



\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 17 Duplexer	Date	Apr.13. 2016
Part Number	D5DA740MOK2L4	Version 1.1aaA	<b>Final</b>

**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**



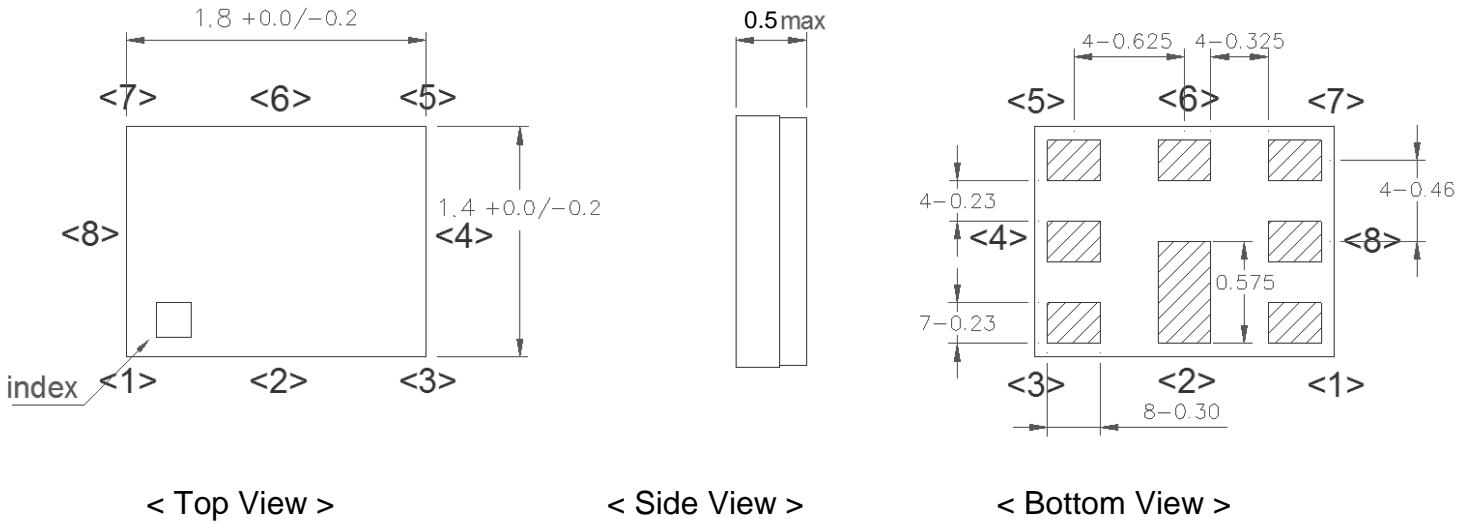
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### Dimensions



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**



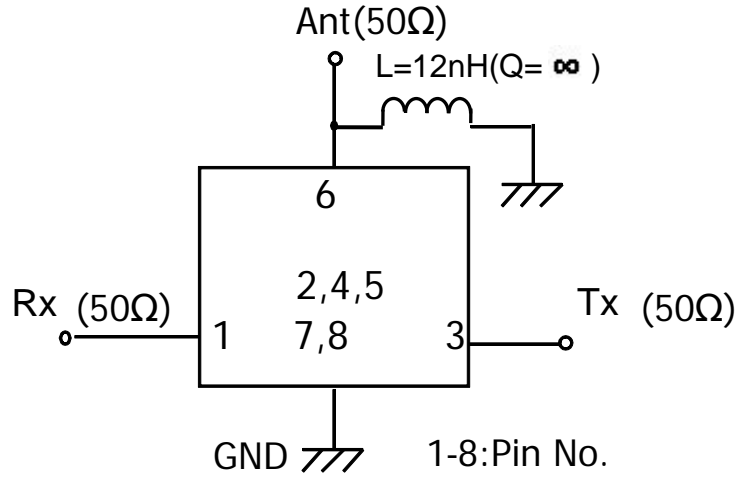
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### Evaluation Circuit



