



\* Pb Free Part



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band 11 Duplexer	Date	Mar. 07, 2018
Part Number	D6DA1G485K2W1	Version 2.2cbC	Final

**Table 1-1. Electrical Specification**

Item			Condition (MHz)	Specification			Unit	Remarks
				Min.	Typ.	Max.		
Tx to Ant	Insertion loss (*1)		1427.9 - 1447.9	-	1.2	1.8	dB	
	Ripple		1427.9 - 1447.9	-	0.3	1.0	dB	
	VSWR	Tx	1427.9 - 1447.9	-	1.4	2.0	-	
		Ant	1427.9 - 1447.9	-	1.4	2.0	-	
	Input Power		1427.9 - 1447.9	+29 dBm, CW, +50 °C, 10000h			-	
				+29 dBm, LTE 5 MHz 1RB, +50 °C, 10000h			-	
				+30 dBm, CW, +50 °C, 5000h			-	
				+30 dBm, LTE 5 MHz 1RB, +50 °C, 5000h			-	
	Absolute attenuation		1475.9 - 1495.9	46	59	-	dB	
			1559 - 1606	38	48	-	dB	
			2400 - 2500	38	43	-	dB	
			2855.8 - 2895.9	33	38	-	dB	
			4283.7 - 4343.7	20	30	-	dB	
Ant to Rx	Insertion loss (*1)		1475.9 - 1495.9	-	1.3	1.8	dB	
	Ripple		1475.9 - 1495.9	-	0.3	1.0	dB	
	VSWR	Ant	1475.9 - 1495.9	-	1.4	2.0	-	
		Rx	1475.9 - 1495.9	-	1.4	2.0	-	
	Absolute attenuation		1427.9 - 1447.9	52	57	-	dB	
			2400 - 2500	38	44	-	dB	
			2951.8 - 2991.8	40	46	-	dB	
			4427.7 - 4487.7	45	53	-	dB	
Tx to Rx	Isolation		1427.9 - 1447.9	55	58	-	dB	
			1475.9 - 1495.9	55	60	-	dB	



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MSL1

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**Table 1-2. Electrical Specification**

Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Terminating Impedance	Tx port	50			Ω	
	Rx port	50			Ω	
	Ant port	50//8.5nH			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.



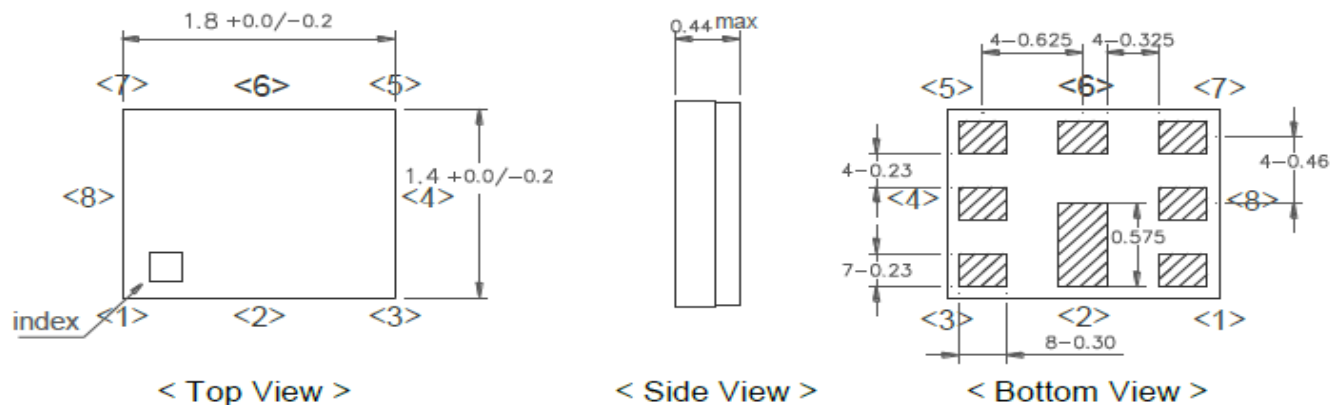
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MSL1

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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



