



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 17 Duplexer	Date	Apr.13. 2016
Part Number	D5DA740M0K2L4	Version 1.1aaA	Final

Table 1. Electrical Specification

Item			Condition (MHz)	Specification			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss(*1)		704-716	-	1.25	1.85	dB	
	Ripple		704-716	-	0.4	1.0	dB	
	VSWR	Tx	704-716	-	1.7	2.0	-	
		Ant		-	1.5	2.0	-	
	Input Power		704-716	29dBm, Ta=+50°C ,50000h, CW			-	
	Absolute attenuation		734-746	50	58	-	dB	
			746-768	30	45	-	dB	
			768-805	25	36	-	dB	
			869-894	30	35	-	dB	
			1408-1432	30	40	-	dB	
			1559-1606	35	43	-	dB	
			2110-2155	30	40	-	dB	
			2400-2484	25	36	-	dB	
			2816-2864	15	33	-	dB	
			4900-5850	5	11	-	dB	
ANT to Rx	Insertion loss(*1)		734-746	-	1.65	2.35	dB	
	Ripple		734-746	-	0.4	1.2	dB	
	VSWR	Ant	734-746	-	1.5	2.0	-	
		Rx		-	1.5	2.0	-	
	Absolute attenuation		704-716	55	64	-	dB	
			776-805	35	41	-	dB	
			814-960	40	57	-	dB	
			1710-1755	40	54	-	dB	
			1850-1920	40	53	-	dB	
			2202-2238	40	51	-	dB	
2400-2500			40	50	-	dB		
4900-5950			40	50	-	dB		
Tx to Rx	Isolation		704-716	60	65	-	dB	
			734-746	55	60	-	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 typ. x W typ. 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.

TAIYO YUDEN



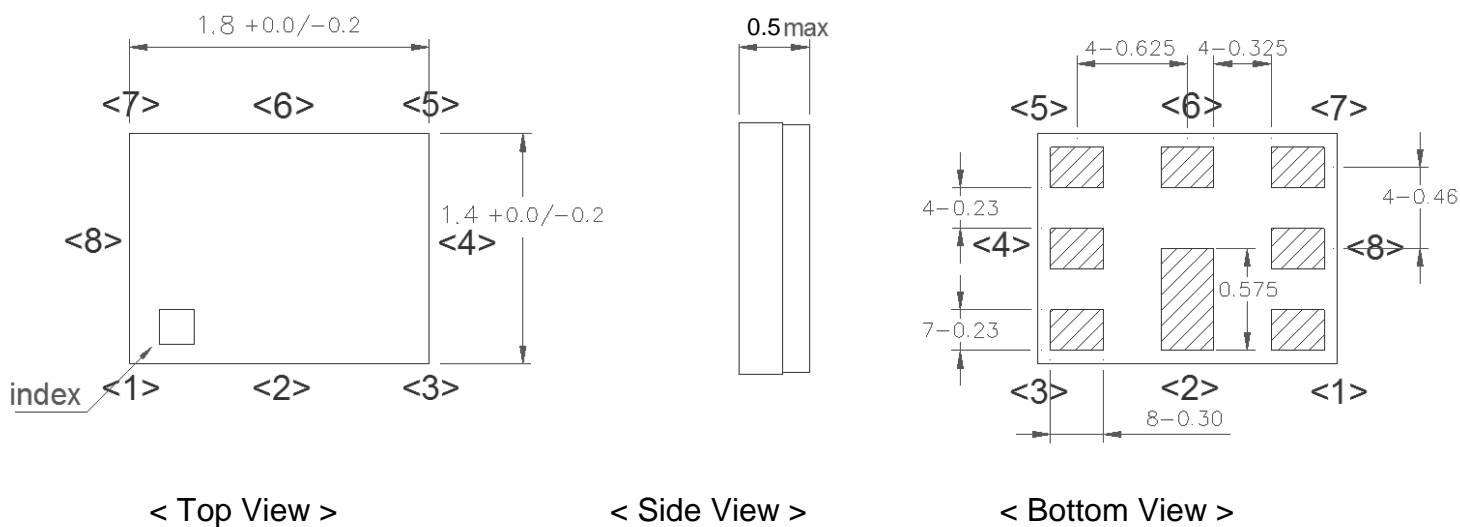
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Dimensions