### Recommended foot print pattern

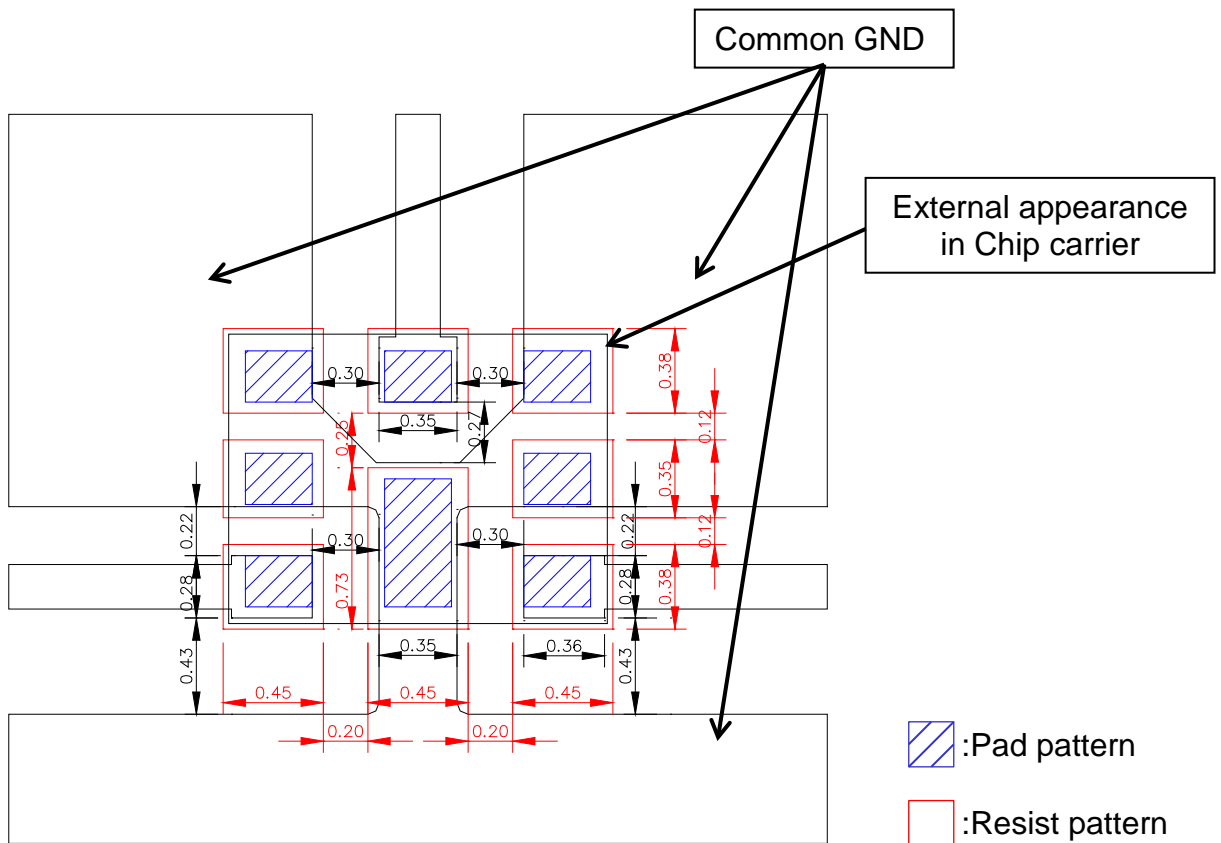


Figure 2. Recommended foot print pattern



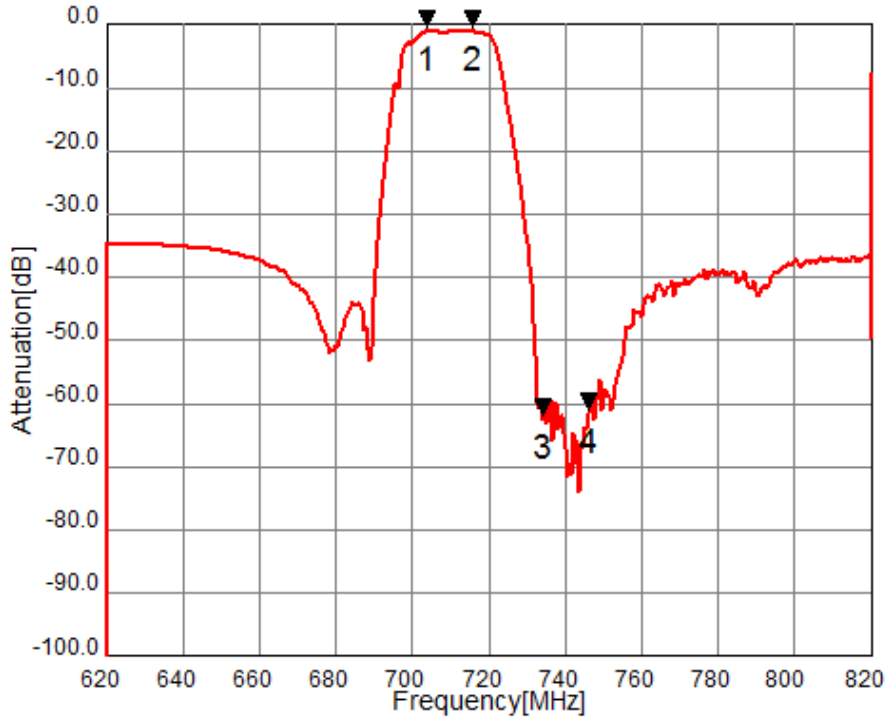
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MSL1

