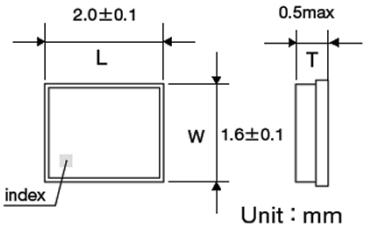
Spec Sheet

FBAR/SAW Devices (SAW Duplexers)

D5PF773M0M3Y6



Features

- Item Summary

  SAW, Duplexer, 2.0x1.6x0.5mm

  Band28

- Lifecycle Stage

  Mass Production

- Standard packaging quantity (minimum)

  Taping Embossed 3000 , 15000pcs

Products characteristics table

System	LTE
Type	SAW
Function	Duplexer
band	Band28
Insertion Loss (typ) (Tx-ANT/ANT-Rx)	1.8/2.3 dB
Isolation (typ)	60/53 dB
Operating Temp. Range	-20 to +85 ℃
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

External Dimensions

Dimension L	2.0 ±0.10 mm
Dimension W	1.6 ±0.10 mm
Dimension T	Max 0.5 mm

2017.05.01

Pb-free RoHS MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 28 Block A Duplexer	Date	Apr. 4, 2014
Part Number	D5PF773M0M3Y6	Version 2.1bbB	Final

Table 1. Electrical Specification

Item			Condition (MHz)	Specification			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss		703~733	-	1.8	3.1	dB (*1)	
	Ripple		703~733	-	0.8	2.5	dB	
	VSWR	ANT	703~733	-	2.0	2.3	-	
		Tx		-	2.0	2.3	-	
	Input power		703~733	CW tone, +29dBm, 5000H			-	Ta=50°C
	Absolute attenuation		10~694	33	38	-	dB	
			694~698	2.5	16	-	dB	
			758~788	47	52	-	dB	
			788~803	30	43	-	dB	
			1406~1466	35	46	-	dB	
			1565~1606	45	52	-	dB	
			2109~2199	45	58	-	dB	
			2400~2500	45	56	-	dB	
ANT to Rx	Insertion loss		758~788	-	2.3	2.8	dB (*1)	
	Ripple		758~788	-	0.7	1.6	dB	
	VSWR	ANT	758~788	-	1.8	2.2	-	
		Rx		-	2.1	2.4	-	
	Absolute attenuation		703~733	50	60	-	dB	
			2400~2500	45	51	-	dB	
Tx to Rx	Isolation		703~733	56	60	-	dB	
			758~788	50	53	-	dB	
Terminating Impedance			Tx port	50 + 12nH			Ohm	Single-ended
			Rx port	50			Ohm	Single-ended
			Ant port	50 // 10nH			Ohm	Single-ended
Operating Temperature				-20 to +85			°C	
Device size (LxWxH)				2.0(typ) x 1.6(typ) x 0.5(max)			mm	

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

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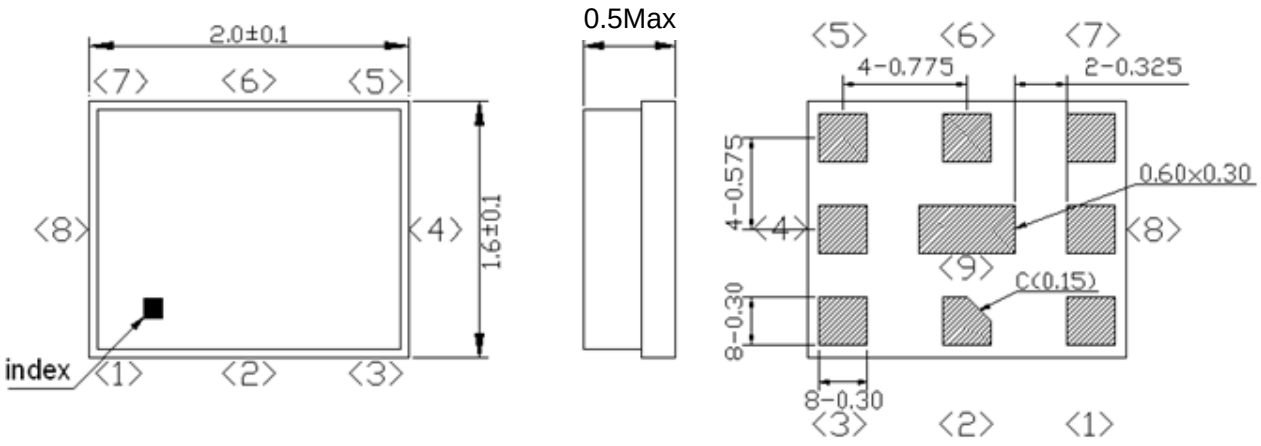
Dimensions



< Top View> < Side View> < Bottom View>

Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	Rx	Receiver Pin
2	GND	Ground Pin
3	Tx	Transmitter Pin
4	GND	Ground Pin
5	GND	Ground Pin
6	ANT	Antenna Pin
7	GND	Ground Pin
8	GND	Ground Pin
9	GND	Ground Pin