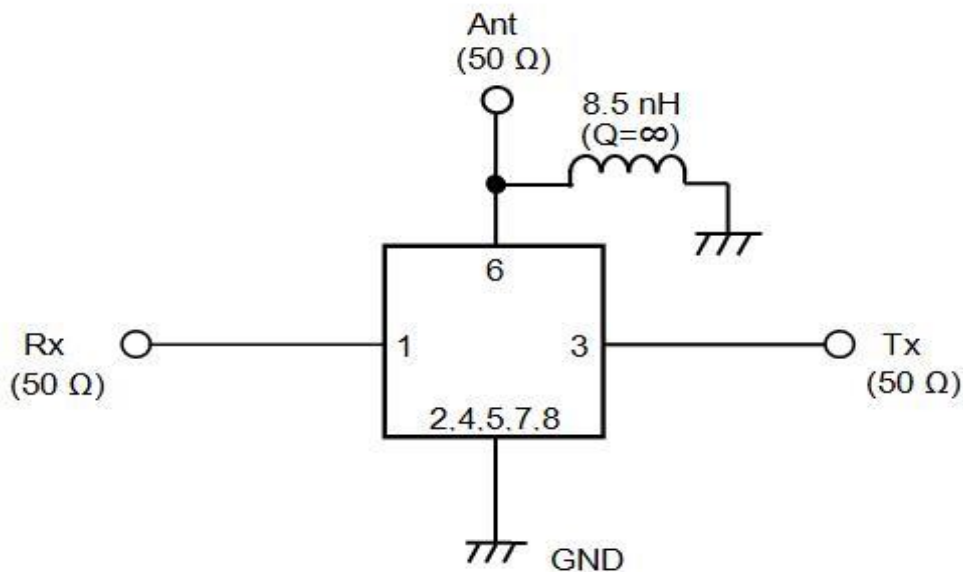
\* Pb Free Part



MSL1

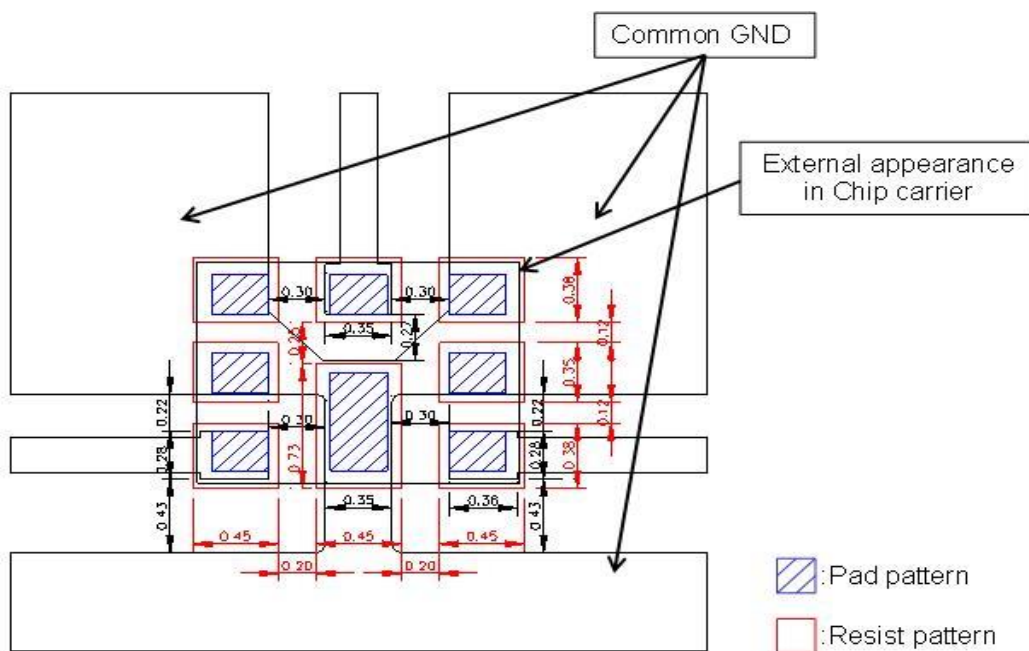
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
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## Evaluation Circuit



