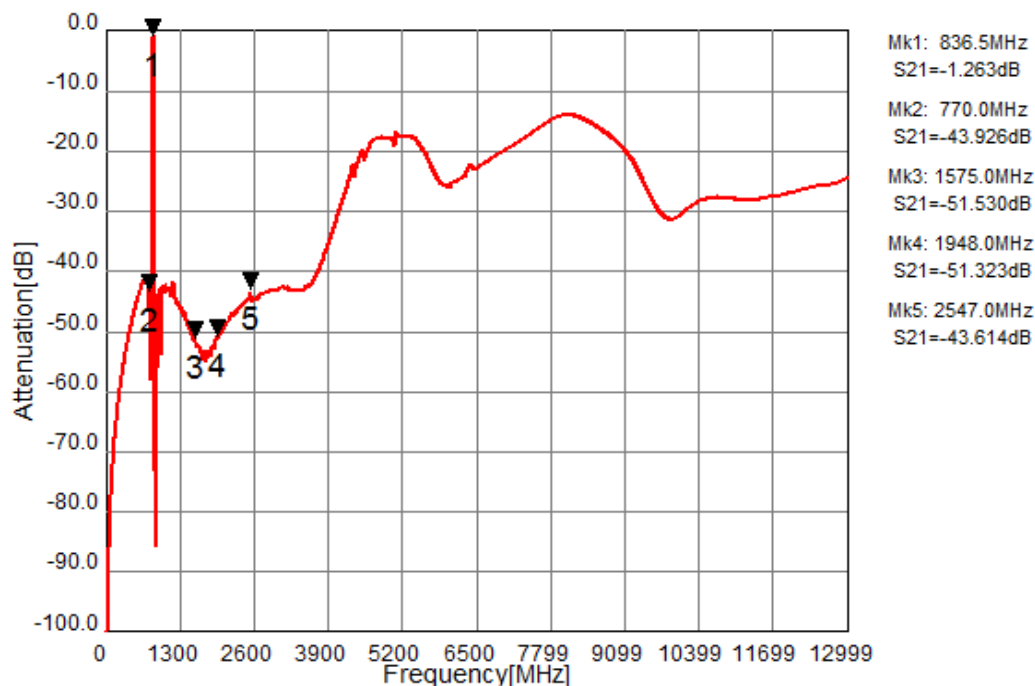
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Tx to Ant(Wide span)



Ant to Rx(Wide span)

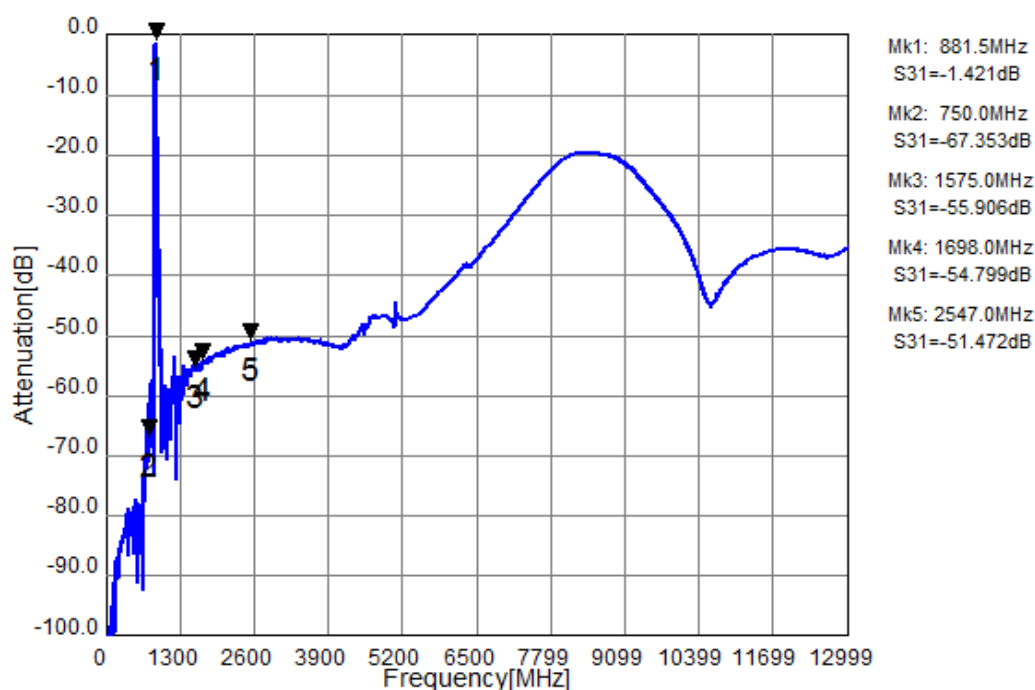


Figure-4-6



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MSL1

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Ordering Code

Standard Ordering Code	Packing	Reel size	Status
D5DA881M5K2E4-Y	Tape & Reel	15,000 pcs.	MP

