



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band 7 Duplexer	Date	Mar. 23, 2018	
Part Number	D6DA2G655K2F1	Version 1.1aaA	Final	

Table 1-1. Electrical Specification

	Item		Condition (MHz)	5	Specification	on	Unit	Remarks
			(IVIFIZ)	Min.	Тур.	Max.		
	Insertion loss (*1)		2500 2570	-	2.1	3.1	dB	2500 - 2535 MHz
	msertion	11055 (1)	2500 - 2570	-	1.8	2.7	dB	2535 - 2570 MHz
	Rip	pple	2500 - 2570	-	0.9	2.6	dB	
				-	0.4	1.0	dB	Ta = 25 °C
	Ripple (a	ny 5 MHz)	2500 - 2570	-	0.6	1.4	dB	
		Tx	2500 - 2570	-	1.4	2.0	-	
	VSWR	Ant	2500 - 2570	-	1.5	2.0	-	
				+5	+29 dBm, CW, 50 °C, 5000		-	
	Input	Power		+29 dBm, LTE 5 MHz 1RB, +50 ℃, 5000 h		1		
Tx to Ant	Input Power		2500 - 2570	+29.5 dBm, CW, +50 °C, 2000 h		-		
				+29.5 dBm, LTE 5 MHz 1RB, +50 °C, 2000 h		-		
			50 - 1606	36	40	-	dB	
			1805 - 1880	33	37	-	dB	
	A 5	-#	1900 - 2025	33	37	-	dB	
	ADSOIUTE 8	attenuation	2110 - 2170	32	36	-	dB	
			2155 - 2200	33	36	-	dB	
			2300 - 2400	37	41	-	dB	
			2403 - 2421	45	51	-	dB	
			2408 - 2426	46	53	-	dB	
			2413 - 2431	48	54	-	dB	
	Aba - list "	enueti (*0)	2418 - 2436	49	54	-	dB	
	Absolute att	enuation (*2)	2423 - 2441	47	53	-	dB	
			2428 - 2446	46	52	-	dB	
			2433 - 2451	46	51	-	dB	
			2438 - 2456	41	51	-	dB	





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Table 1-2. Electrical Specification

	Item		Condition	S	Specification	n	Unit	Remarks
			(MHz)	Min.	Тур.	Max.		
	Absolute attenuation (*2)		2443 - 2461	45	50	-	dB	
			2448 - 2466	45	50	-	dB	
			2453 - 2471	42	50	-	dB	
			2458 - 2476	22	49	-	dB	
Tx to Ant			2463 - 2481	13	40	-	dB	
			2620 - 2690	52	58	-	dB	
	Absolute :	attenuation	3400 - 5000	32	37	-	dB	
	7.500.610	2110110011011	5000 - 5140	47	51	-	dB	
			5140 - 7710	42	46	-	dB	
	Insertion loss (*1)		2620 - 2690	-	2.2	2.8	dB	2620 - 2655 MHz
		()	2020 2000	-	1.9	2.6	dB	2655 - 2690 MHz
	VSWR	Ant	2620 - 2690	1	1.4	2.0	-	
	VOVIIC	Rx	2620 - 2690	ı	1.7	2.2	-	
			45	60	90	-	dB	
			718 - 748	53	57	-	dB	
			814 - 849	51	55	-	dB	
			832 - 862	51	55	-	dB	
			880 - 915	50	54	-	dB	
Ant to Rx			1710 - 1785	40	44	-	dB	
			1920 - 1980	39	43	-	dB	
			2400 - 2500	45	49	-	dB	
	Absolute a	attenuation	2402 - 2470	45	50	-	dB	
			2500 - 2570	51	55	-	dB	
			2570 - 2600	1	7	-	dB	
			2775 - 2790	60	65	-	dB	
			2775 - 6000	48	52	-	dB	
			4900 - 5300	57	62	-	dB	
			5300 - 5950	53	58	-	dB	
			7620 - 7830	43	48	-	dB	
			7860 - 8070	42	47	-	dB	
Tx to Rx	Isol	ation	2500 - 2570	57	60	-	dB	2500 - 2535 MHz





