



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 20 Duplexer	Date Jun. 11, 2018		
Part Number	D5FC847M0K3NE	Version 2.4adB	Final	

Table 1-1. Electrical Specification

Item		Condition	5	Specification	n	Unit	Remarks	
			(MHz)	Min.	Тур.	Max.		
	Insertion	loss (*1)	832.25 - 861.75	-	1.8	2.5	dB	
	Rip	pple	832 - 862	-	1.0	1.8	dB	
	VOMB	Tx	832 - 862	-	1.6	2.0	-	
	VSWR	Ant	832 - 862	-	1.7	2.0	-	
					IBm,Ta=+5 50000h,CV		-	
Tu to Ant	lanud.	Dower	022.25 064.75		IBm,Ta=+5 E 5MHz 1 50000h		1	
Tx to Ant	input	Power	832.25 - 861.75		IBm,Ta=+5 5000h,CW			
				30dBm,Ta=+50°C LTE 5MHz 1RB 5000h		-		
		791.25 - 820.75	45	54	-	dB		
	Absolute	attanuation	1565 - 1606	45	57	-	dB	
	Absolute a	bsolute attenuation -	1664 - 1724	40	55	-	dB	
			2400 - 2586	35	44	-	dB	
	Insertion	loss (*1)	791.25 - 820.75	-	1.8	3.0	dB	
	Rip	pple	791 - 821	-	0.9	2.3	dB	
	VSWR	Ant	791 - 821	-	1.7	2.3	-	
Ant to Rx	VSWK	Rx	791 - 821	-	1.8	2.2	-	
			832.25 - 861.75	45	53	-	dB	
	Absolute a	attenuation	1623 - 1683	35	47	-	dB	
			2400 - 2545	30	43	-	dB	
Tx to Rx	la -l	ation	832.25 - 861.75	50	55	-	dB	
I X IU KX	ISOR	ation	791.25 - 820.75	53	56	-	dB	
			Tx port		50		Ω	
Termir	nating Impeda	ance	Rx port		50		Ω	
			Ant port		50//10nH		Ω	





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Table 1-2. Electrical Specification

Item	Condition (MHz)	S	Specification		Unit	Remarks
	(IVII IZ)	Min.	Тур.	Max.		
Operating Temperature		-30 to +85		°C		
Maximum DC in all ports		-	-	5	VDC	Device only
DC impedance to ground		100			ΜΩ	Device only
Device size (L typ. x W typ. x H max.)		1.8	8 x 1.4 x 0.	44	mm	

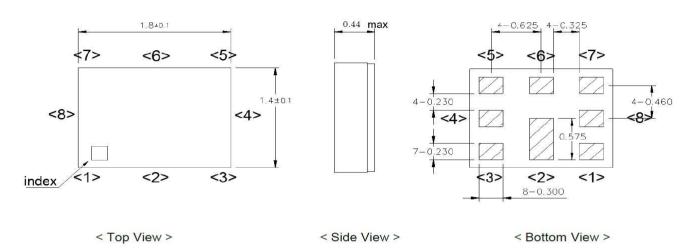
^(*1) Specification of insertion loss excludes loss that comes from the test board.





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Dimensions



Unit: mm

Figure 1. Dimensions

Pin Assignment

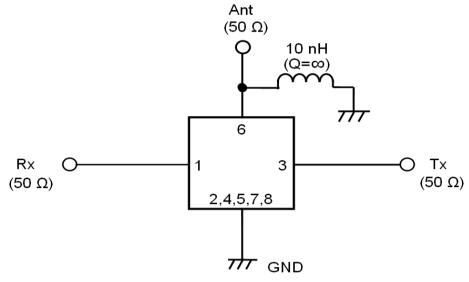
Table 2. Pin Assignment

Pin No.	Pin name	Description
1	Rx	Receiver
2	GND	Ground
3	Tx	Transmitter
4	GND	Ground
5	GND	Ground
6	Ant	Antenna
7	GND	Ground
8	GND	Ground



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Evaluation Circuit



1 to 8: Pin No.