Figure 1. Dimensions and Pin assignment

Pb-free

RoHS

MSL1

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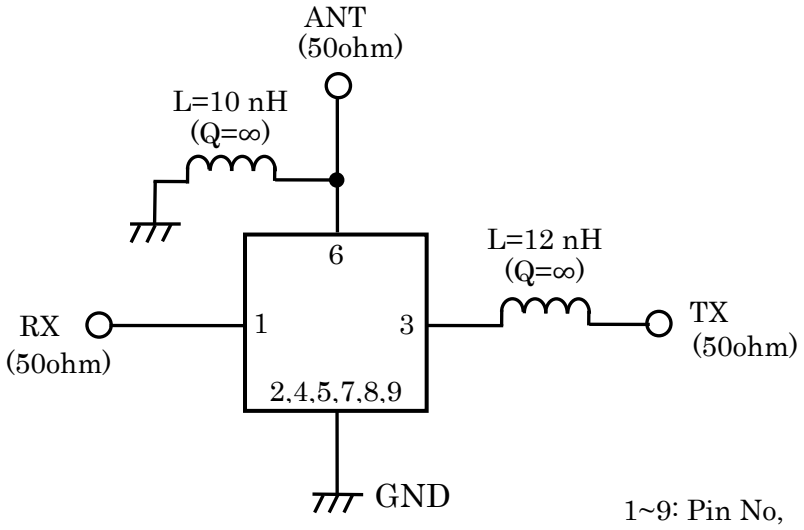
Evaluation Circuit



