



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band 14 Duplexer	Date	Mar. 07, 2018
Part Number	D5DA793M0K2K2	Version 5.1edB	Final

Table 1-1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks
			Min.	Typ.	Max.		
Tx to Ant	Insertion loss (*1)	788 - 798	-	1.2	1.5	dB	
	Ripple	788 - 798	-	0.3	0.7	dB	
	VSWR	Tx	788 - 798	-	1.3	2.0	-
		Ant	788 - 798	-	1.4	2.0	-
	Input Power	788 - 798	+30dBm, CW, +50°C, 5000h			-	
			+30dBm, LTE5MHz 1RB, +50°C, 5000h			-	
	Absolute attenuation	758 - 768	49	58	-	dB	
		769 - 775	17	-	-	dB	+45°C~+85°C
			20	36	-	dB	-30°C~+45°C
		799 - 805	0.7	1.1	-	dB	
		869 - 894	40	44	-	dB	
		1554 - 1565	42	47	-	dB	
		1565 - 1606	44	47	-	dB	
		1800 - 1880	44	50	-	dB	
		1930 - 2000	46	52	-	dB	
		2364 - 2394	33	52	-	dB	
		2400 - 2500	32	50	-	dB	
		3152 - 3192	27	42	-	dB	
		4900 - 5950	10	17	-	dB	



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Table 1-2. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min.	Typ.	Max.			
Ant to Rx	Insertion loss (*1)	758.25 - 767.75	-	2.2	3.2	dB		
		758 - 768	-	2.3	3.3	dB		
	Ripple		758 - 768	-	0.7	2.0	dB	
	VSWR	Ant	758 - 768	-	1.6	2.0	-	
		Rx	758 - 768	-	1.6	2.0	-	
	Absolute attenuation		10 - 698	45	55	-	dB	
			698 - 716	43	56	-	dB	
			716 - 728	27	39	-	dB	
			776 - 777.34	22	-	-	dB	-30°C~0°C
				35	41	-	dB	0°C~+85°C
			777.34 - 780	35	40	-	dB	
			780 - 787	35	41	-	dB	
			788 - 798	50	61	-	dB	
			798 - 6000	30	36	-	dB	
			1546 - 1566	46	53	-	dB	
			1710 - 1980	42	52	-	dB	
			2334 - 2364	38	50	-	dB	
	2400 - 2690	40	50	-	dB			
Tx to Rx	Isolation	788 - 798	59	63	-	dB		
		758 - 768	54	57	-	dB		
Terminating Impedance		Tx port	50			Ω		
		Rx port	50			Ω		
		Ant port	50//12nH			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 max. x W max. x H max.)			1.8 x 1.4 x 0.44			mm		

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



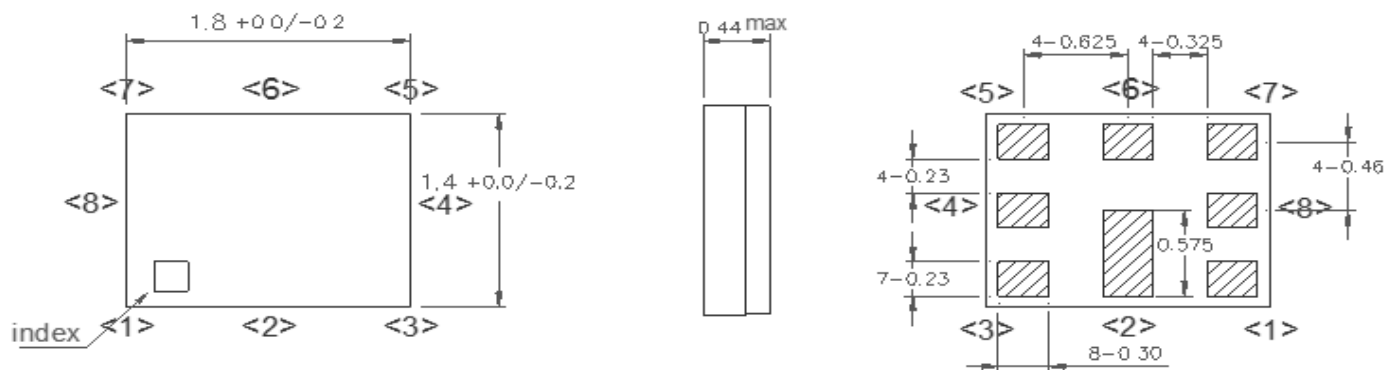
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Dimensions