**Figure 2. Evaluation Circuit**

## Recommended Foot Print Pattern



**Figure 3. Recommended Foot Print Pattern**



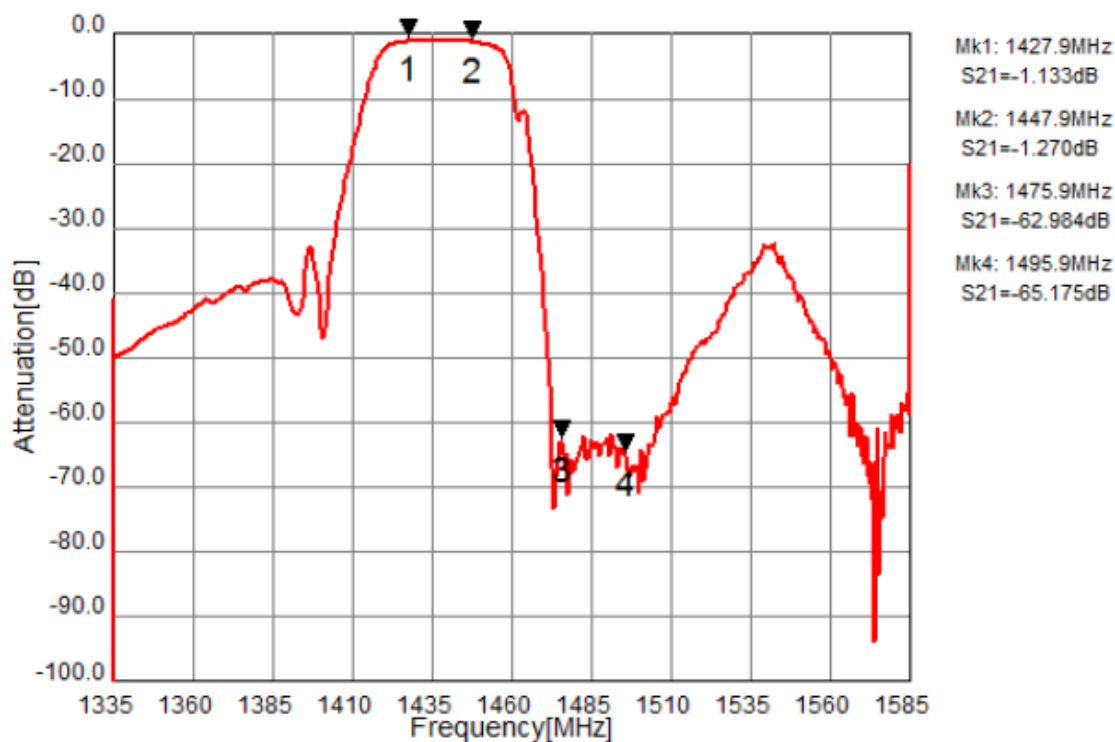
\* Pb Free Part



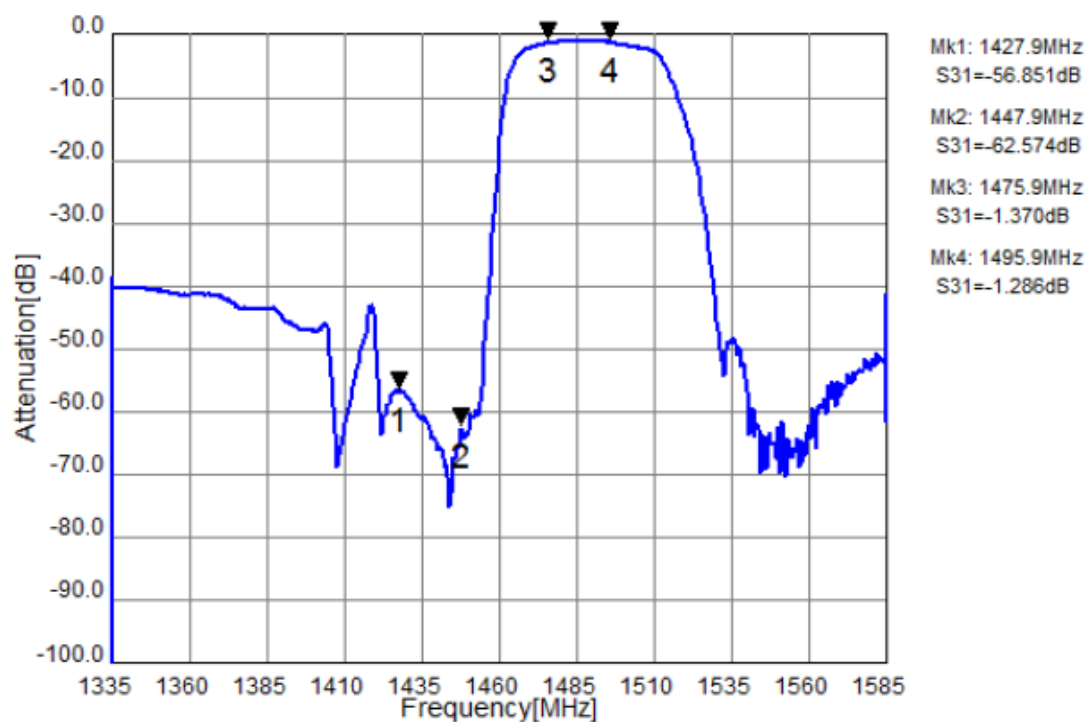
MSL1

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Part Number	D6DA1G485K2W1	Version 2.2cbC	Final

### Tx to Ant



### Ant to Rx



**Figure 4-1. Electrical Characteristics**

These data exclude loss that comes from the test board.