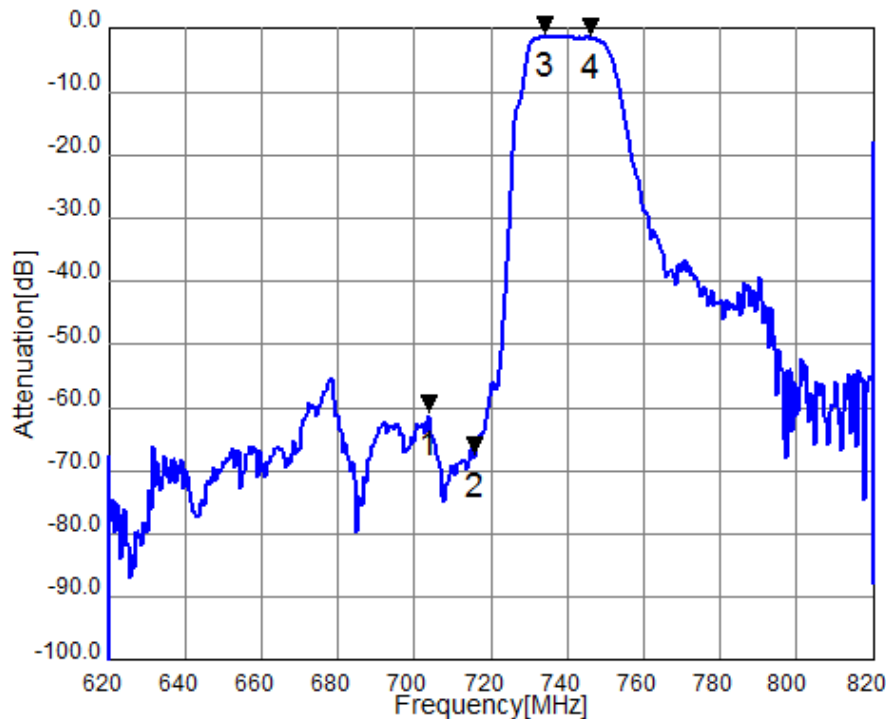
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System	Band 17 Duplexer	Date	Apr.13. 2016
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### Tx to Ant



- Mk1: 704.0MHz  
S21=-1.049dB
- Mk2: 716.0MHz  
S21=-1.095dB
- Mk3: 734.0MHz  
S21=-62.547dB
- Mk4: 746.0MHz  
S21=-61.649dB

### Ant to Rx



- Mk1: 704.0MHz  
S31=-61.385dB
- Mk2: 716.0MHz  
S31=-67.964dB
- Mk3: 734.0MHz  
S31=-1.278dB
- Mk4: 746.0MHz  
S31=-1.571dB

**Figure 3-1. Electrical Characteristics**

These data exclude loss that comes from the test board.