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

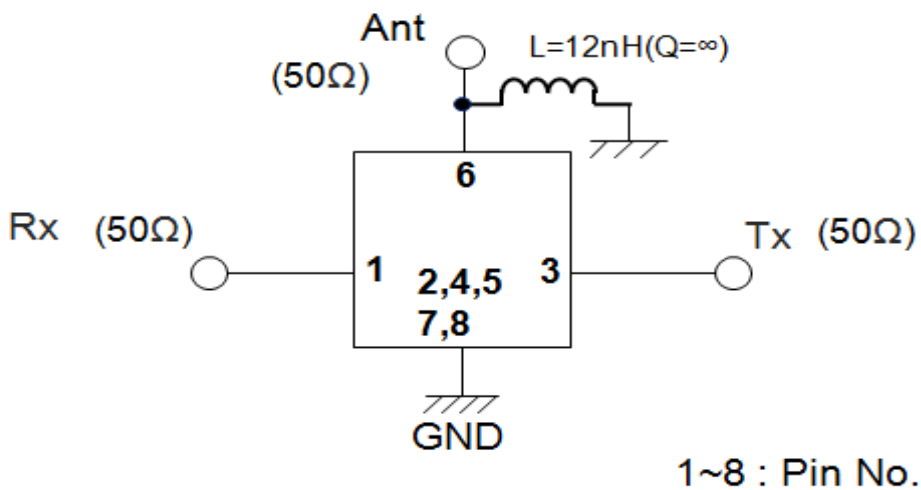


Figure 2. Evaluation Circuit

Recommended Foot Print Pattern