**TAIYO YUDEN**



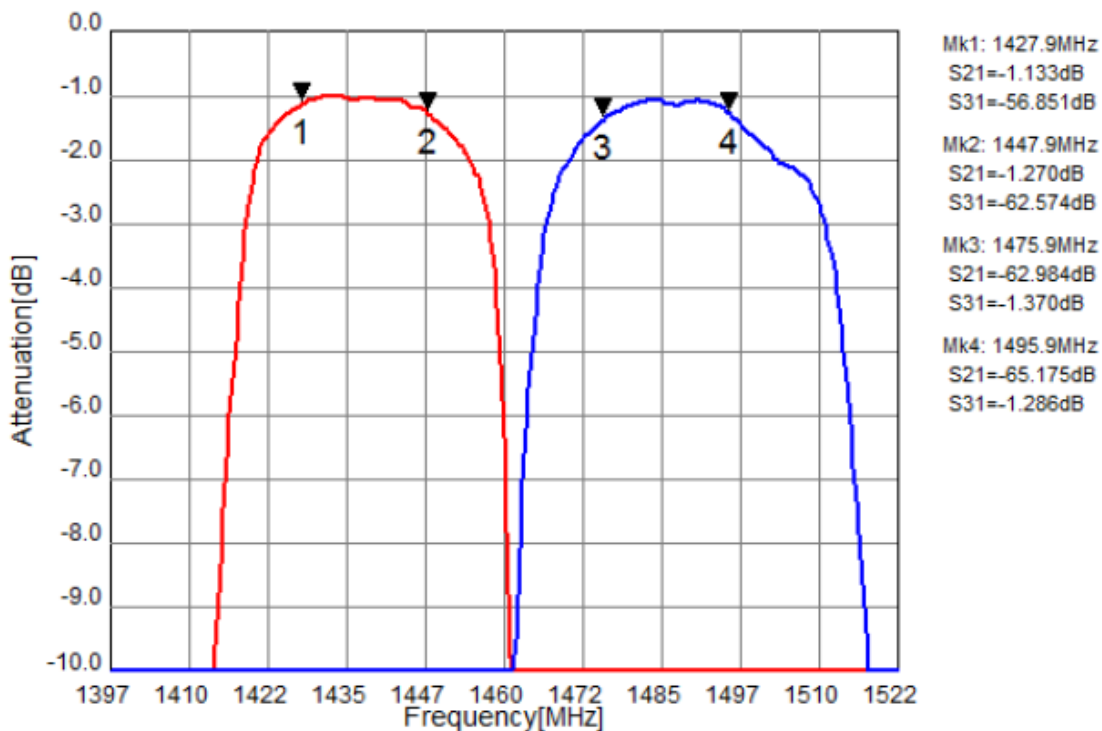
\* Pb Free Part



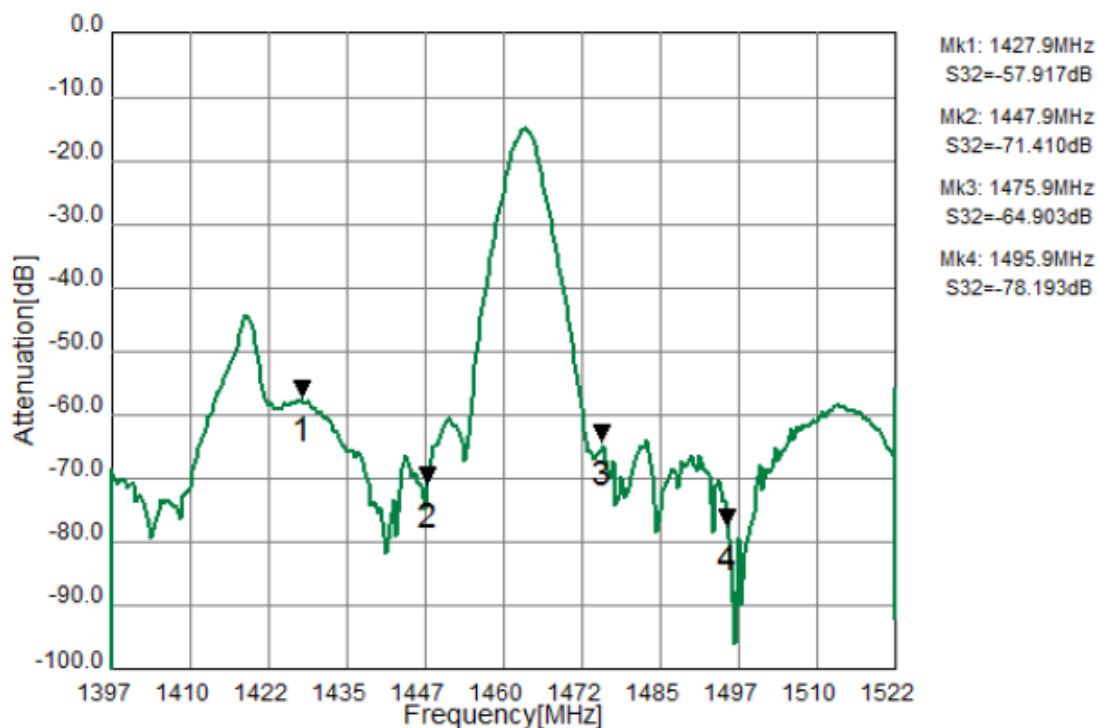
MSL1

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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.