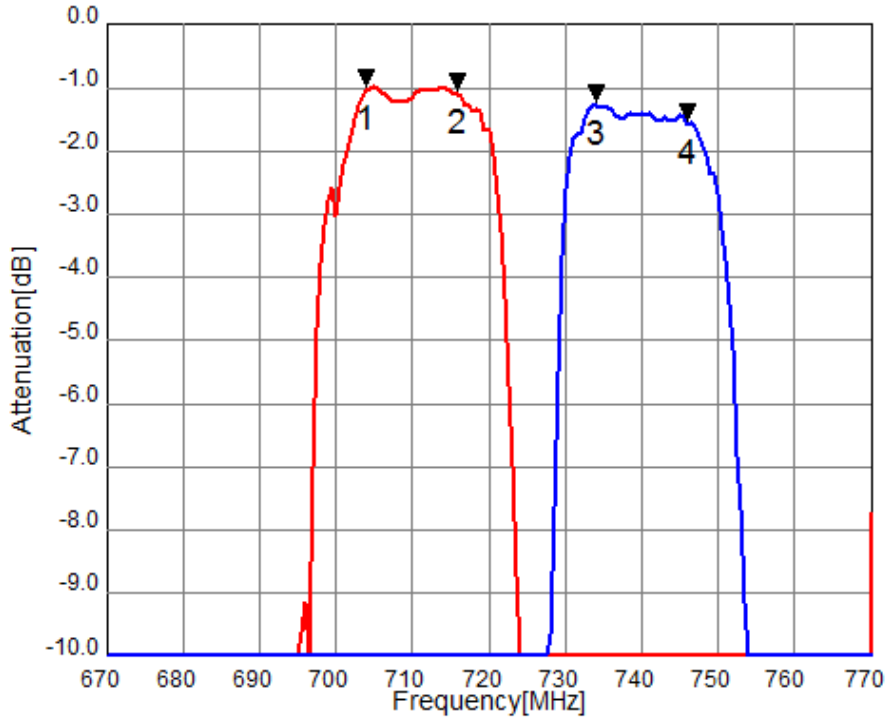
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## Tx to Ant, Ant to Rx



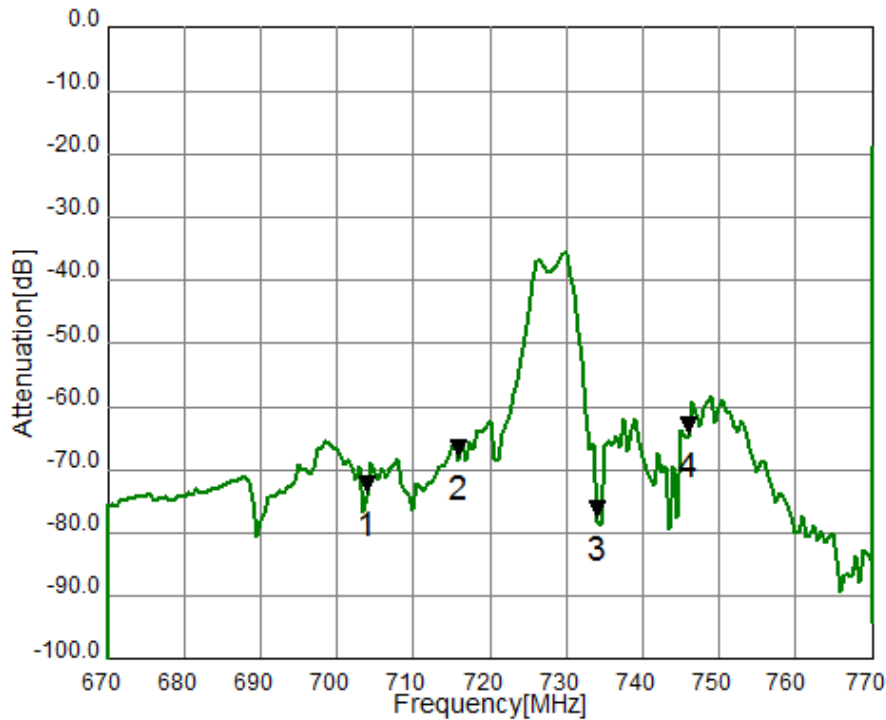
Mk1: 704.0MHz  
S21=-1.049dB  
S31=-61.385dB

Mk2: 716.0MHz  
S21=-1.095dB  
S31=-67.964dB

Mk3: 734.0MHz  
S21=-62.547dB  
S31=-1.278dB

Mk4: 746.0MHz  
S21=-61.649dB  
S31=-1.571dB

## Tx to Rx Isolation



Mk1: 704.0MHz  
S32=-74.218dB

Mk2: 716.0MHz  
S32=-68.637dB

Mk3: 734.0MHz  
S32=-78.039dB

Mk4: 746.0MHz  
S32=-64.825dB

**Figure 3-2. Electrical Characteristics**

These data exclude loss that comes from the test board.