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Table 1-3. Electrical Specification

ltem		Condition (MHz)	S	Specification	n	Unit	Remarks
		(1011 12)	Min.	Тур.	Max.		
		2500 - 2570	55	58	-	dB	2535 - 2570 MHz
Tx to Rx	Tx to Rx Isolation	2620 - 2690	56	61	-	dB	2620 - 2655 MHz
		2020 - 2090	54	60	-	dB	2655 - 2690 MHz
		Tx port	50			Ω	
Termir	nating Impedance	Rx port		50		Ω	
		Ant port	50 // 3.3 nH		1	Ω	
	Operating Temperature		-30 to +85		i	°C	
Maximum DC in all ports		5		5 VDC		VDC	Device only
	DC impedance to ground		100			МΩ	Device only
Г	Device size (L max. x W ma	ıx. 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.

^{*2} Integrated attenuation per 18 MHz.





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Dimensions

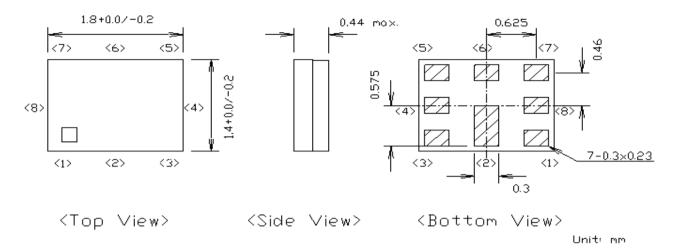


Figure 1. Dimensions

Pin Assignment

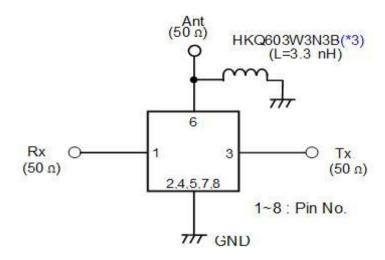
Table 2. Pin Assignment

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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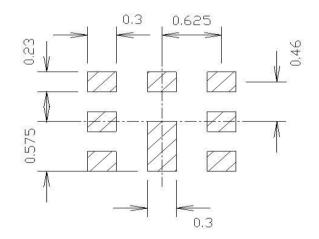
Evaluation Circuit



(*3) Matching inductor is used TAIYO YUDEN inductor HKQ0603W series'.

Figure 2. Evaluation Circuit

Recommended Foot Print Pattern



Unit: mm

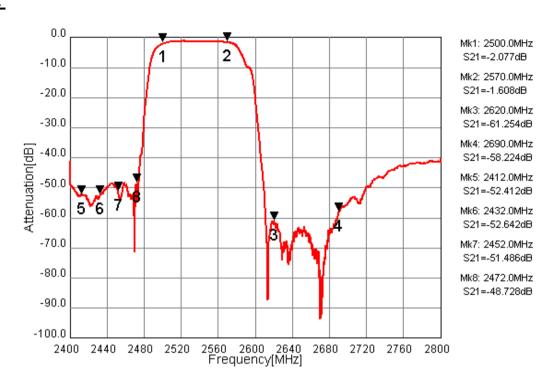
Figure 3. Recommended Foot Print Pattern





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Tx to Ant



Ant to Rx

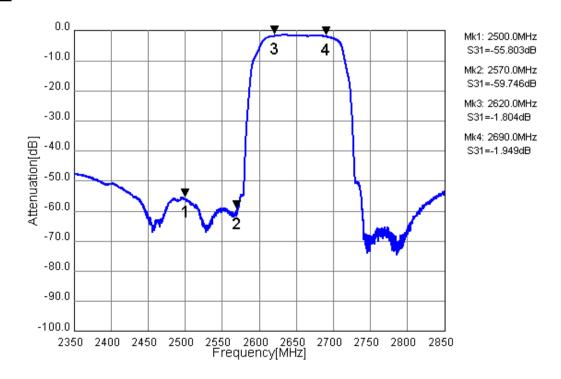


Figure 4-1. Electrical Characteristics

These data exclude loss that comes from the test board.