Recommended foot print pattern

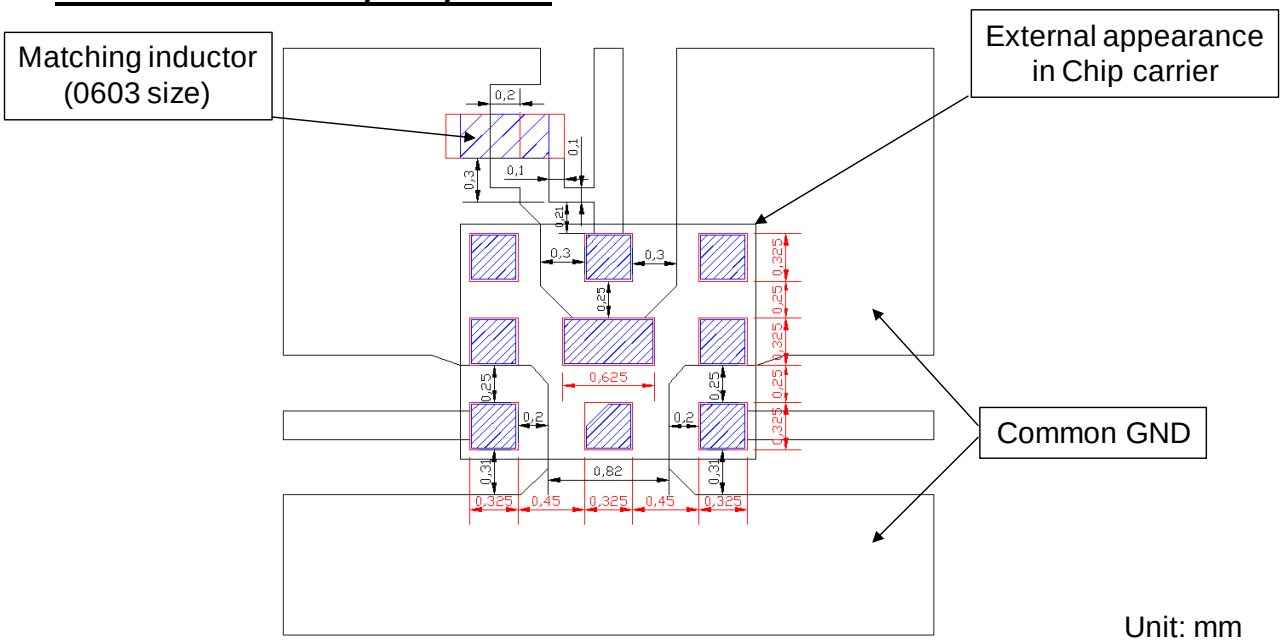


Figure 2. Recommended foot print pattern

Pb-free RoHS MSL1

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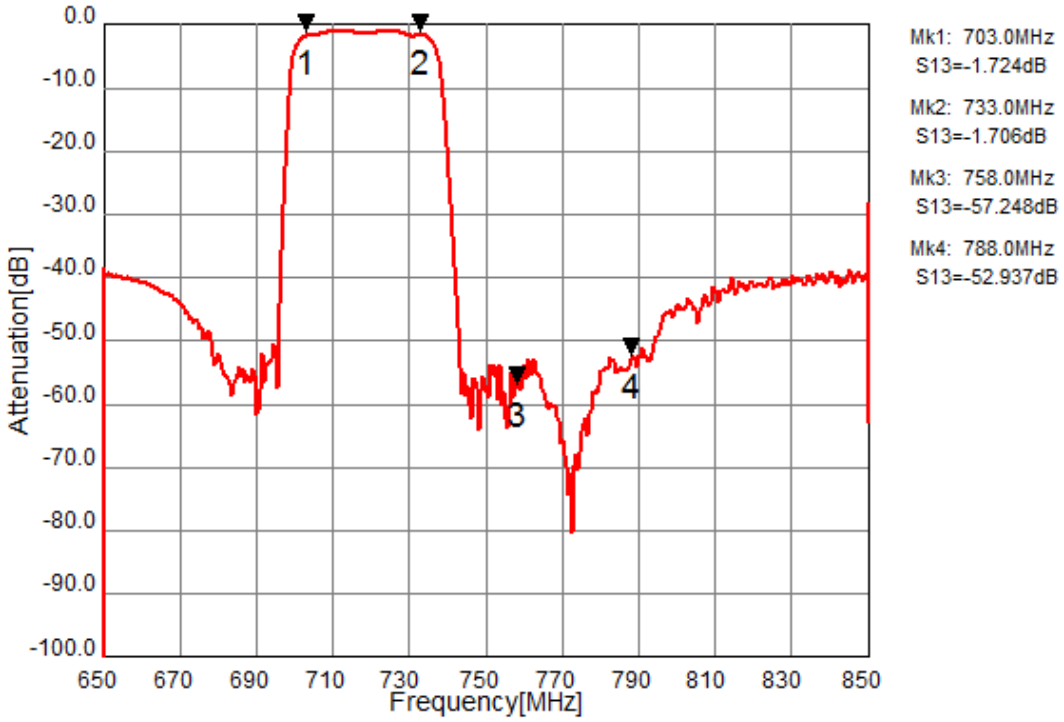
Tx to Ant



Ant to Rx

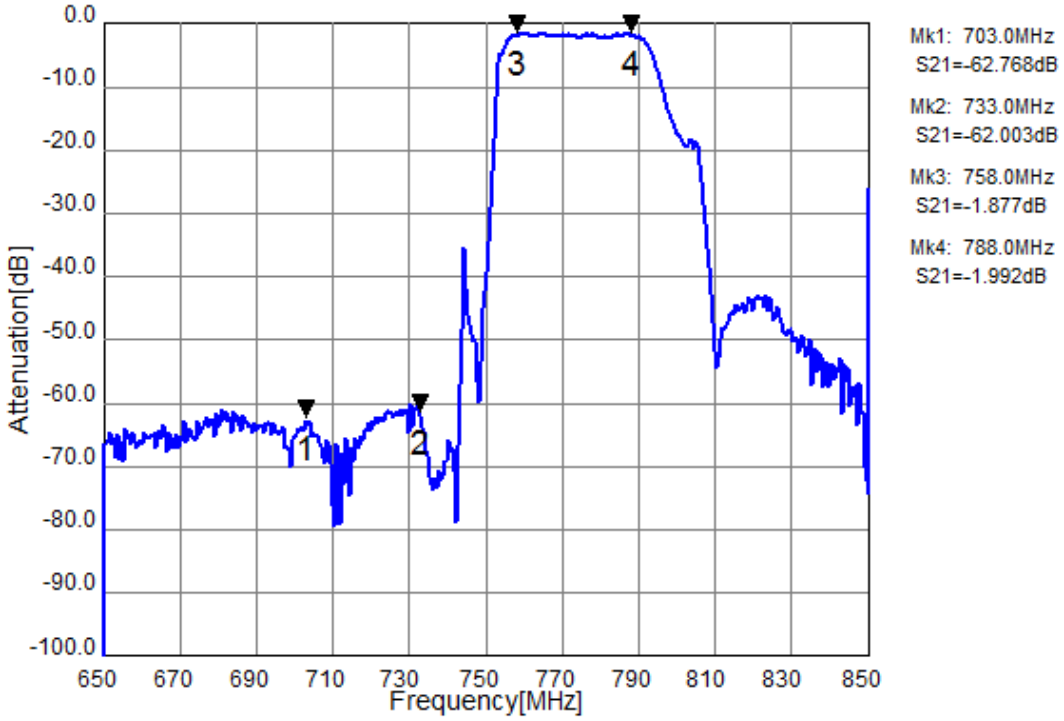


Figure 3-1. Electrical Characteristics

These data exclude loss that comes from the test board.