**TAIYO YUDEN**



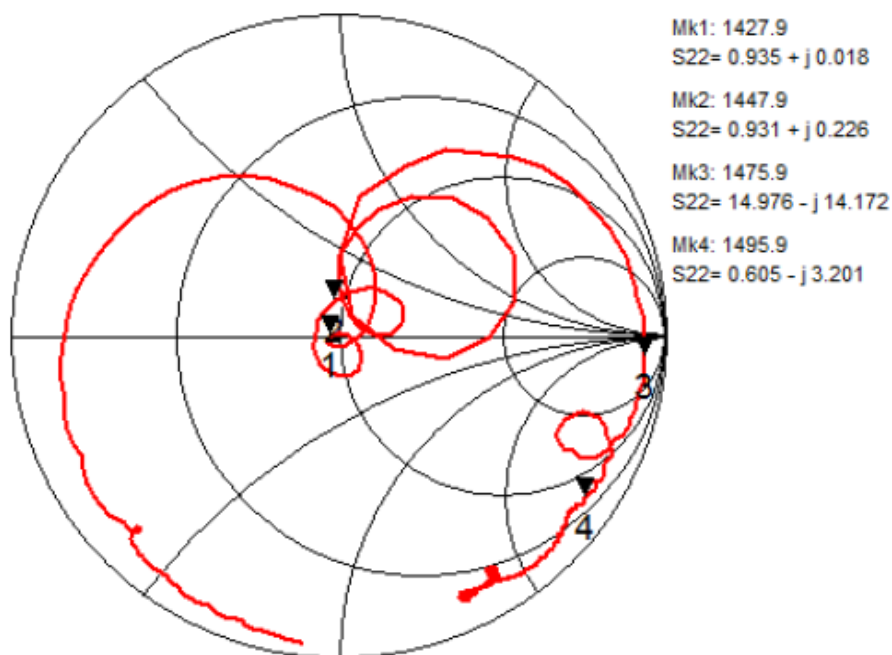
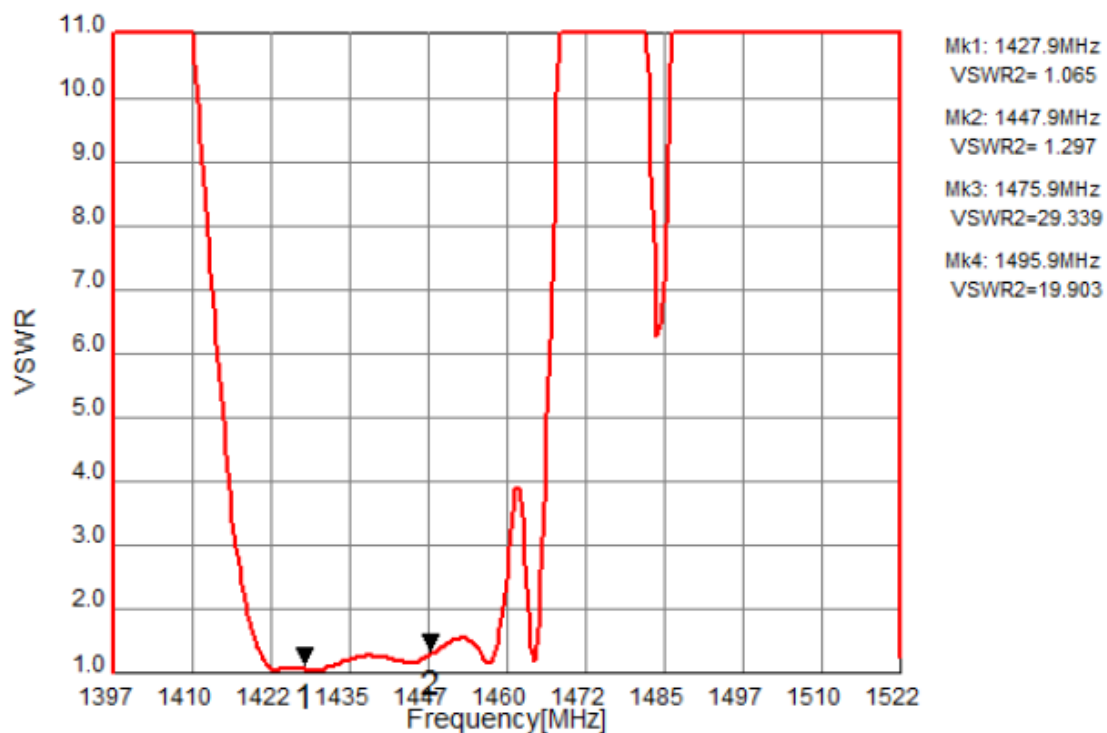
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MSL1