Unit: mm

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

Figure 1. Dimensions and Pin assignment



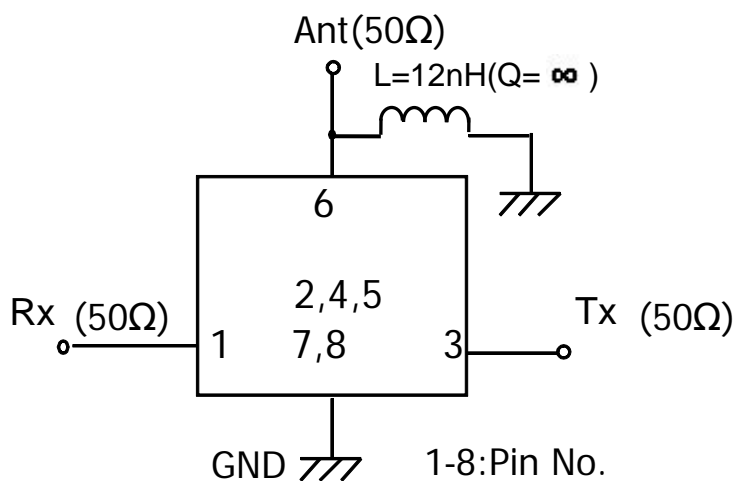
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Evaluation Circuit