Pb-free RoHS MSL1

* Pb Free Part

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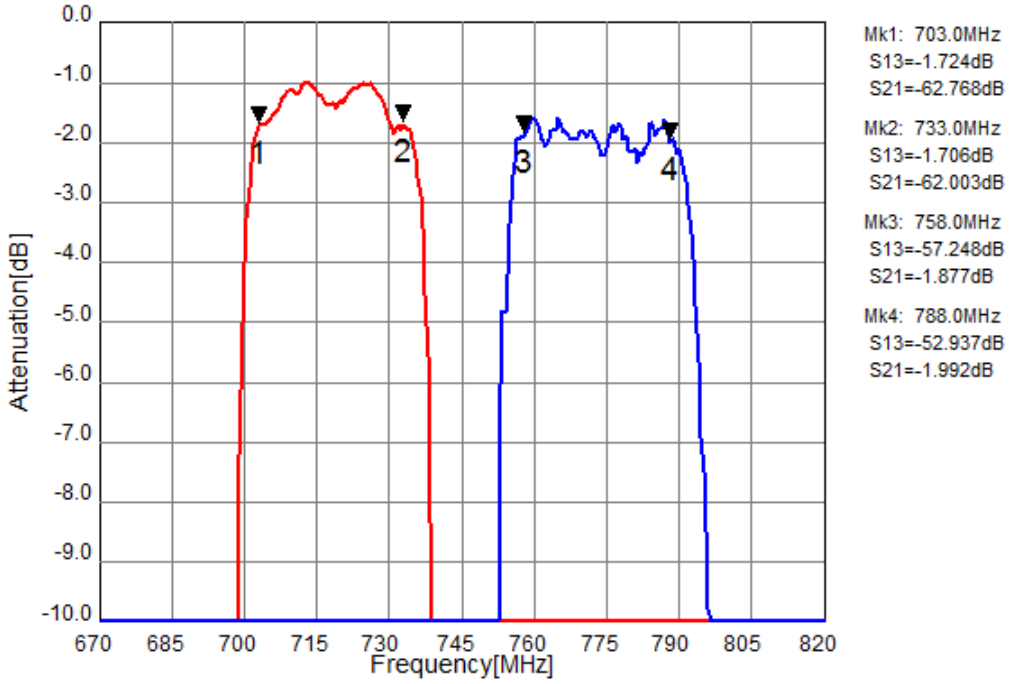
Tx to Ant, Ant to Rx



Tx to Rx Isolation

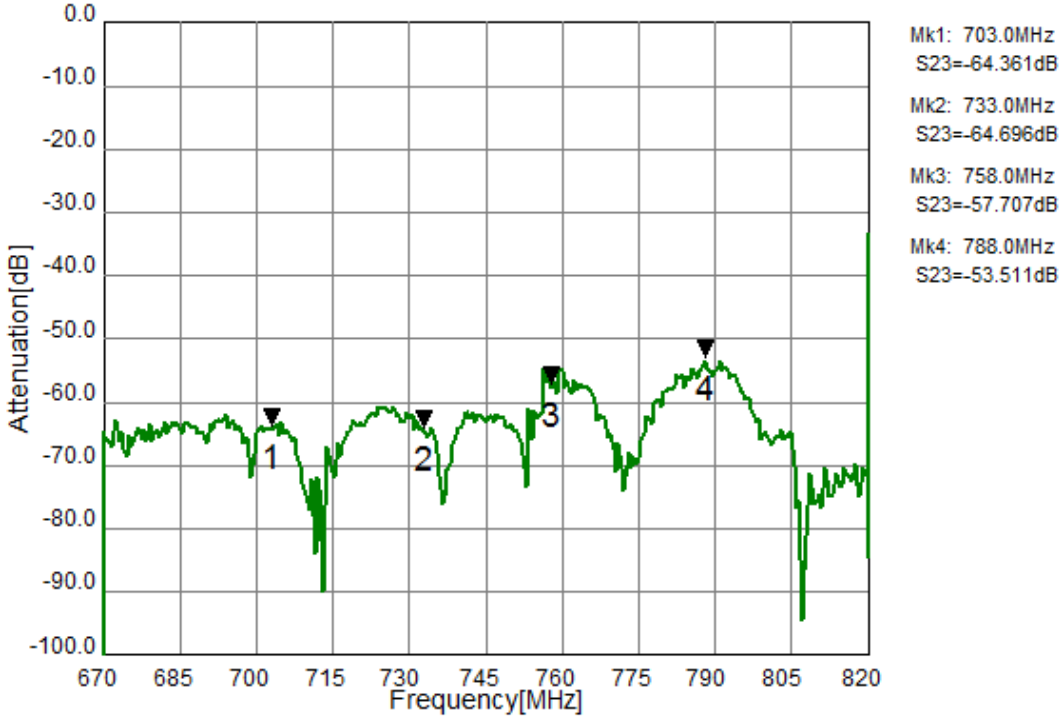


Figure 3-2. Electrical Characteristics

These data exclude loss that comes from the test board.

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System	Band 28 Block A Duplexer	Date	Apr. 4, 2014
Part Number	D5PF773M0M3Y6	Version 2.1bbB	Final