Figure 2. Evaluation Circuit

Recommended Foot Print Pattern

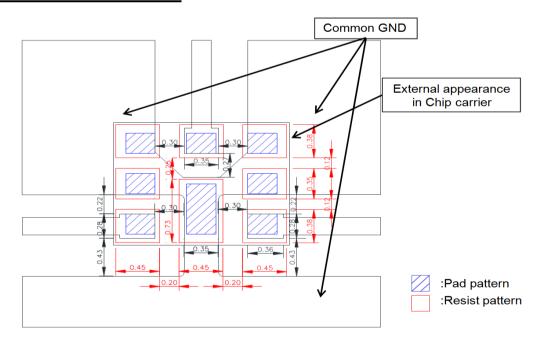


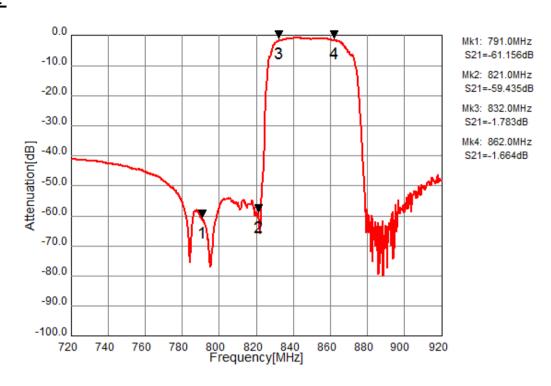
Figure 3. Recommended Foot Print Pattern





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Tx to Ant



Ant to Rx

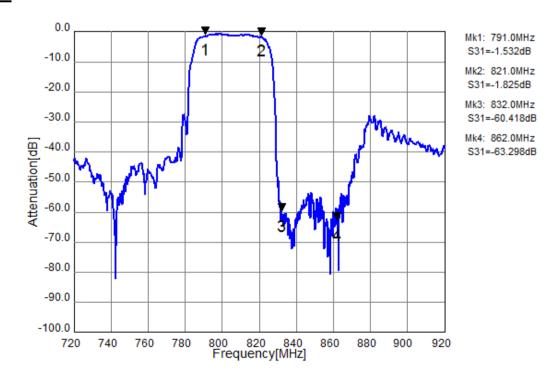


Figure 4-1. Electrical Characteristics

These data exclude loss that comes from the test board.