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## Tx Port



**Figure 4-3. Electrical Characteristics**



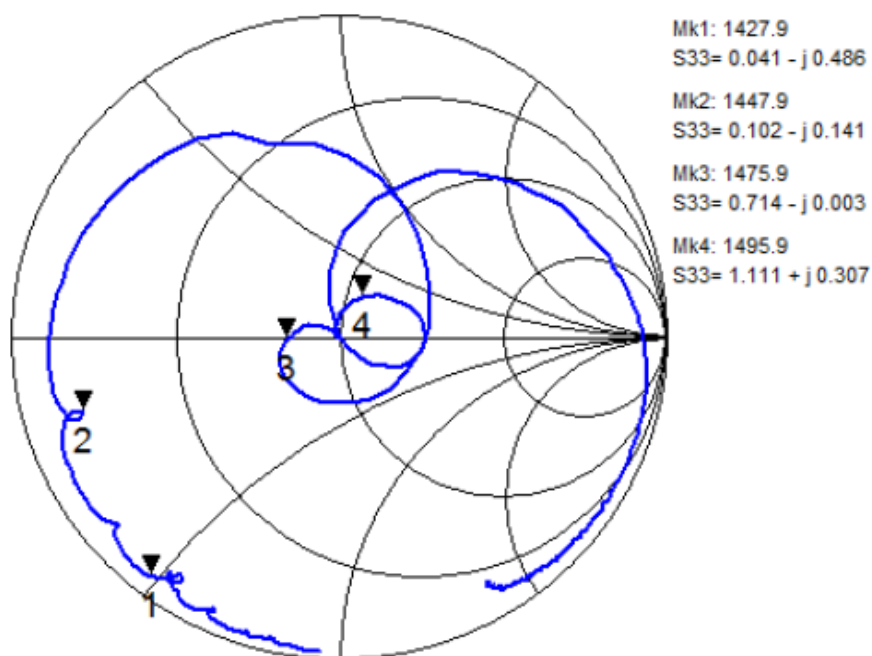
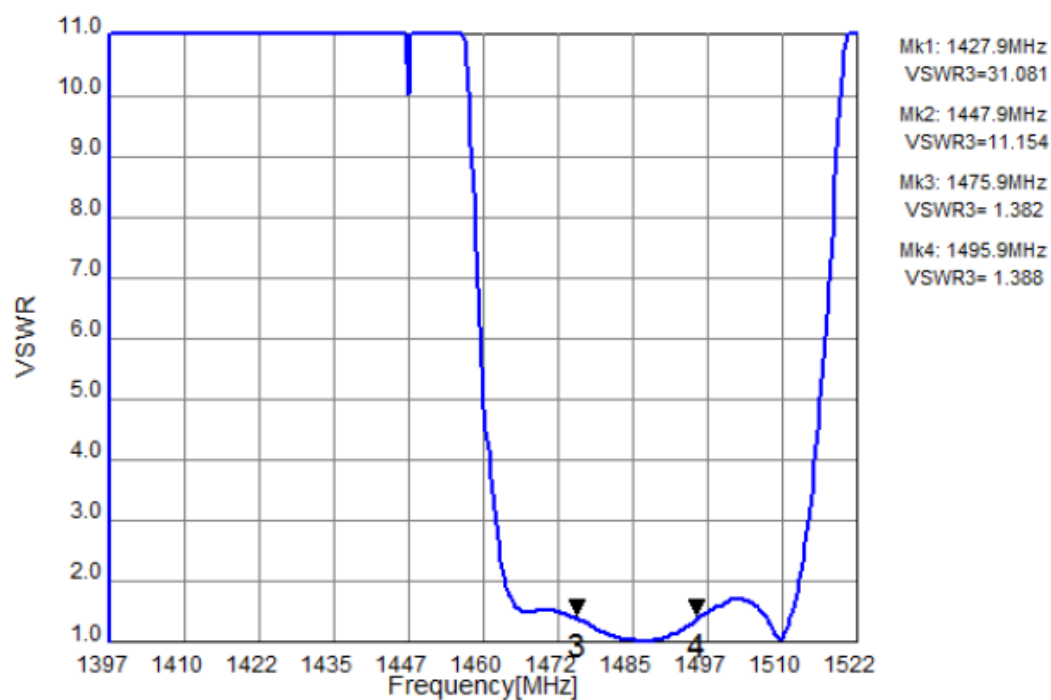
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MSL1

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Part Number	D6DA1G485K2W1	Version 2.2cbC	Final