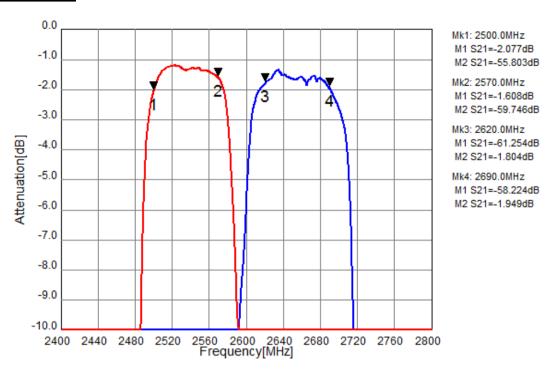






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Tx to Ant, Ant to Rx



Tx to Rx Isolation

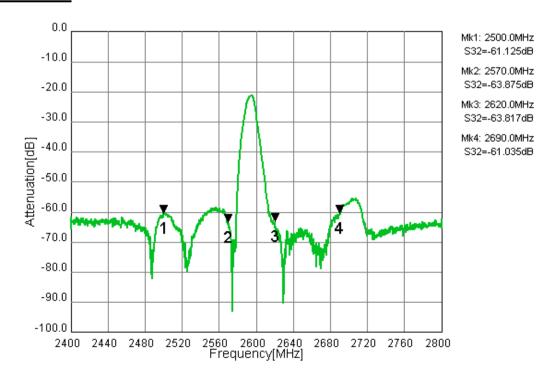


Figure 4-2. Electrical Characteristics

These data exclude loss that comes from the test board.