Option Ordering Code	Packing	Reel size	Status
D5DA881M5K2E4-YA	Tape & Reel	less than 15,000 pcs.	MP
D5DA881M5K2E4-Z	Tape & Reel	3,000 pcs.	MP
D5DA881M5K2E4-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5DA881M5K2E4-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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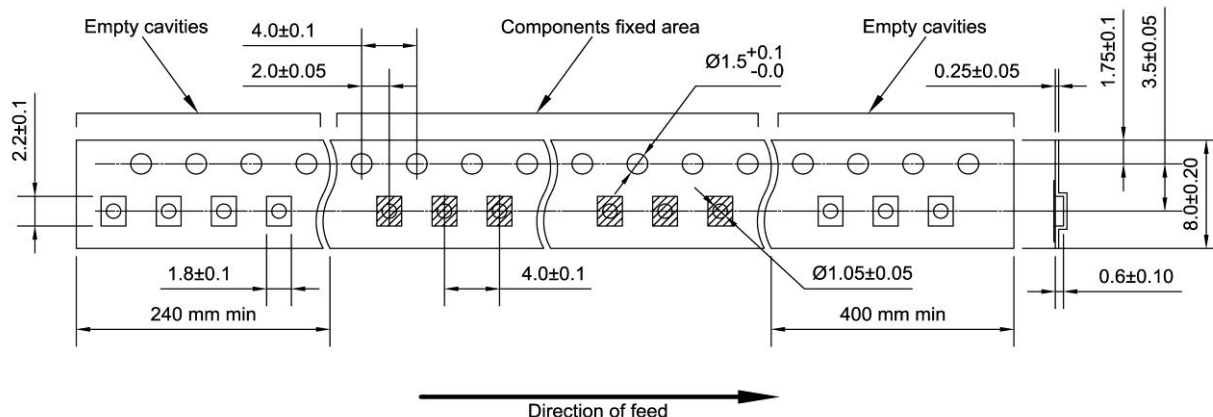


MSL1

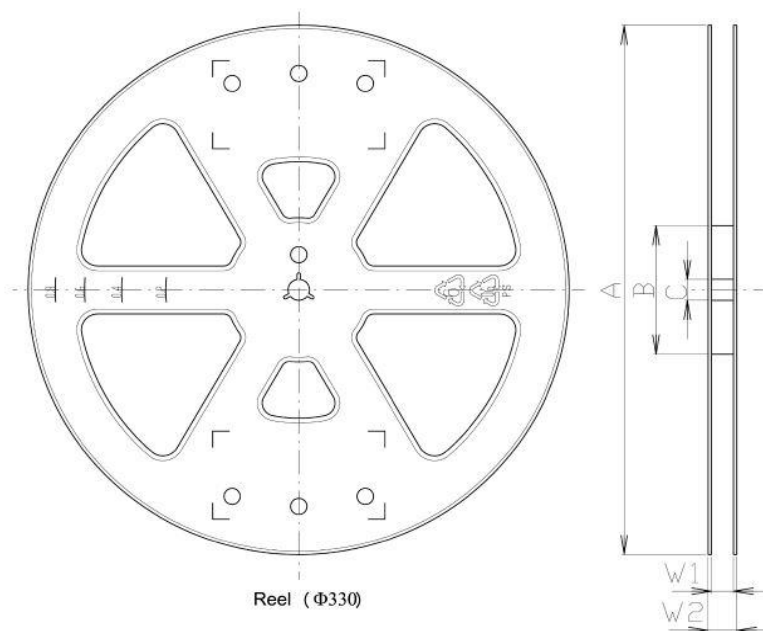
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Tape and Reel Information

Dimensions of Tape (Standard)



Dimensions of Reel



Order	Code	Quantity (pcs./reel)	A	B	C	W1	W2	Tape Pitch
Standard	Y	15,000	φ330	φ100	φ13 ±0.2	9.4 ±1.0	13.4 ±1.0	4.0 ±0.1
Option	Z	3,000	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.
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