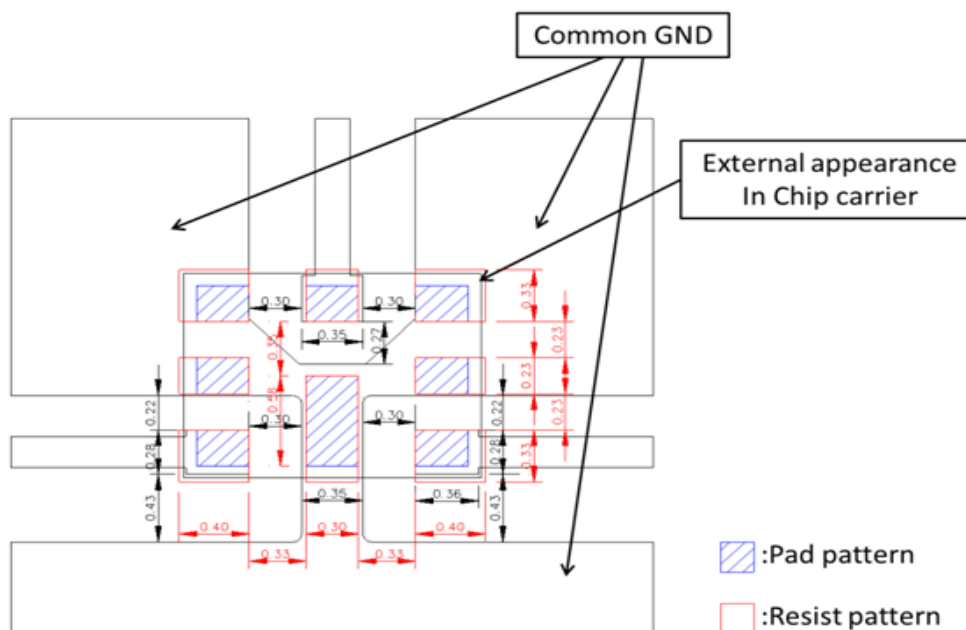


Figure 3. Recommended Foot Print Pattern



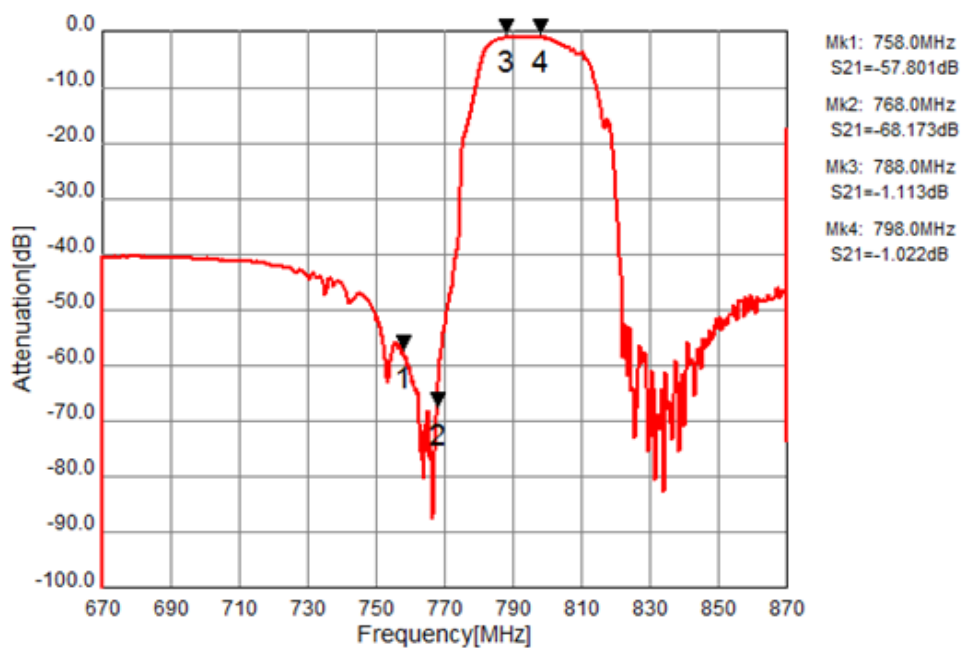
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Tx to Ant