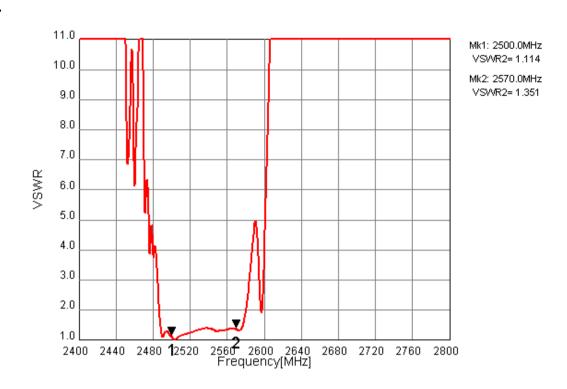






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Tx Port



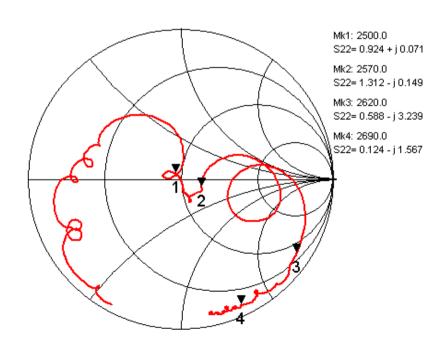


Figure 4-3. Electrical Characteristics

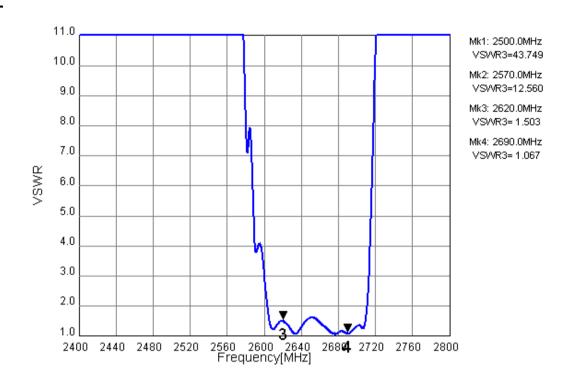






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Rx Port



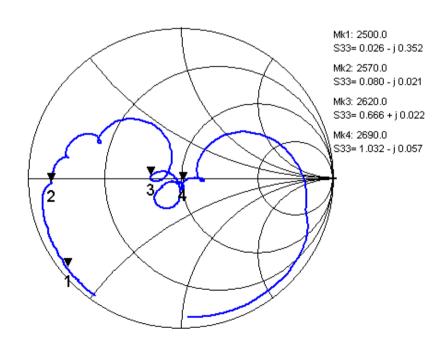


Figure 4-4. Electrical Characteristics

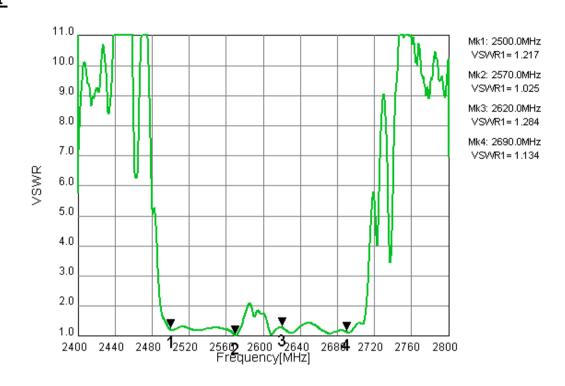






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Ant Port



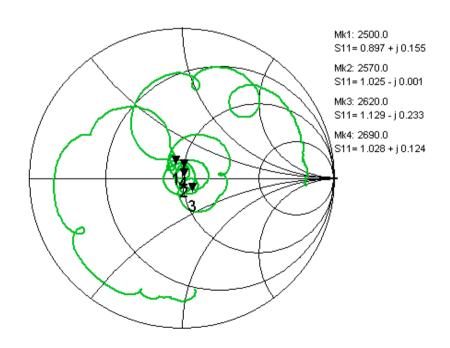


Figure 4-5. Electrical Characteristics

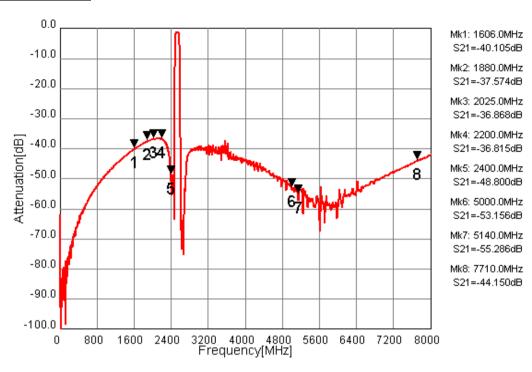






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Tx to Ant (Wide span)



Ant to Rx (Wide span)

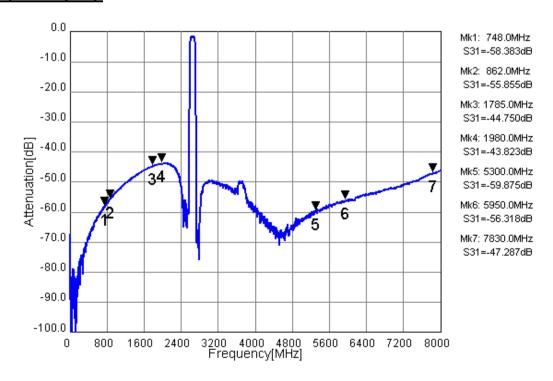


Figure 4-6. Electrical Characteristics







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Tx to Rx Isolation (Wide span)

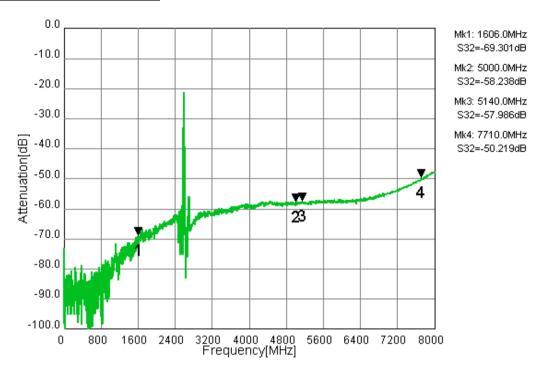


Figure 4-7. Electrical Characteristics





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

Ordering Code	Packing	Reel size	Status
D6DA2G655K2F1-Z	Tape & Reel	3,000 pcs.	MP
D6DA2G655K2F1-ZA	Tape & Reel	less than 3,000 pcs.	MP
D6DA2G655K2F1-Y	Tape & Reel	15,000 pcs.	MP
D6DA2G655K2F1-YA	Tape & Reel	less than 15,000 pcs.	MP
D6DA2G655K2F1-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.
- 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.

^{*}MP : Mass Production