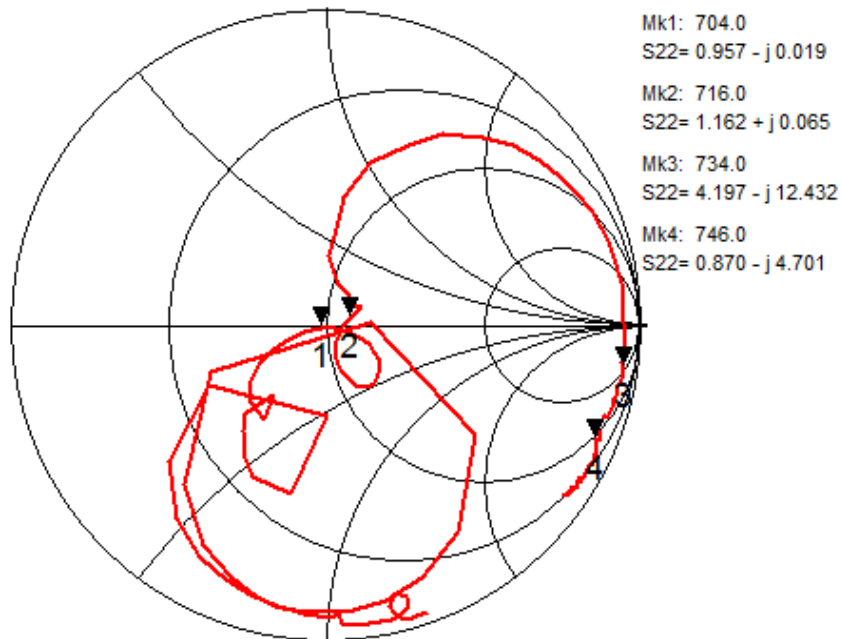
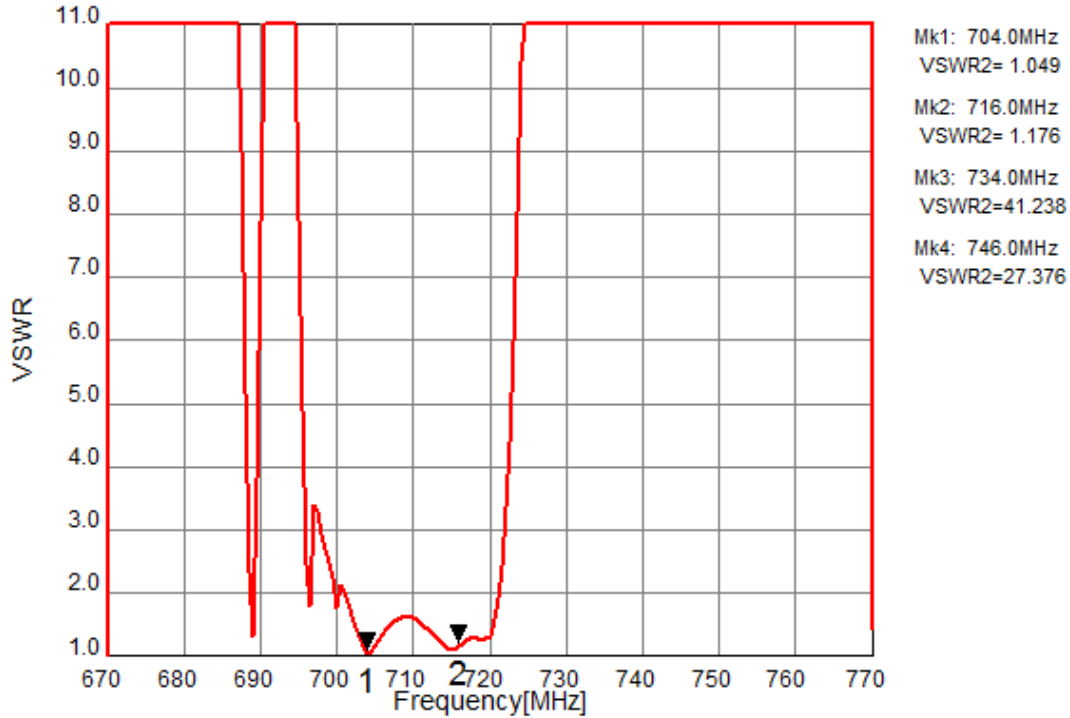
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## Tx Port