Recommended foot print pattern

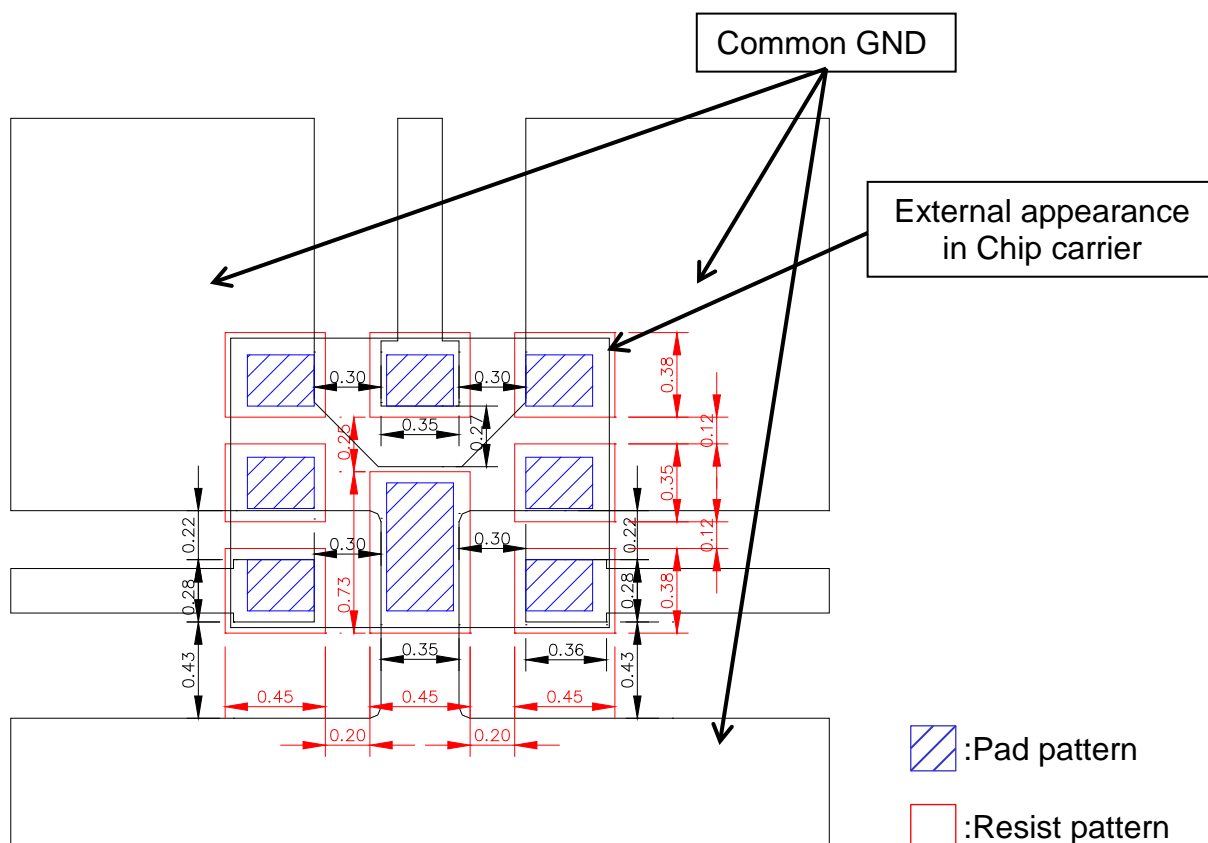


Figure 2. Recommended foot print pattern



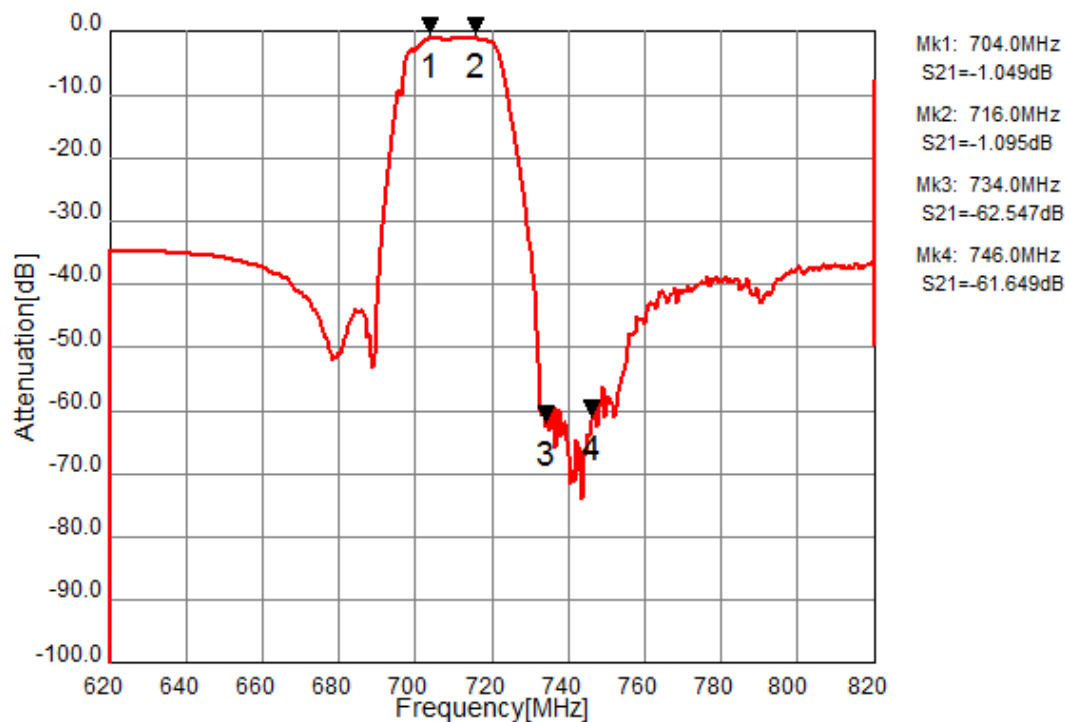
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Tx to Ant



Ant to Rx

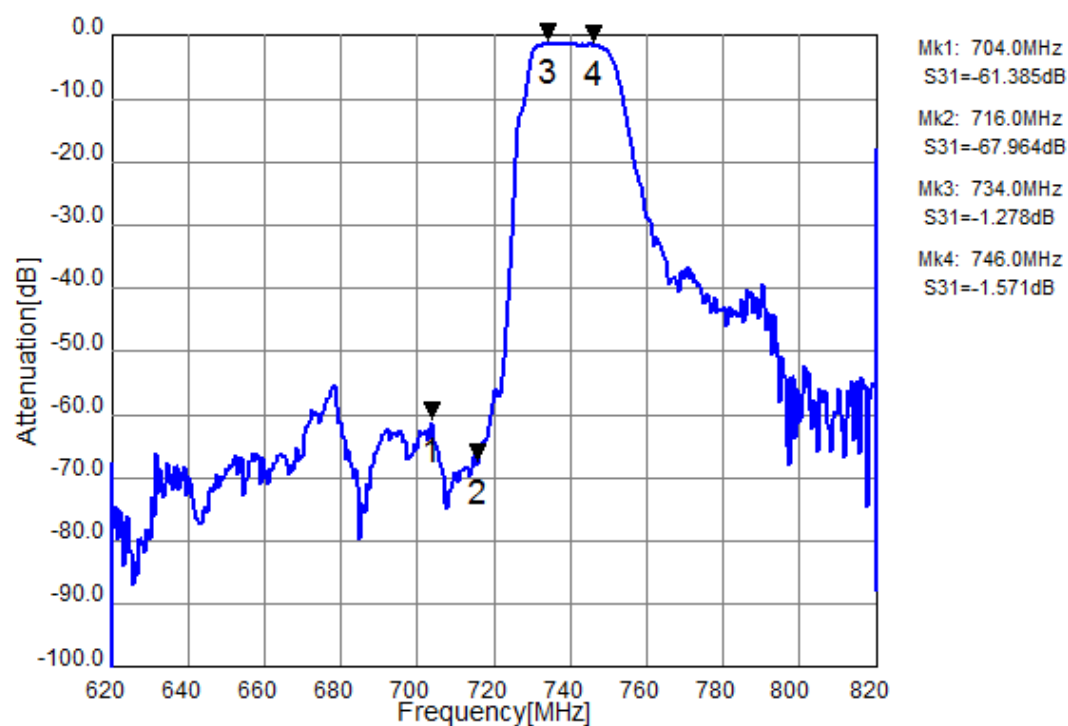


Figure 3-1. Electrical Characteristics

These data exclude loss that comes from the test board.