## Rx Port



**Figure 4-4. Electrical Characteristics**





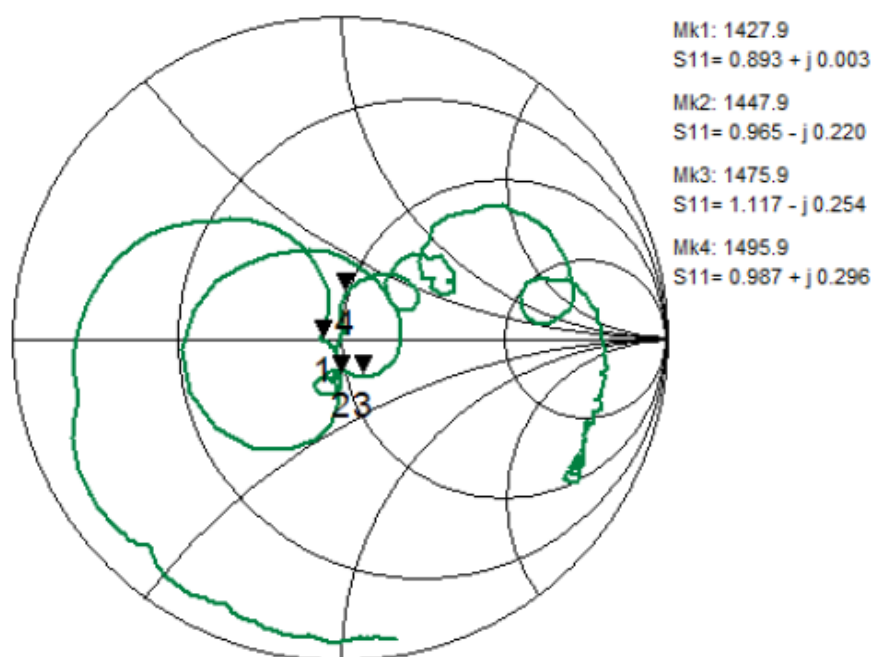
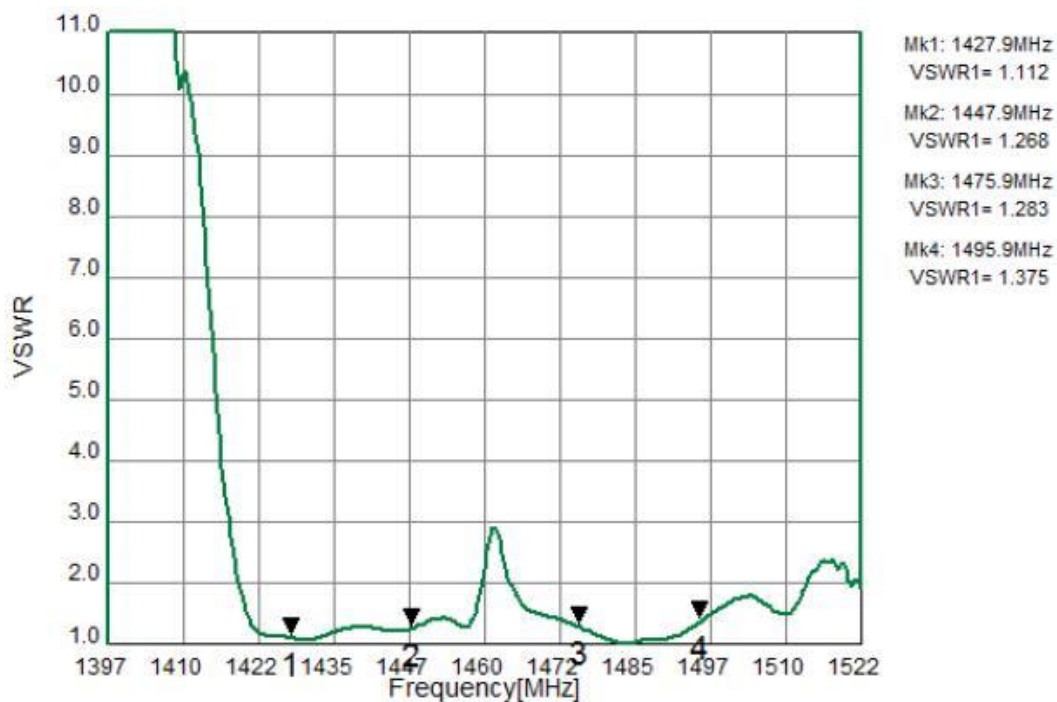
\* Pb Free Part