Tx Port

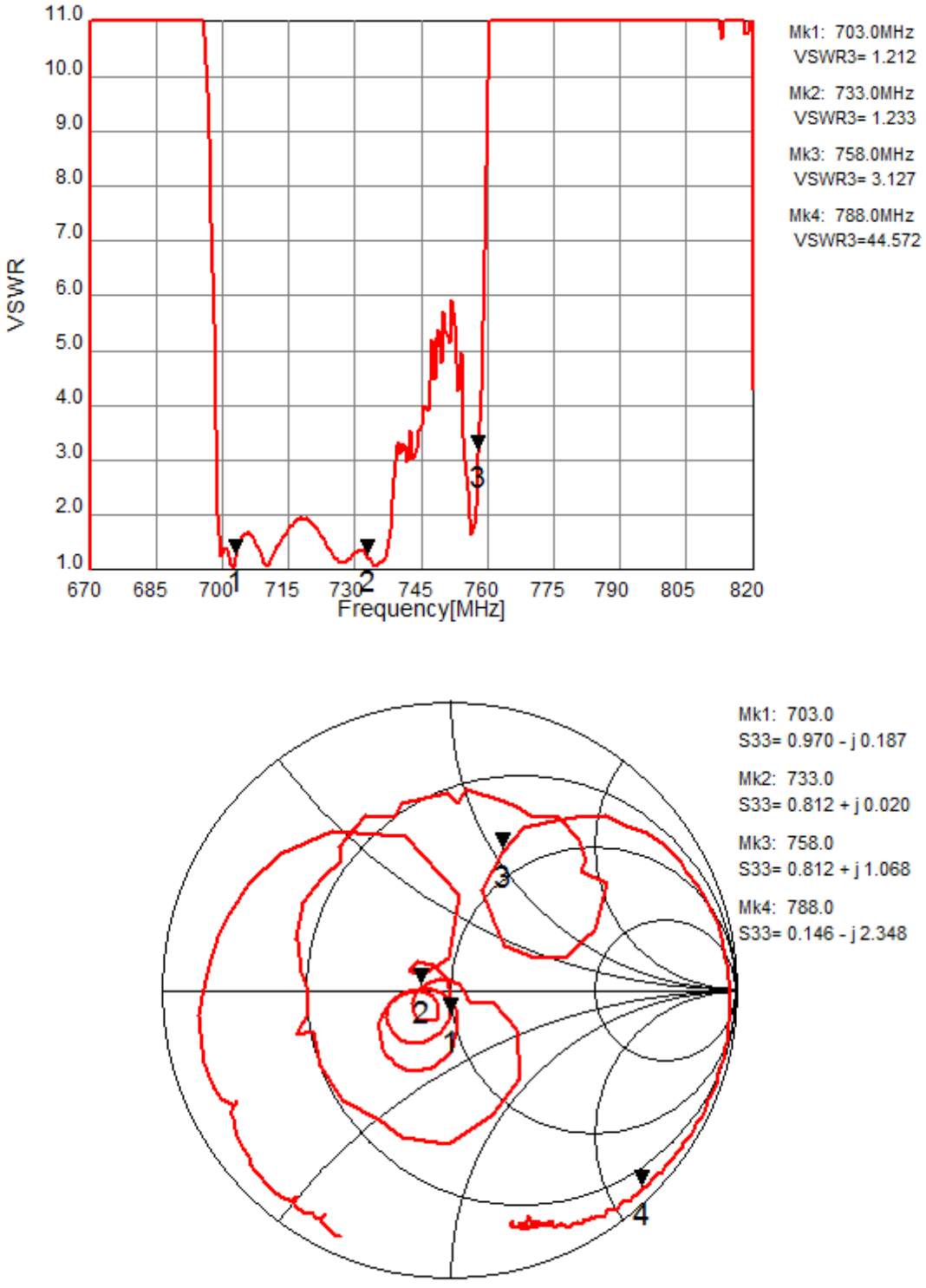
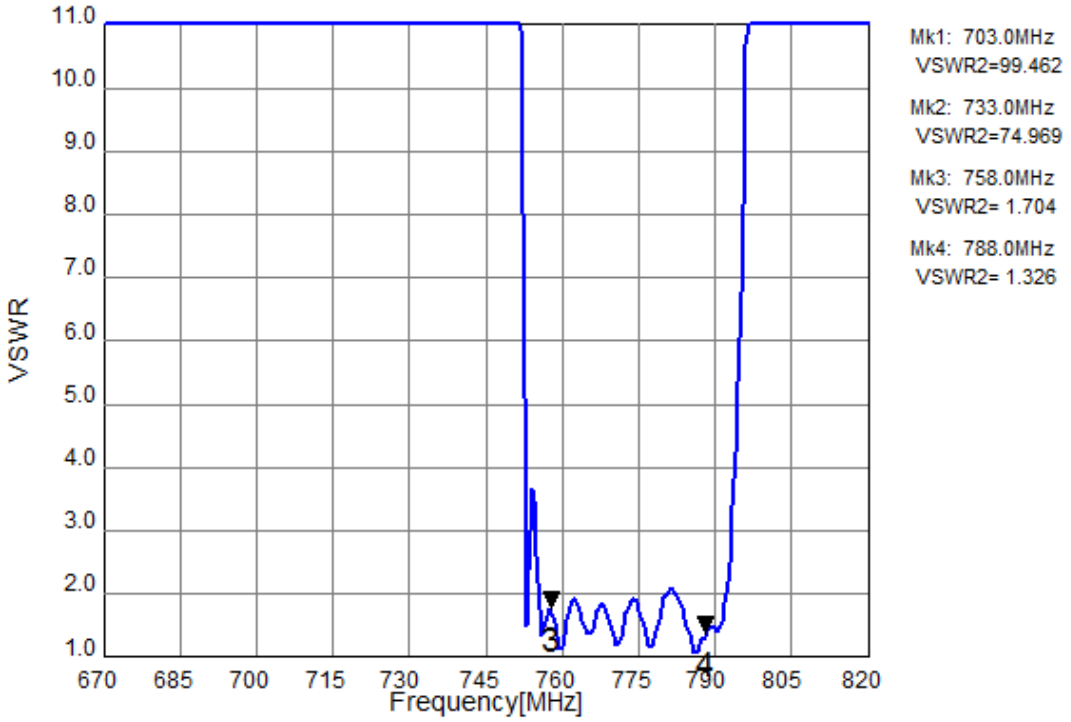