Ant to Rx

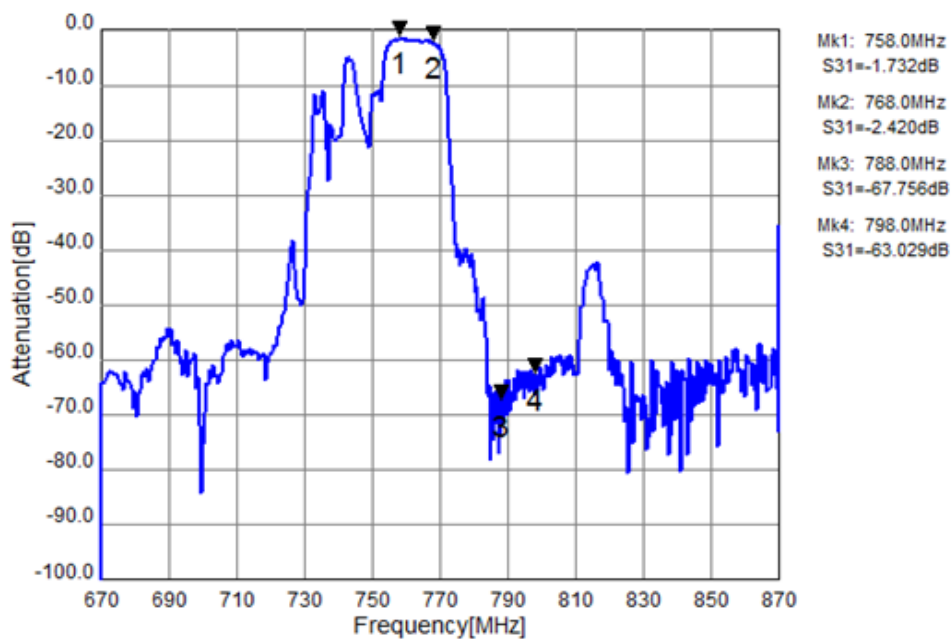


Figure 4-1. Electrical Characteristics

TAIYO YUDEN



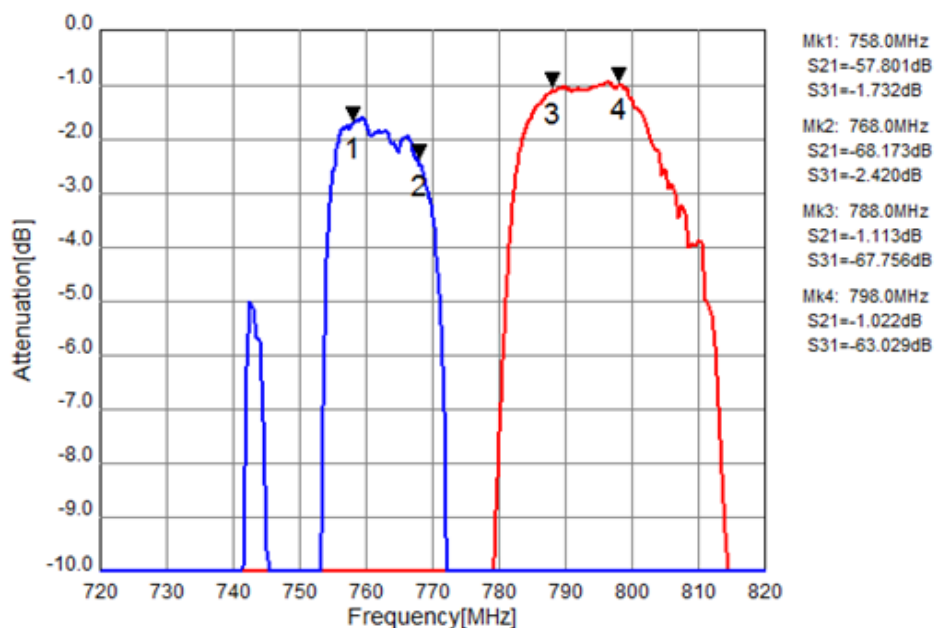
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