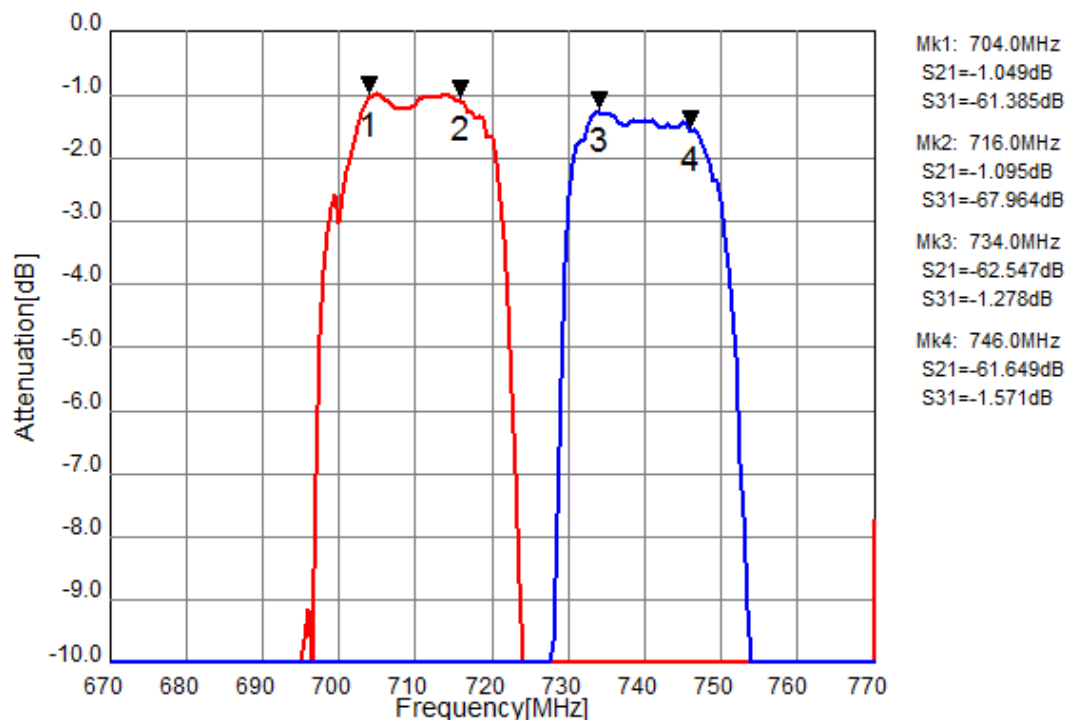
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

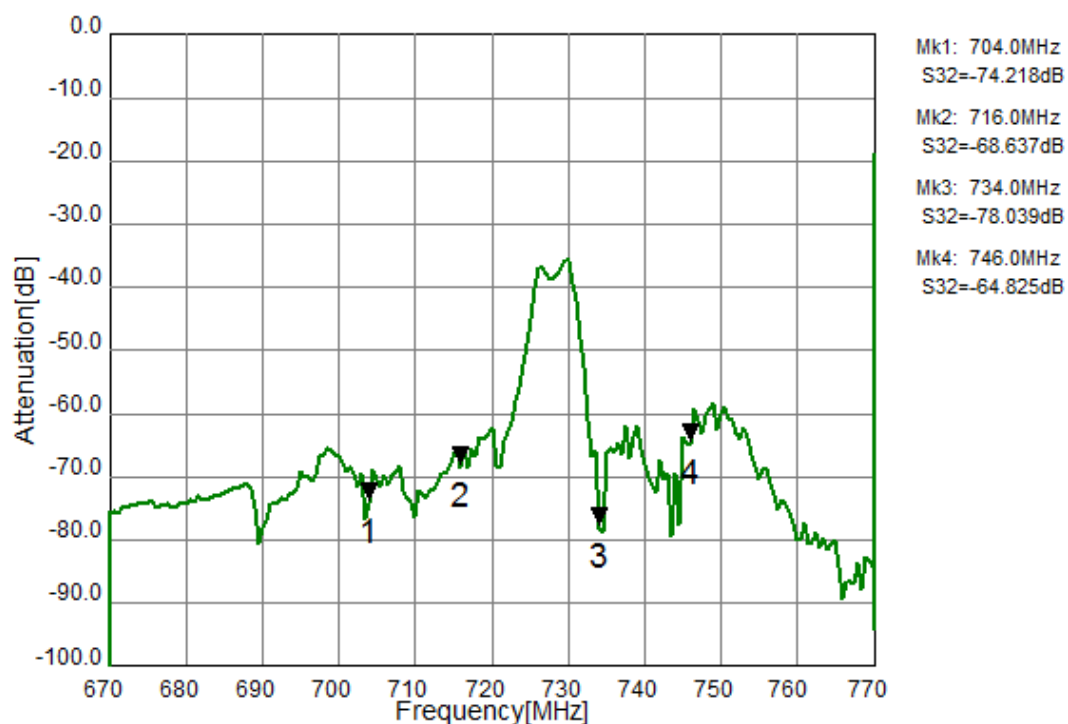


Figure 3-2. Electrical Characteristics

These data exclude loss that comes from the test board.