MSL1

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## Ant Port



**Figure 4-5. Electrical Characteristics**



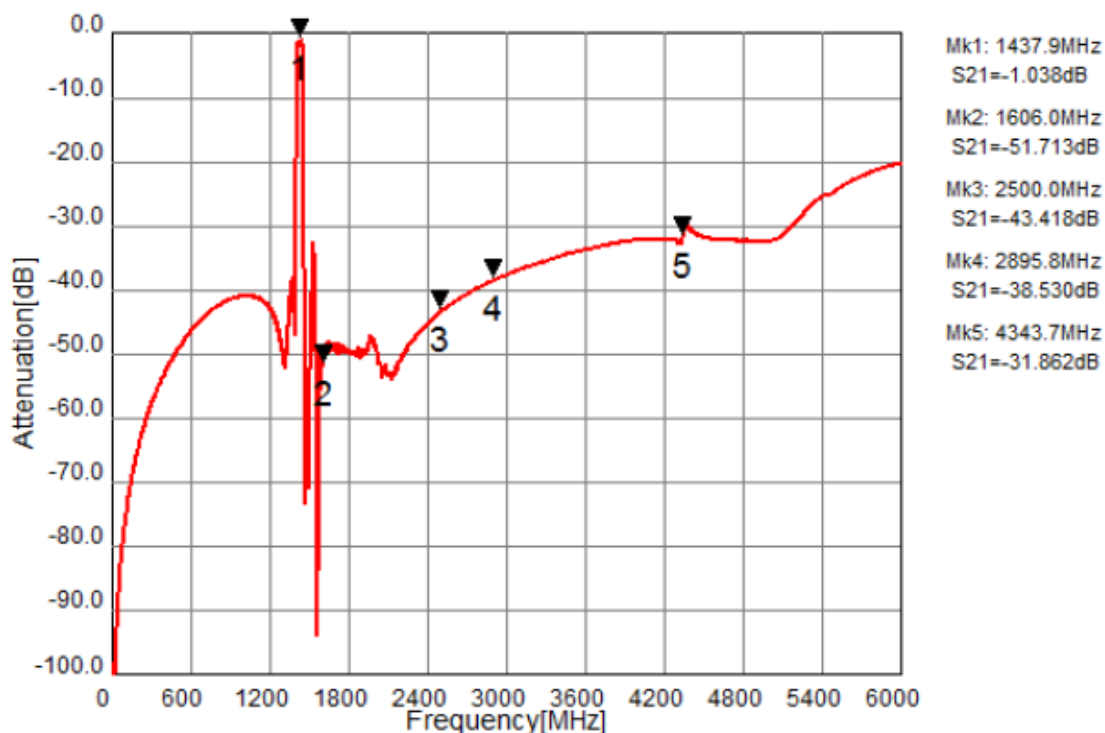
\* Pb Free Part



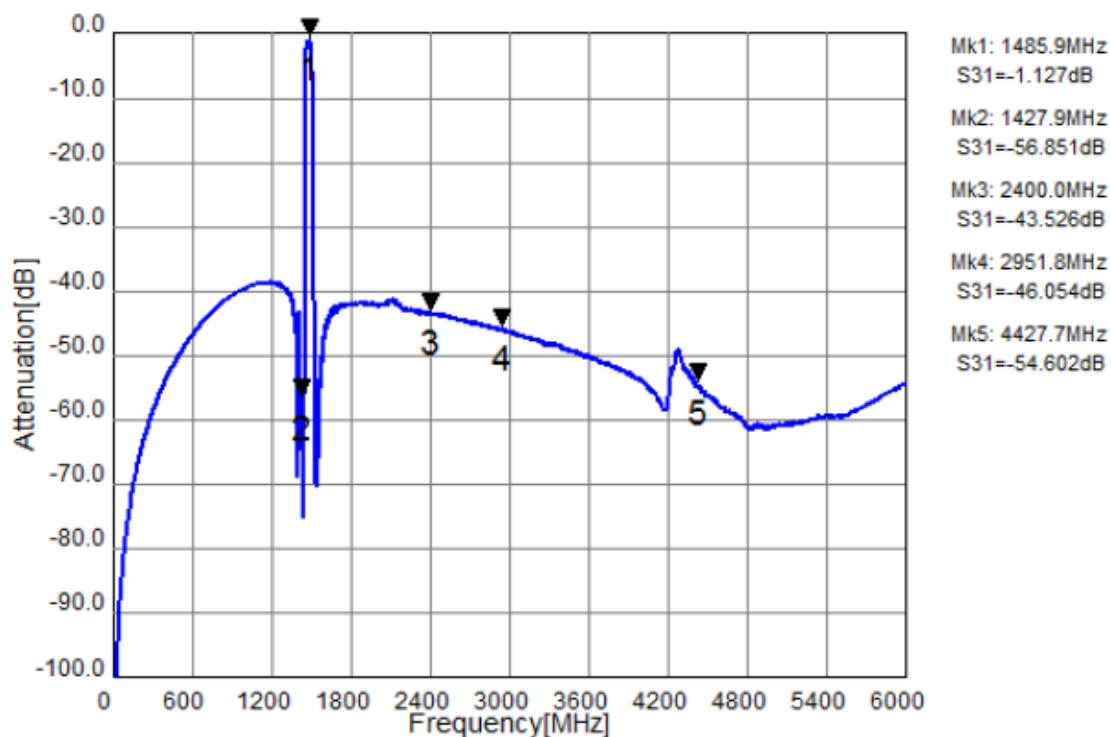
MSL1

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Part Number	D6DA1G485K2W1	Version 2.2cbC	Final

### Tx to Ant(Wide span)



### Ant to Rx(Wide span)



**Figure 4-6. Electrical Characteristics**



\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
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Part Number	D6DA1G485K2W1	Version 2.2cbC	Final

## Ordering Code

Ordering Code	Packing	Reel size	Status
D6DA1G485K2W1-Z	Tape & Reel	3,000 pcs.	MP
D6DA1G485K2W1-ZA	Tape & Reel	less than 3,000 pcs.	MP
D6DA1G485K2W1-Y	Tape & Reel	15,000 pcs.	MP
D6DA1G485K2W1-YA	Tape & Reel	less than 15,000 pcs.	MP
D6DA1G485K2W1-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 conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
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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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