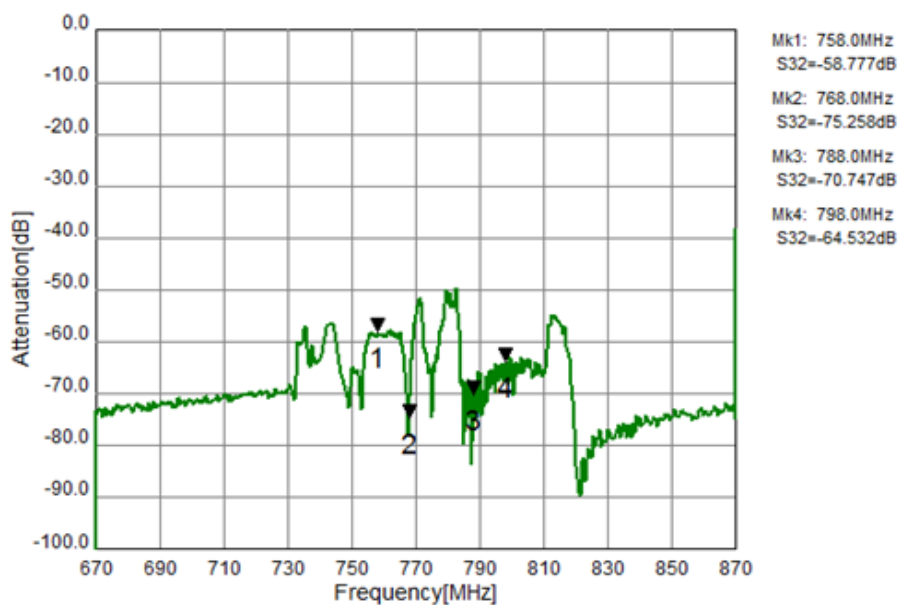


Figure 4-2. Electrical Characteristics



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Tx Port

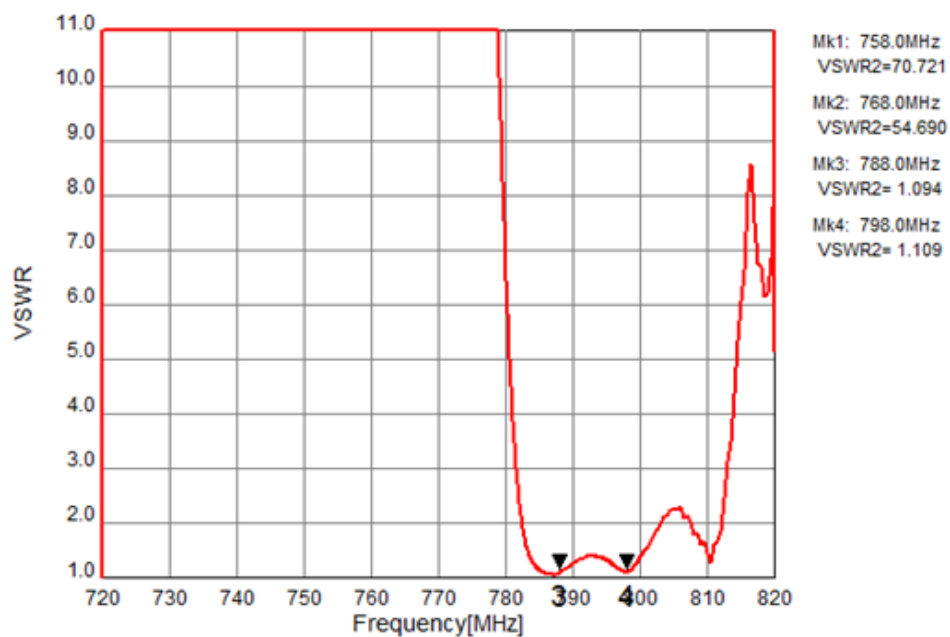
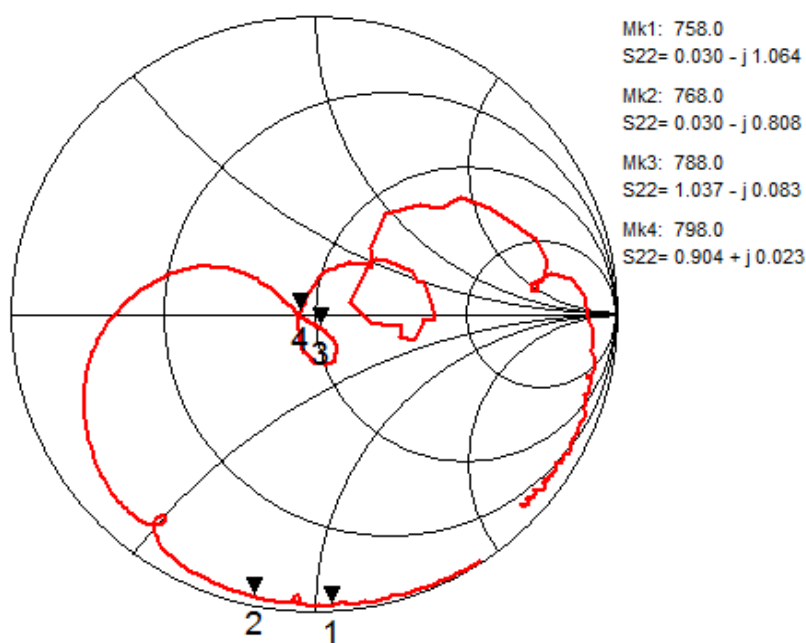