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Tx Port

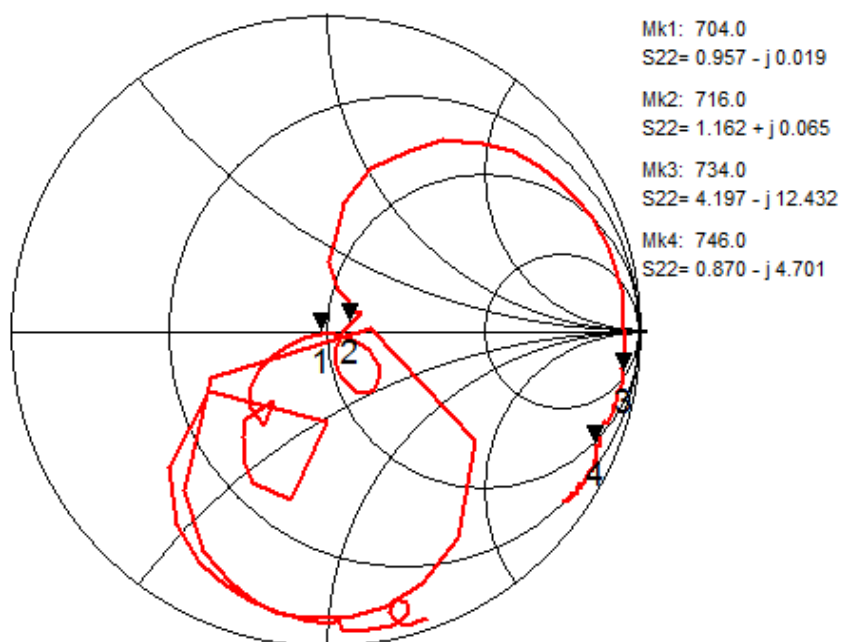
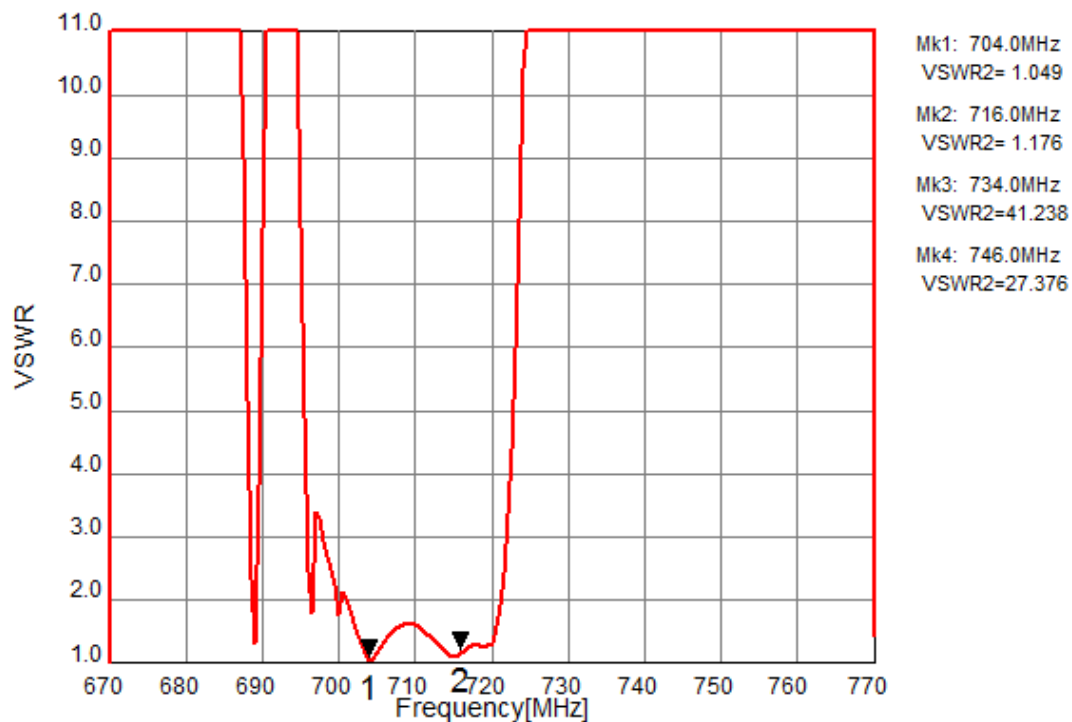