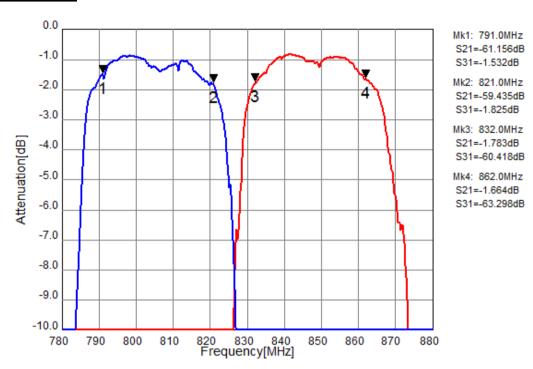






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Tx to Ant, Ant to Rx



Tx to Rx Isolation

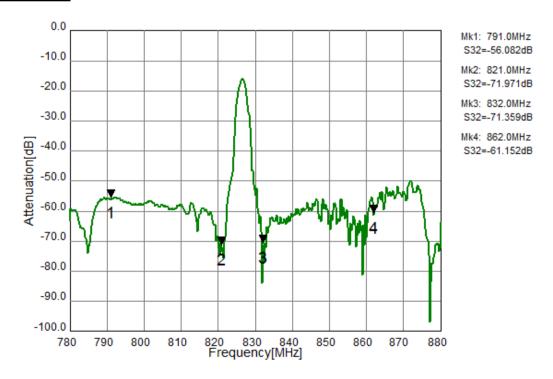


Figure 4-2. Electrical Characteristics

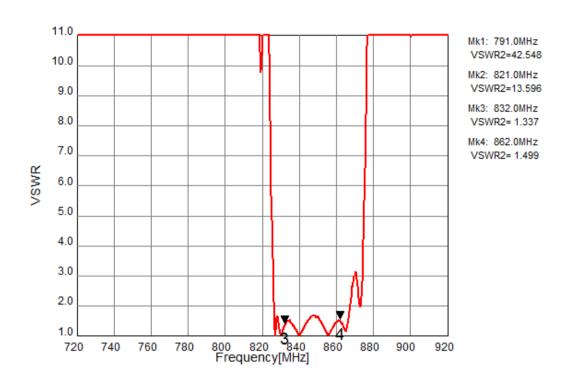






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Tx Port



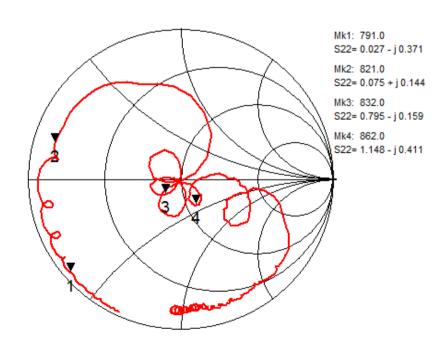


Figure 4-3. Electrical Characteristics

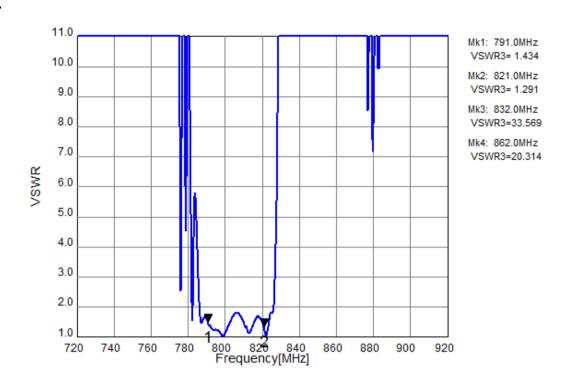






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Rx Port



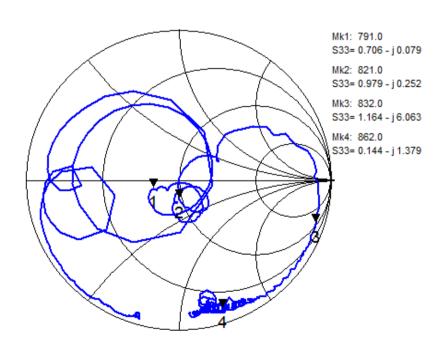


Figure 4-4. Electrical Characteristics

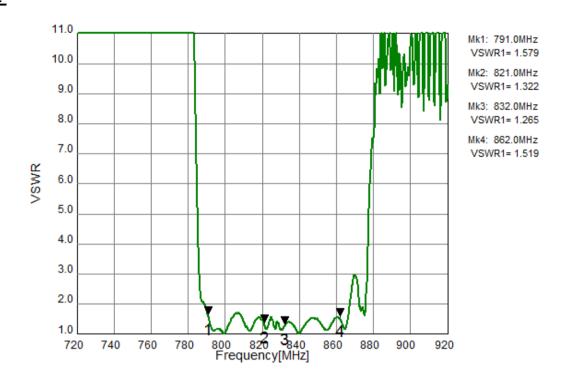






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Ant Port



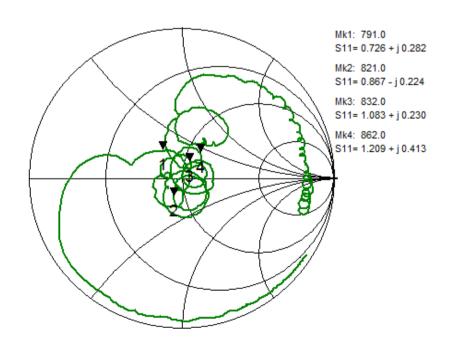


Figure 4-5. Electrical Characteristics

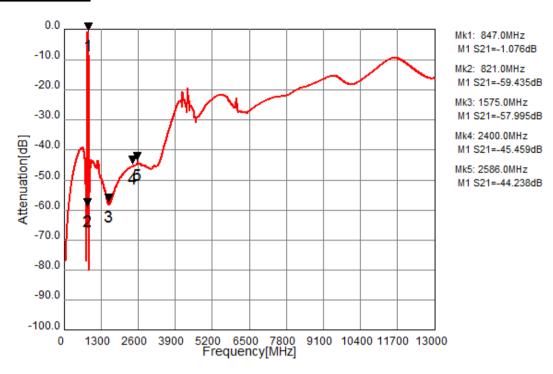






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Tx to Ant(Wide span)



Ant to Rx(Wide span)

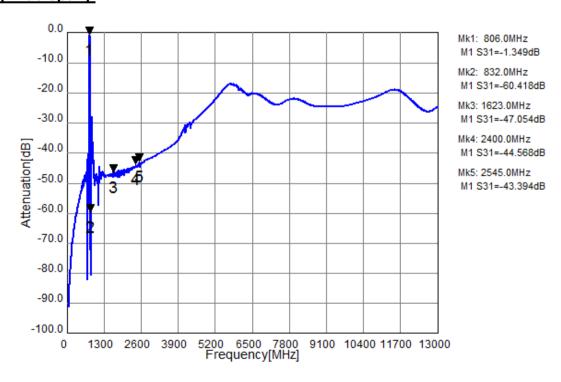


Figure 4-6. Electrical Characteristics







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Ordering Code

Ordering Code	Packing	Reel size	Status
D5FC847M0K3NE-Z	Tape & Reel	3,000 pcs.	MP
D5FC847M0K3NE-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5FC847M0K3NE-Y	Tape & Reel	15,000 pcs.	MP
D5FC847M0K3NE-YA	Tape & Reel	less than 15,000 pcs.	MP
D5FC847M0K3NE-Q	Bulk	few pcs.	MP

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

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.
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- 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.

^{*}MP : Mass Production