Figure 4-3. Electrical Characteristics



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Rx Port

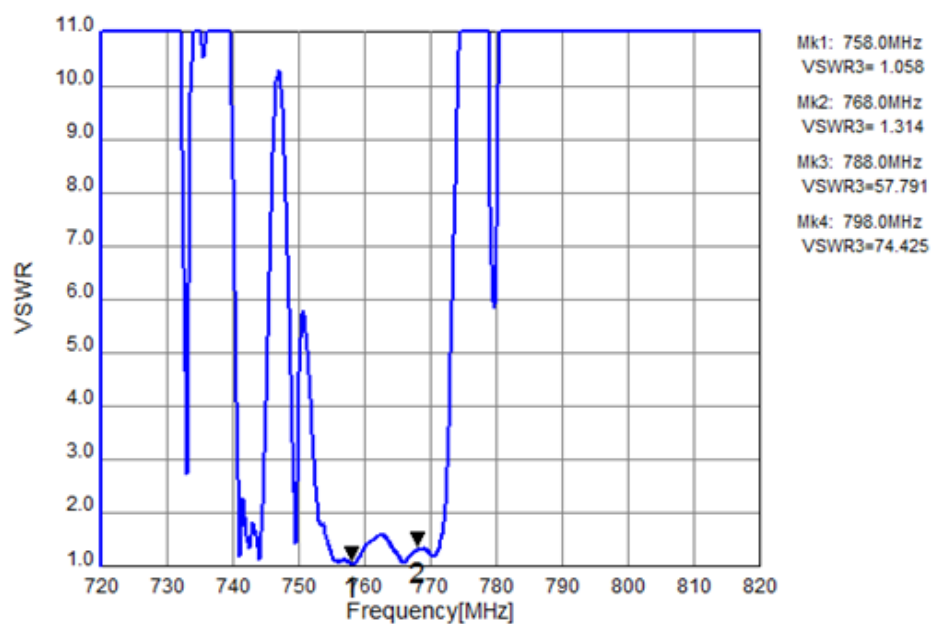
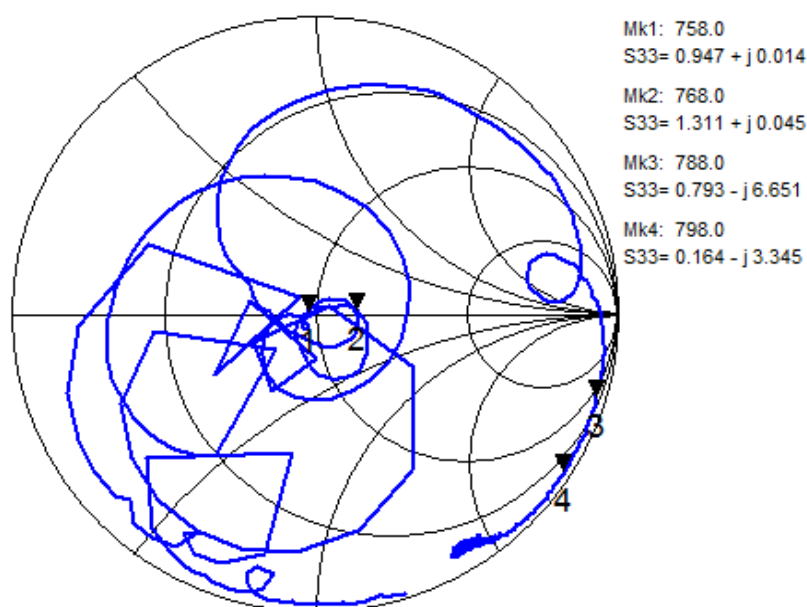