Figure 3-3. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 28 Block A Duplexer	Date	Apr. 4, 2014
Part Number	D5PF773M0M3Y6	Version 2.1bbB	Final

Rx Port



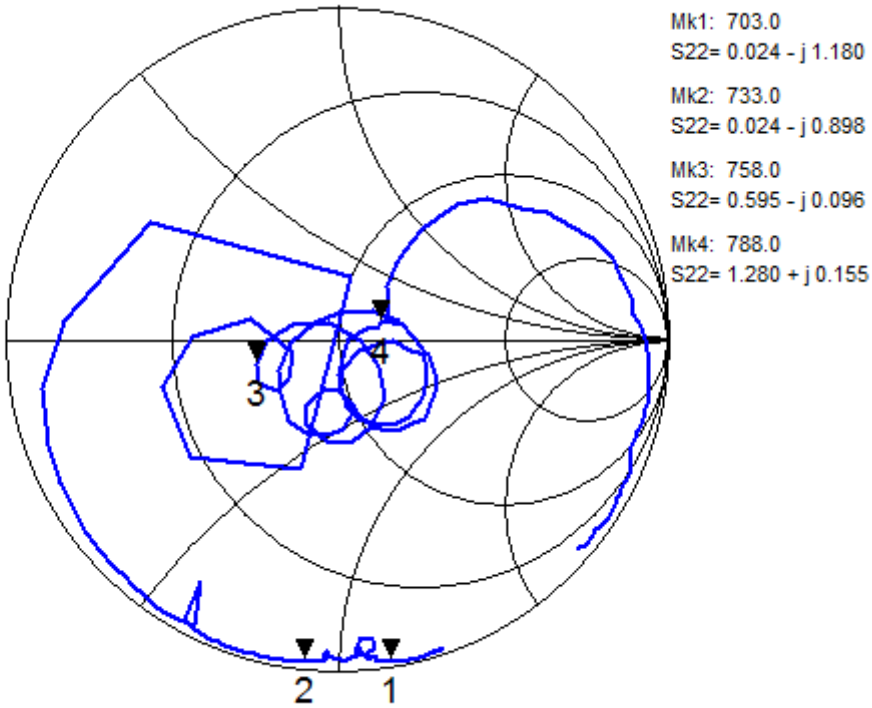


Figure 3-4. Electrical Characteristics

Pb-free

RoHS

MSL1

* Pb Free Part

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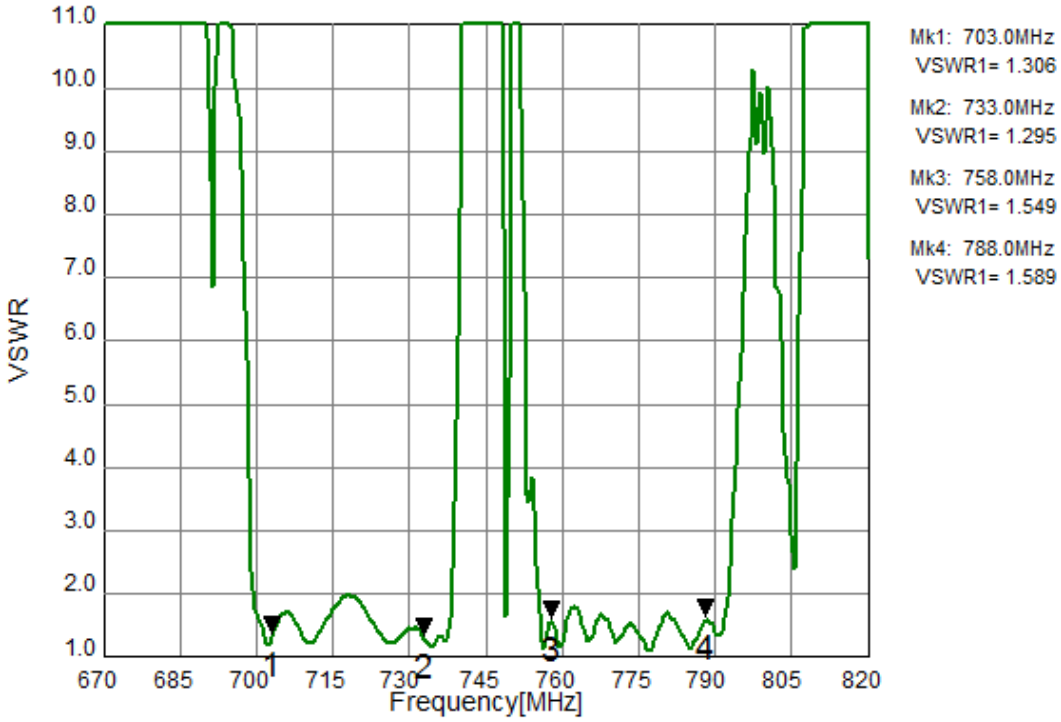
Ant Port