Figure 3-3. Electrical Characteristics



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Rx Port

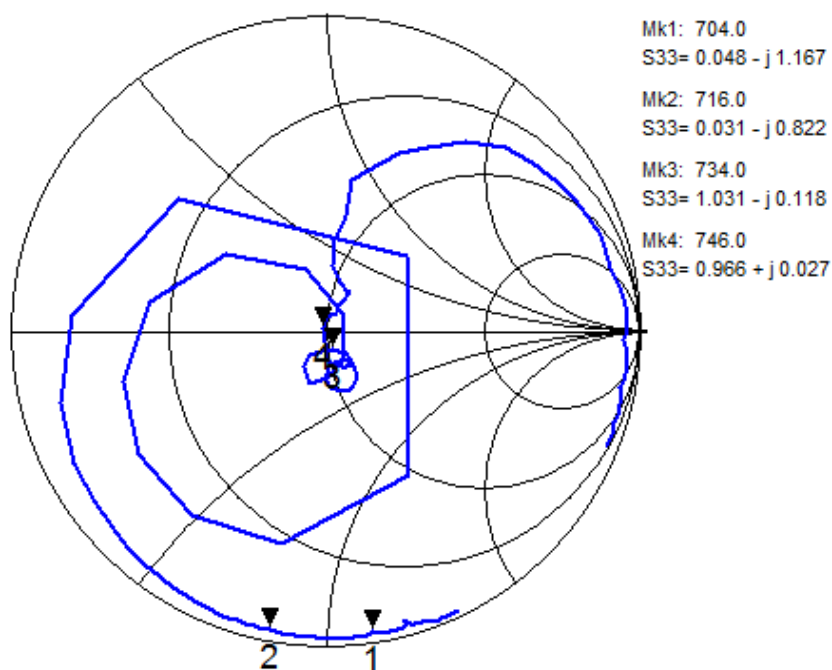
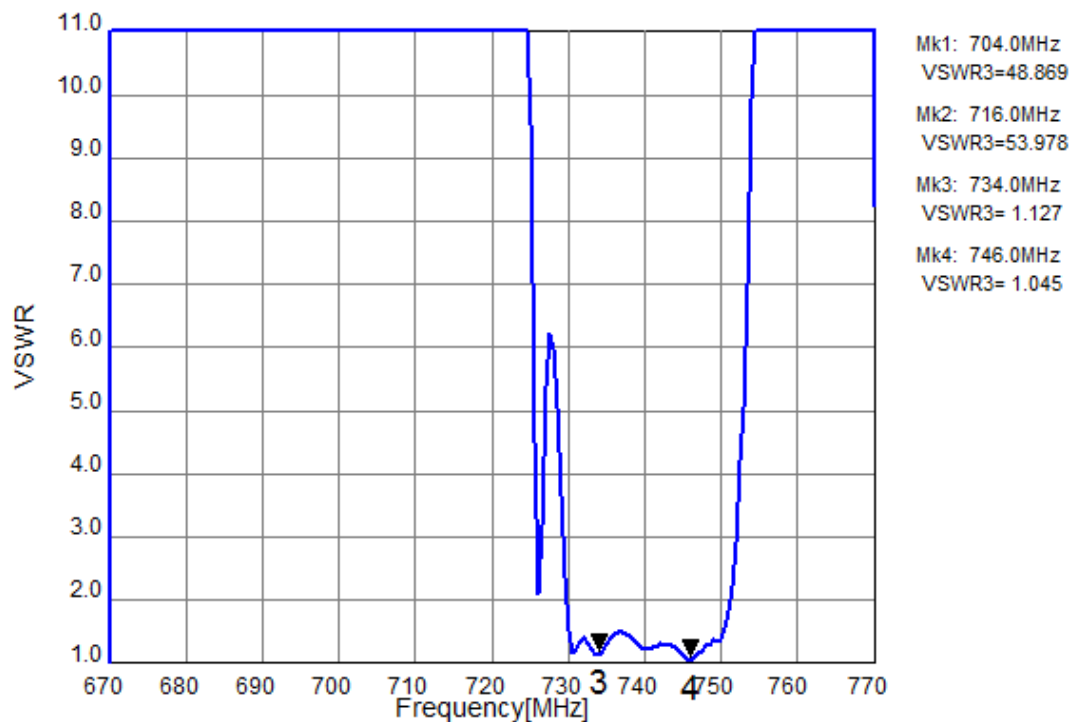