**Figure 3-3. Electrical Characteristics**



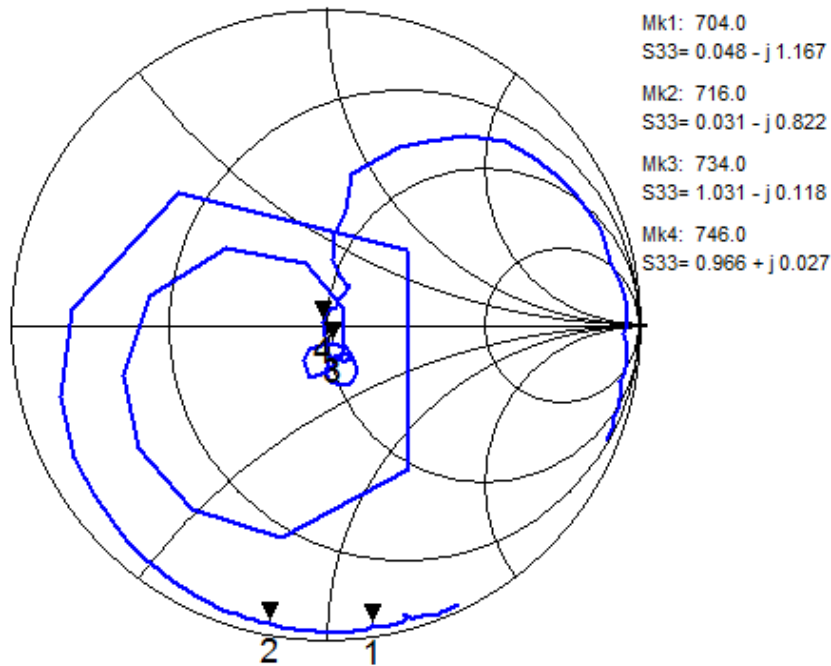
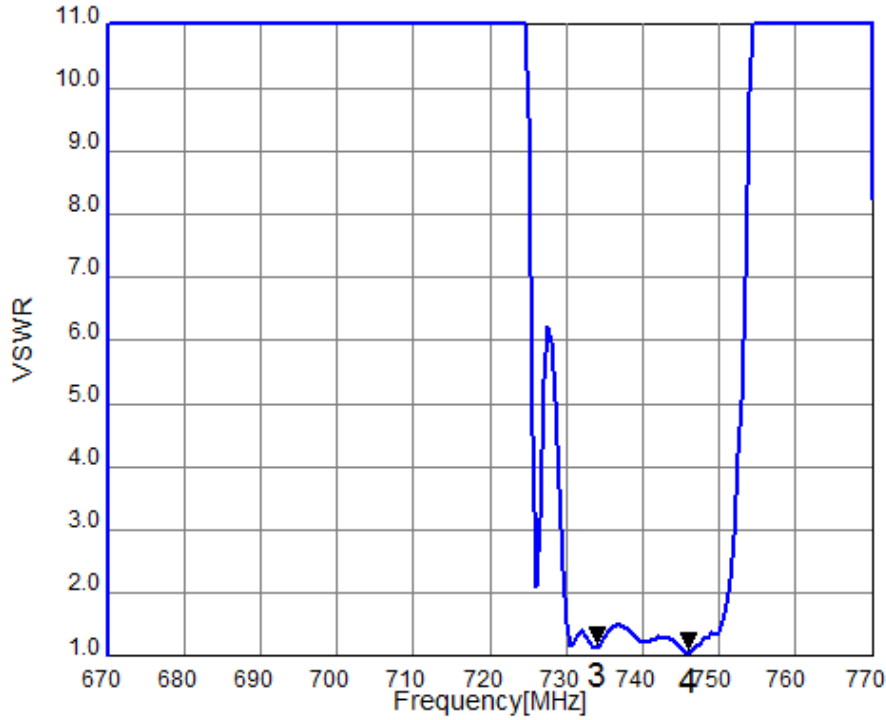
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## Rx Port