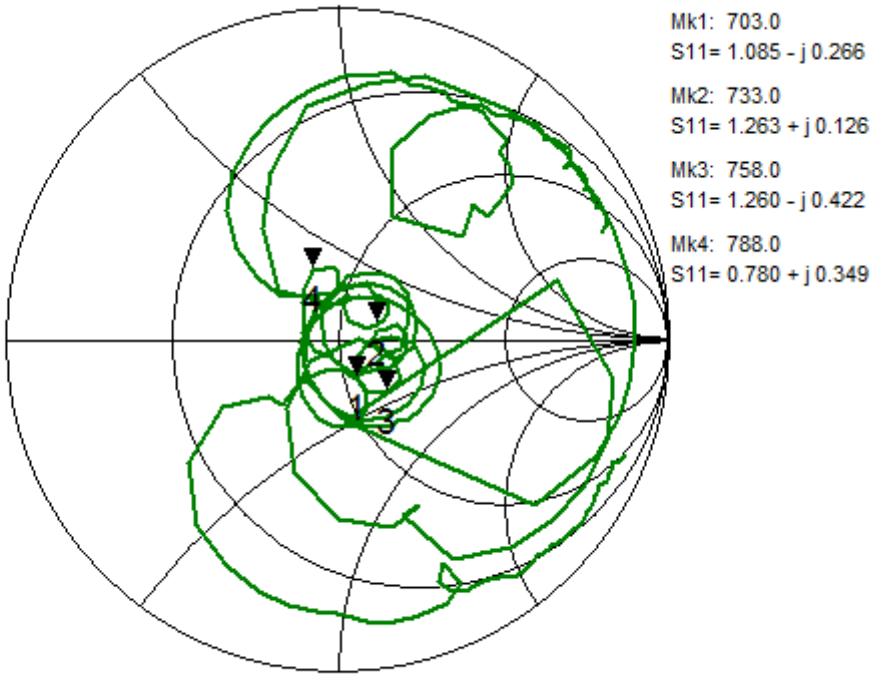


Figure 3-5. Electrical Characteristics

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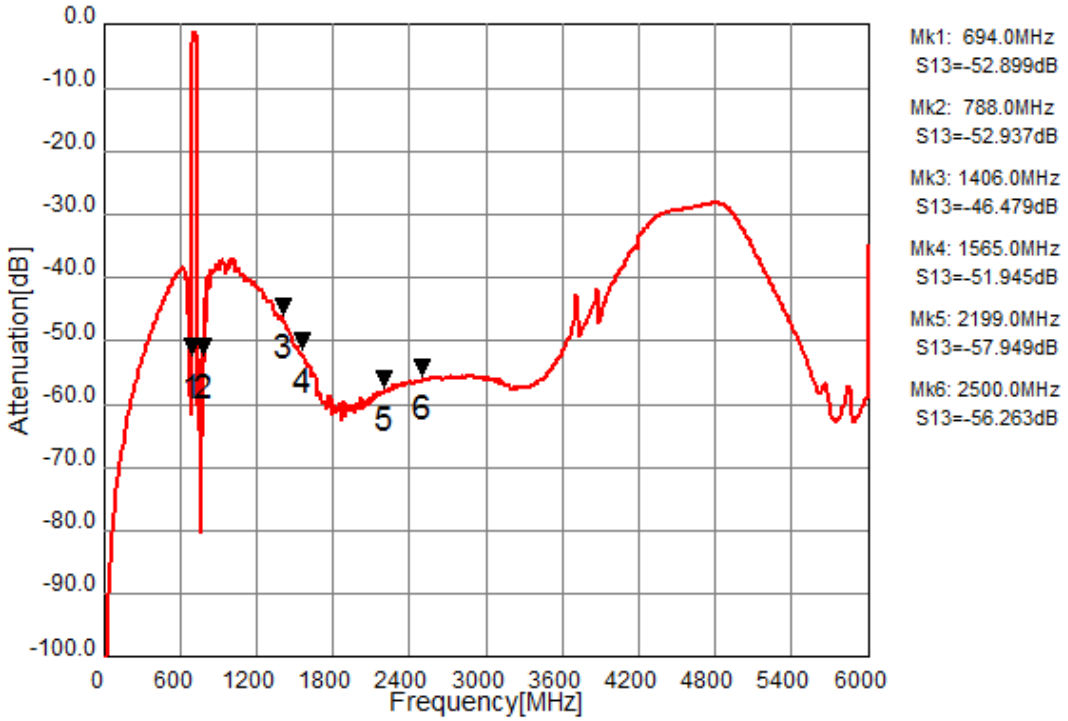
Tx to Ant (Wide span)



Ant to Rx (Wide span)