Figure 4-4. Electrical Characteristics



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Ant Port

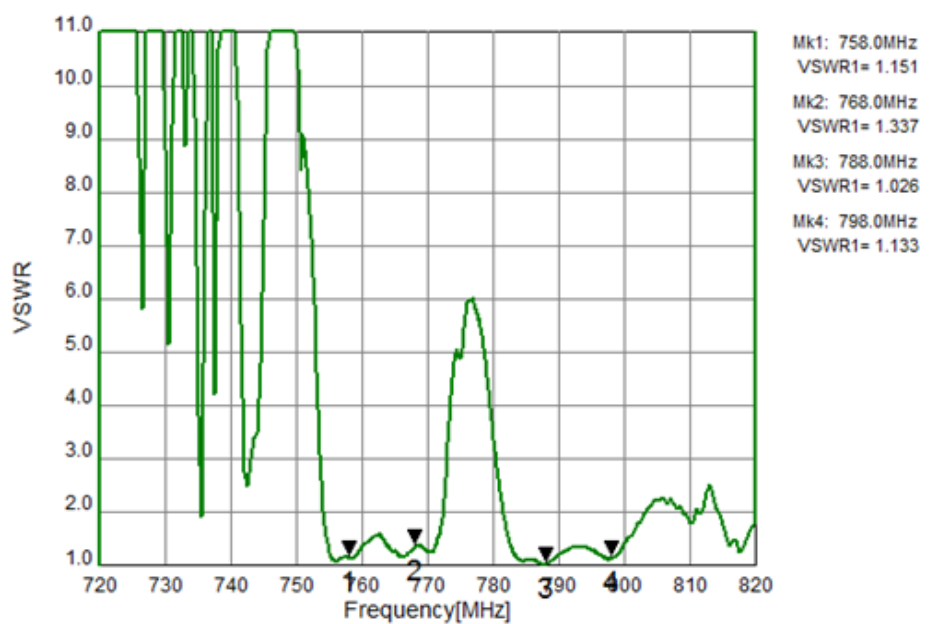
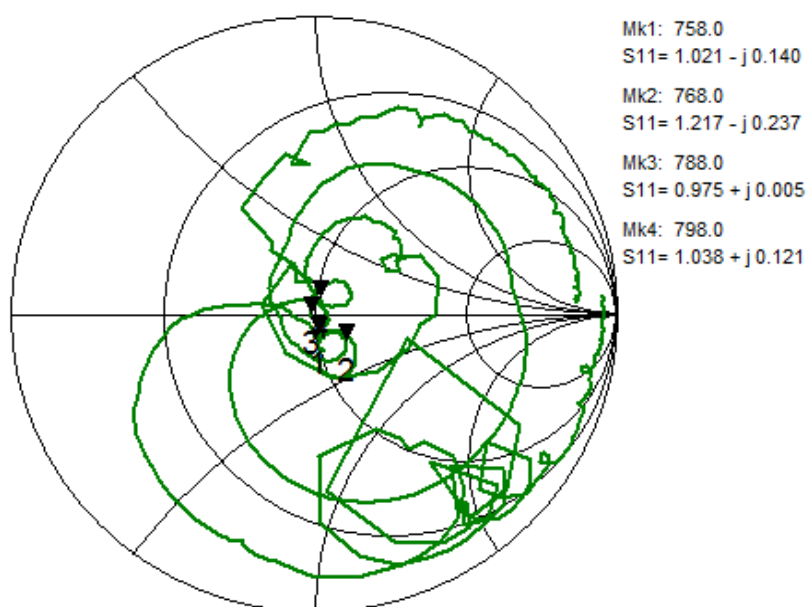


Figure 4-5. Electrical Characteristics



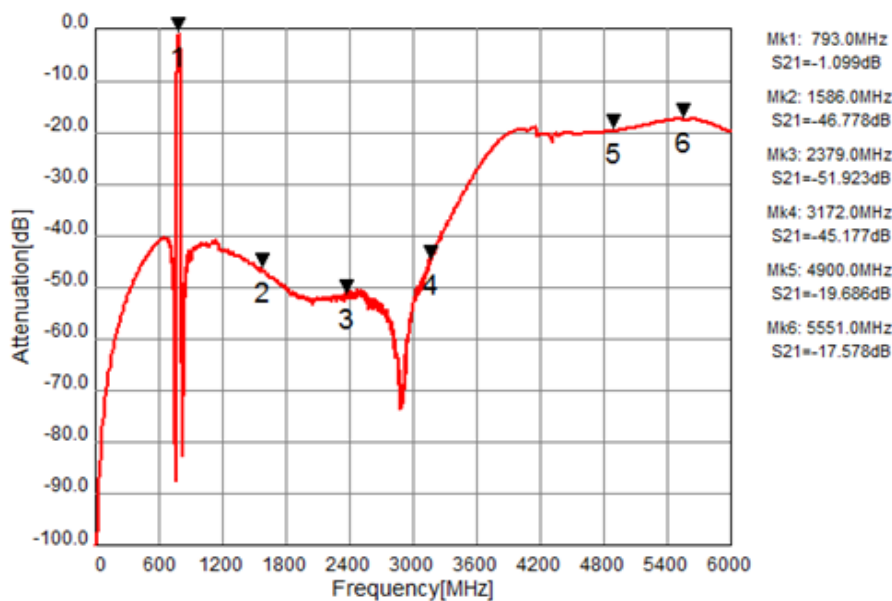
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Tx to Ant (Wide span)