**Figure 3-4. Electrical Characteristics**



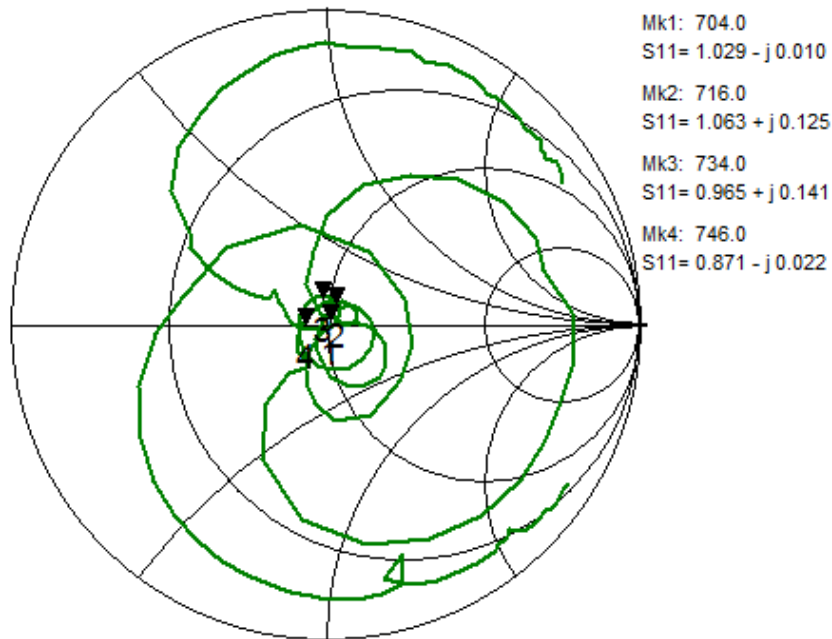
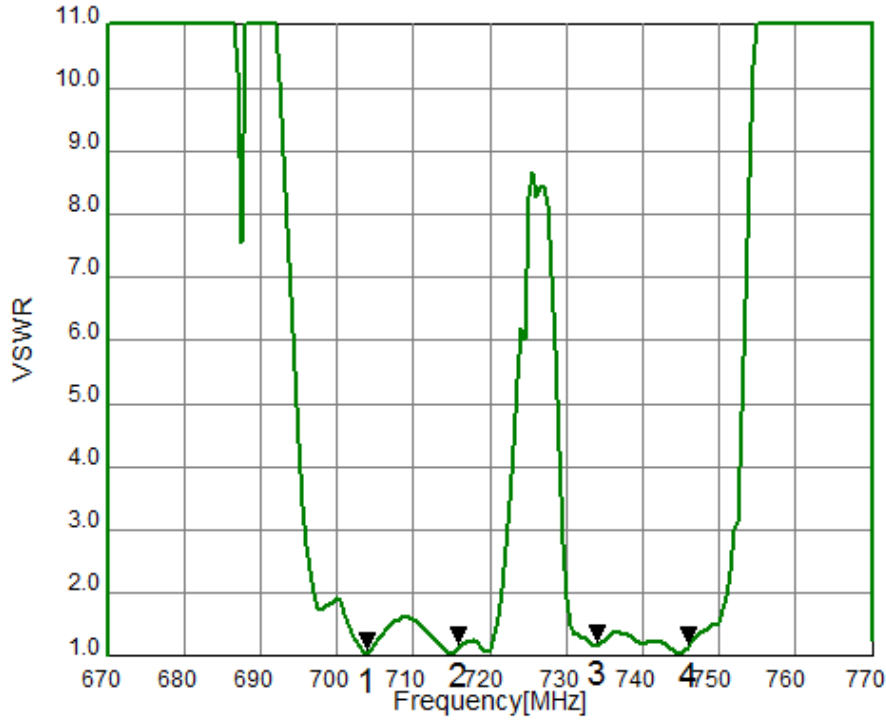
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## Ant Port