Figure 3-4. Electrical Characteristics



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Ant Port

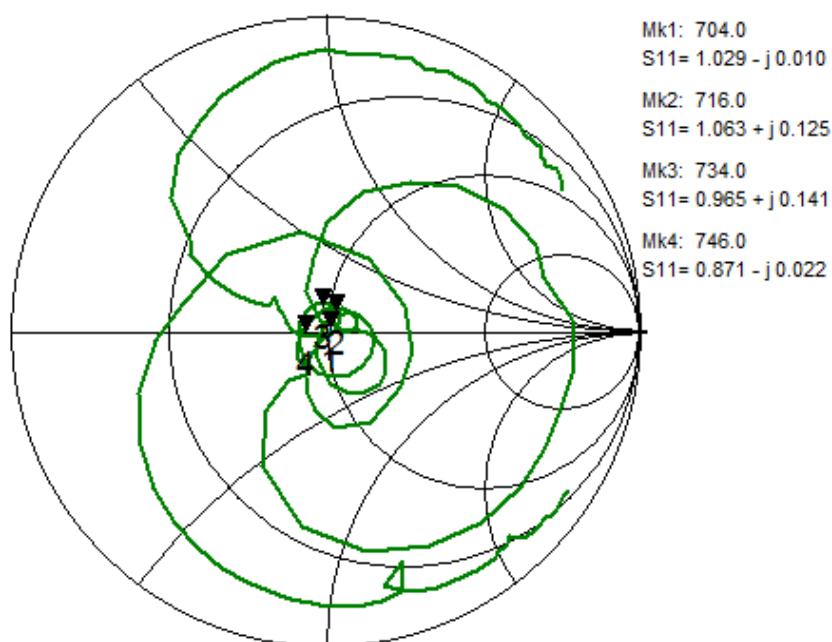
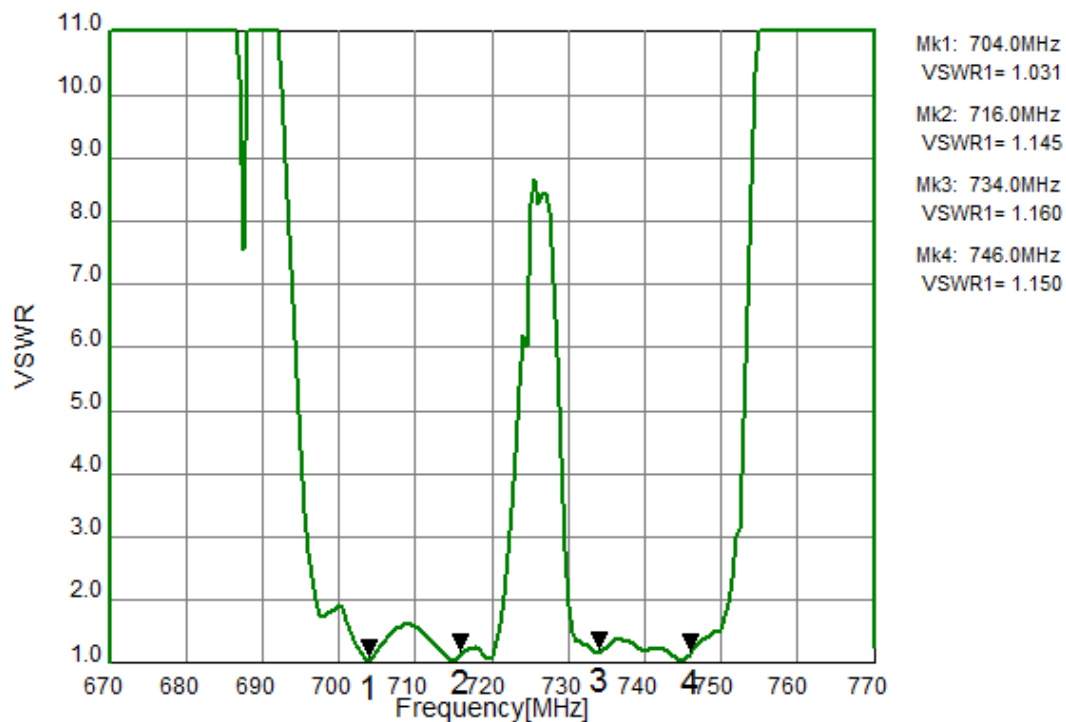