Ant to Rx (Wide span)

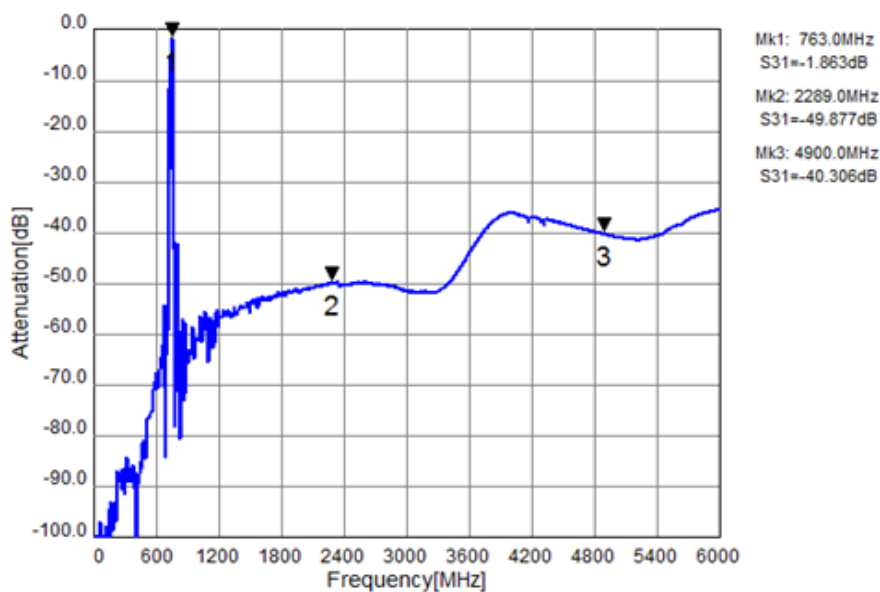


Figure 4-6. Electrical Characteristics



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Tx to Rx Isolation (Wide span)

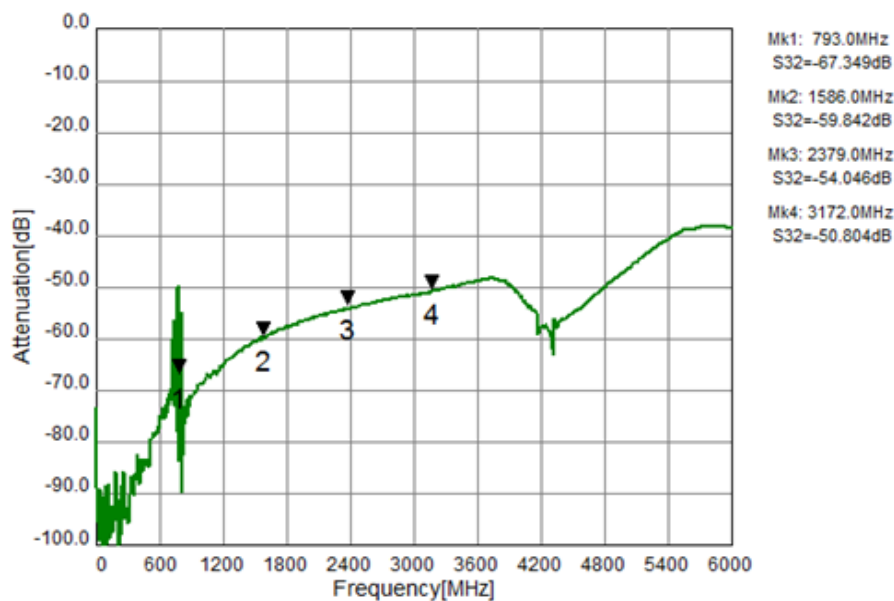


Figure 4-7. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
D5DA793M0K2K2-Z	Tape & Reel	3,000 pcs.	MP
D5DA793M0K2K2-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5DA793M0K2K2-Y	Tape & Reel	15,000 pcs.	MP
D5DA793M0K2K2-YA	Tape & Reel	less than 15,000 pcs.	MP
D5DA793M0K2K2-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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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).
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