**Figure 3-5. Electrical Characteristics**





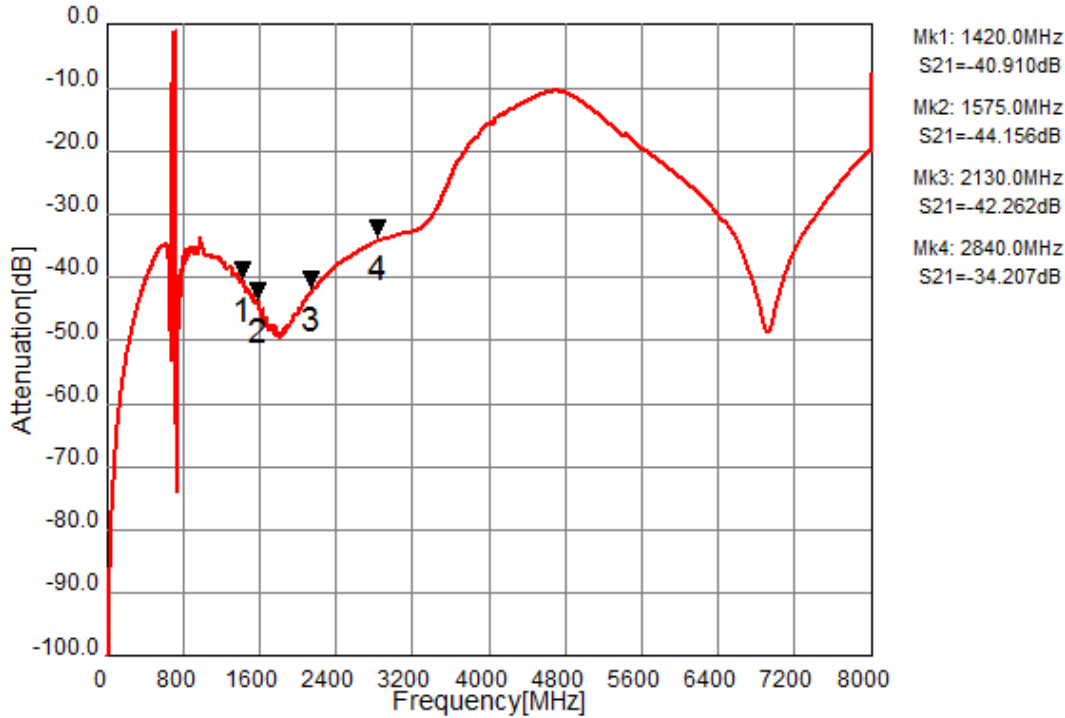
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### Tx to Ant (Wide Span)



### Ant to Rx (Wide Span)

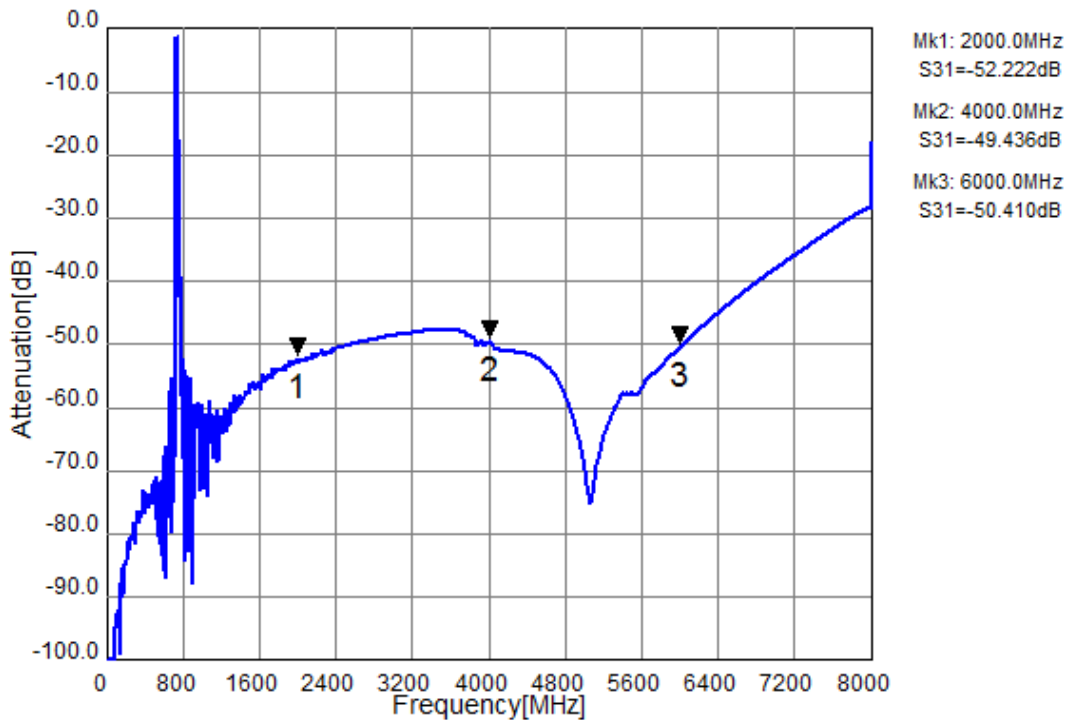


Figure 3-6. Electrical Characteristics



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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

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