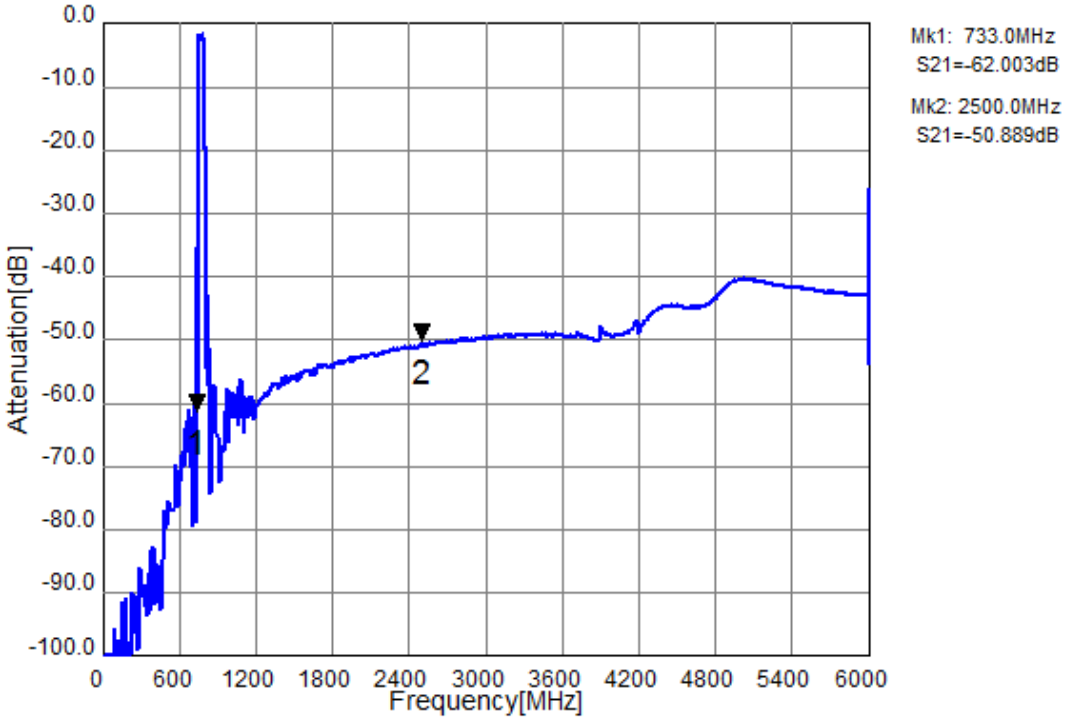


Figure 3-6. Electrical Characteristics

Tx to Rx (Wide span)

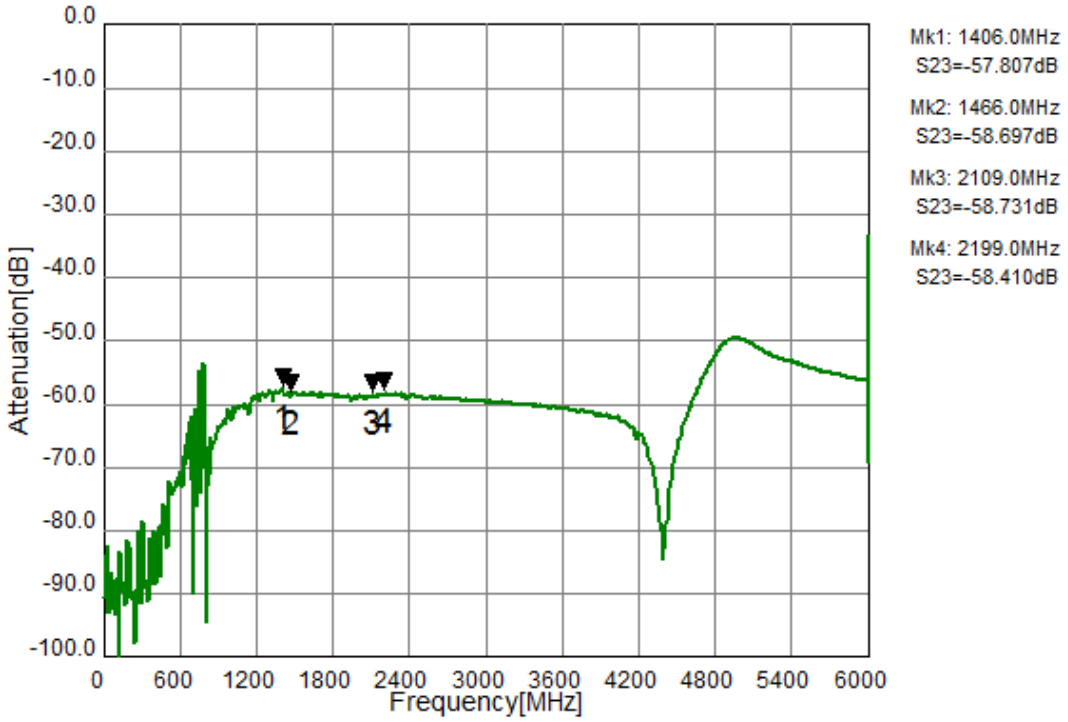


Figure 3-7. Electrical Characteristics

Pb-free RoHS MSL1

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Ordering Code

Ordering Code	Packing	Reel size	Status
D5PF773M0M3Y6-Z	Tape & Reel	3,000 pcs.	MP
D5PF773M0M3Y6-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5PF773M0M3Y6-Y	Tape & Reel	15,000 pcs.	MP
D5PF773M0M3Y6-YA	Tape & Reel	less than 15,000 pcs.	MP
D5PF773M0M3Y6-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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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.