Figure 3-5. Electrical Characteristics



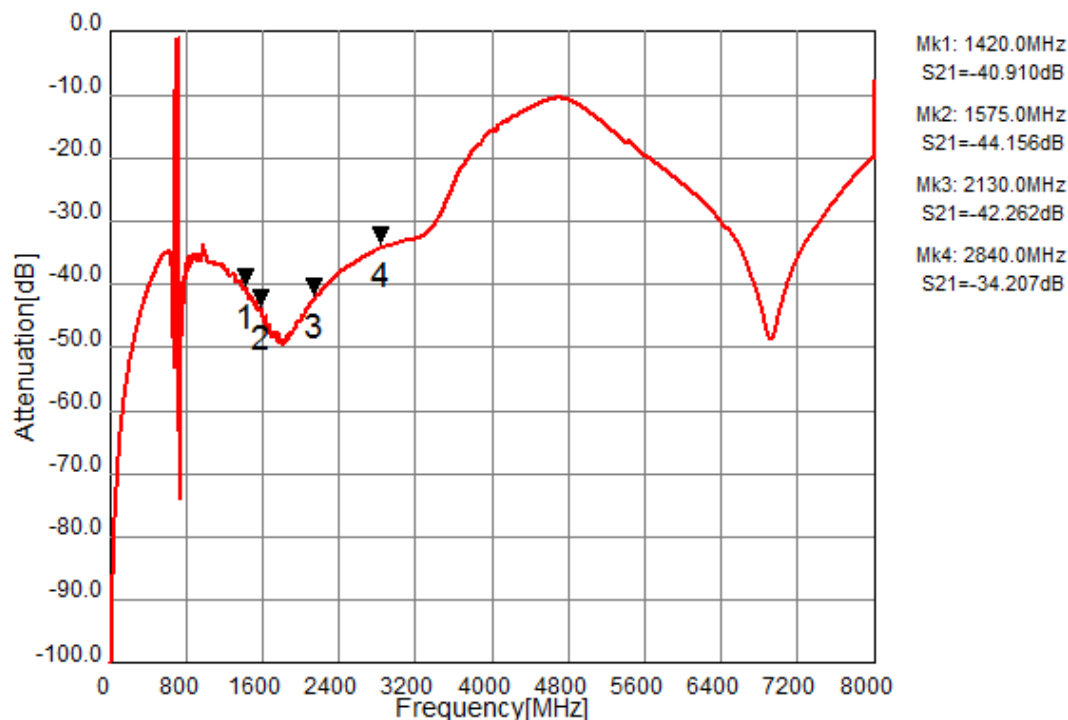
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Tx to Ant (Wide Span)



Ant to Rx (Wide Span)

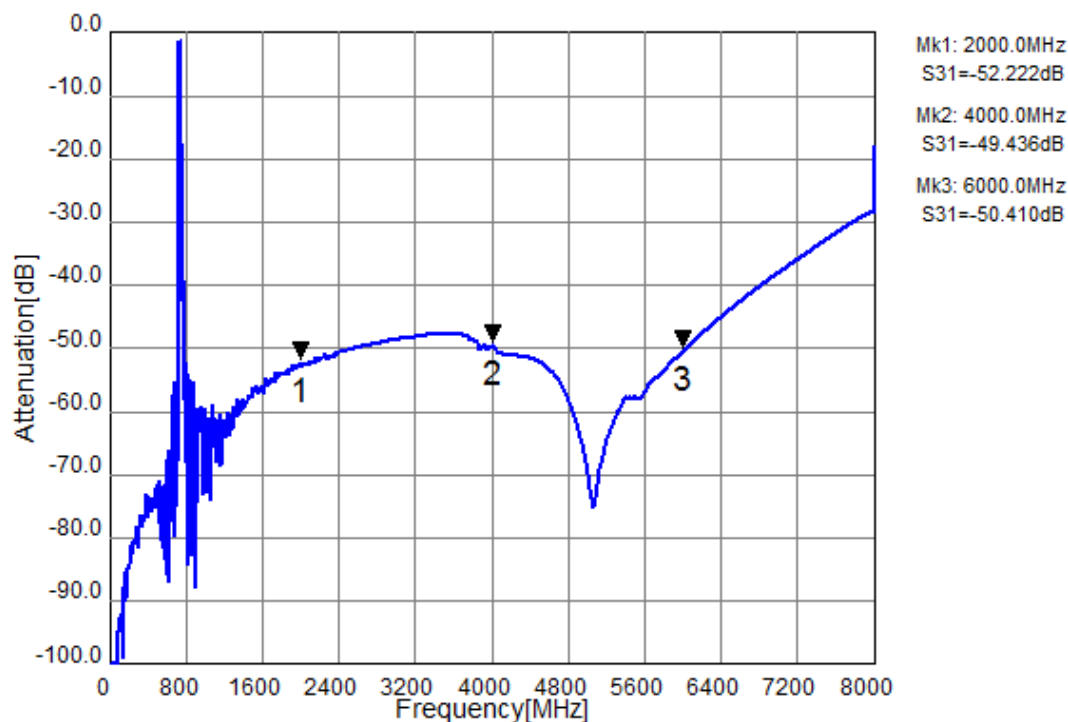


Figure 3-6. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
D5DA740M0K2L4-Z	Tape & Reel	3,000 pcs.	MP
D5DA740M0K2L4-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5DA740M0K2L4-Y	Tape & Reel	15,000 pcs.	MP
D5DA740M0K2L4-YA	Tape & Reel	less than 15,000 pcs.	MP
D5DA740M0K2L4-Q	Bulk	few pcs.	MP

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

*MP : Mass Production

Notice

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Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

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In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.