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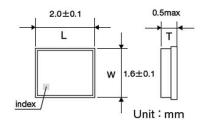
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Spec Sheet

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
Туре	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 °C
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

The data is reference only. Electrical characteristics vary depending on environment or measurement condition. TAIYO YUDEN reserves the right to make change to the Date at any time without notice. Before making final selection, please check product specification.



<u>* Pb Free Part</u>			
Customer Name	Standard	TAIYO YUDEN M	obile Technology Co., Ltd.
System	Band 28 Block A Duplexer	Date	Apr. 4, 2014
Part Number	D5PF773M0M3Y6	Version 2.1bbB	Final

			Table 1. El	ectrical	Specili	cation		
	Item		Condition			Unit	Remarks	
	Item		(MHz)			Unit	Remarks	
Тx	Insertion	loss	703~733	-	1.8	3.1	dB (*1)	
to	Ripple		703~733	-	0.8	2.5	dB	
ANT	VSWR	ANT	702 722	-	2.0	2.3	-	
	VSWR	Тх	703~733	-	2.0	2.3	-	
	Input pov	ver	703~733	CW tor	ie, +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	Insertion	loss	758~788	-	2.3	2.8	dB (*1)	
to	Ripple		758~788	-	0.7	1.6	dB	
Rx	VSWR	ANT	758~788	-	1.8	2.2	-	
	VOVIK	Rx	150~100	-	2.1	2.4	-	
	Absolute	attenuation	703~733	50	60	-	dB	
			2400~2500	45	51	-	dB	
Tx to	Isolation		703~733	56	60	-	dB	
Rx	ISUIALIUIT		758~788	50	53	-	dB	
Terminating Impedance Tx port		Tx port	50 + 12nH		Ohm	Single-ended		
	Rx port		Rx port		50		Ohm	Single-ended
			Ant port		50 // 10nH		Ohm	Single-ended
Opera	ting Temp	erature			-20 to +85		∘C	
Device	e size (LxV	/xH)		2.0(typ) >	(1.6(typ) x	0.5(max)	mm	

Table 1. Electrical Specification

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

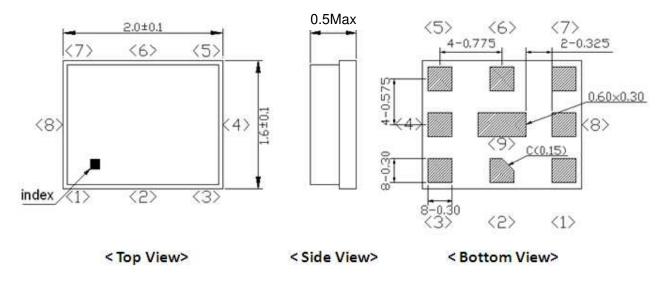
Pb	
Pb-free	

RoHS MSL1

Pb-free * Pb Free Part

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Dimensions



Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	Rx	Receiver Pin
2	GND	Ground Pin
3	Тx	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

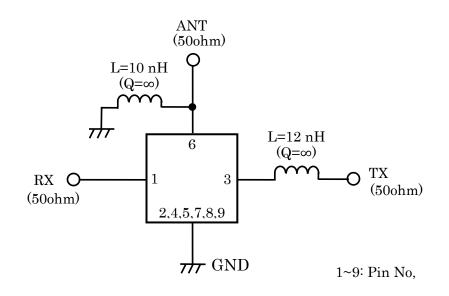
Figure 1. Dimensions and Pin assignment

RoHS MSL1

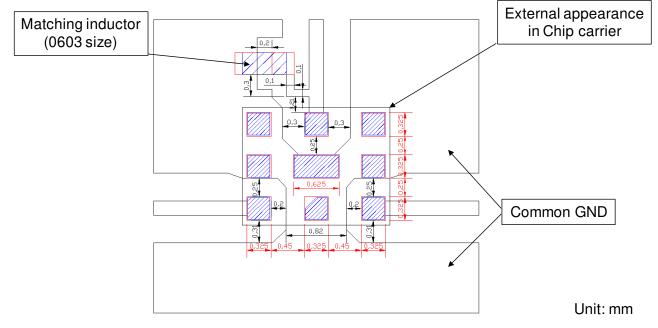
Pb-free * Pb Free Part

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Evaluation Circuit



Recommended foot print pattern



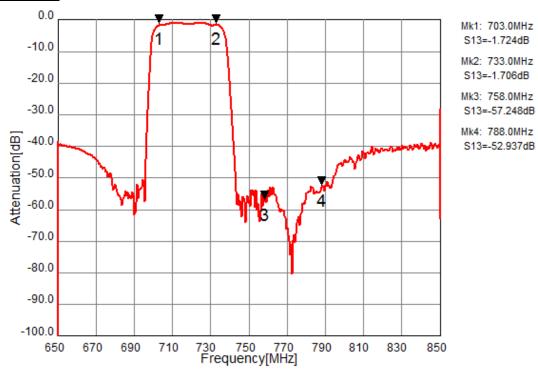




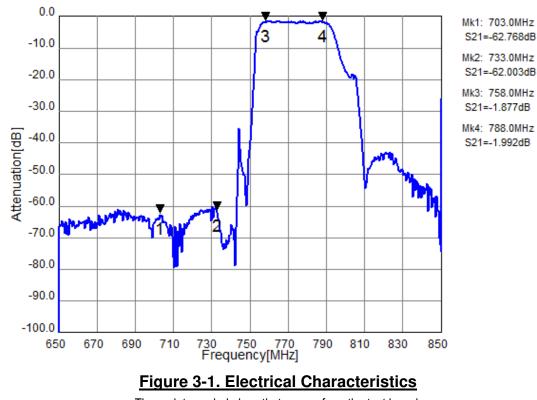
* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Ma	bile Technology Co.,Ltd.
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Tx to Ant







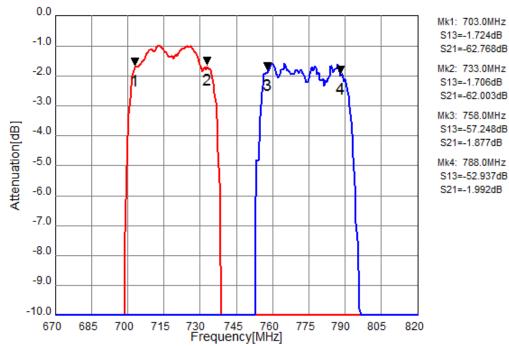
These data exclude loss that comes from the test board.

RoHS MSL1

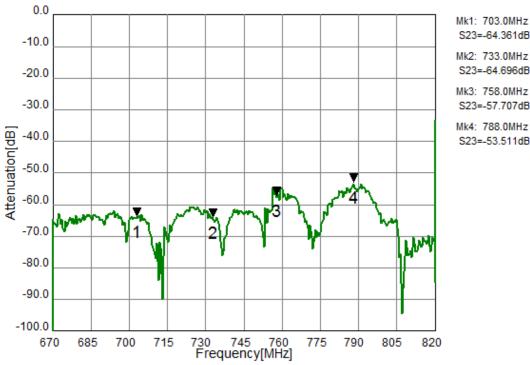
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Tx to Ant, Ant to Rx



Tx to Rx Isolation



S23=-64.361dB

S23=-64.696dB

Mk3: 758.0MHz S23=-57.707dB

Mk4: 788.0MHz S23=-53.511dB

Figure 3-2. Electrical Characteristics

These data exclude loss that comes from the test board.



Pb-free * Pb Free Part

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Tx Port

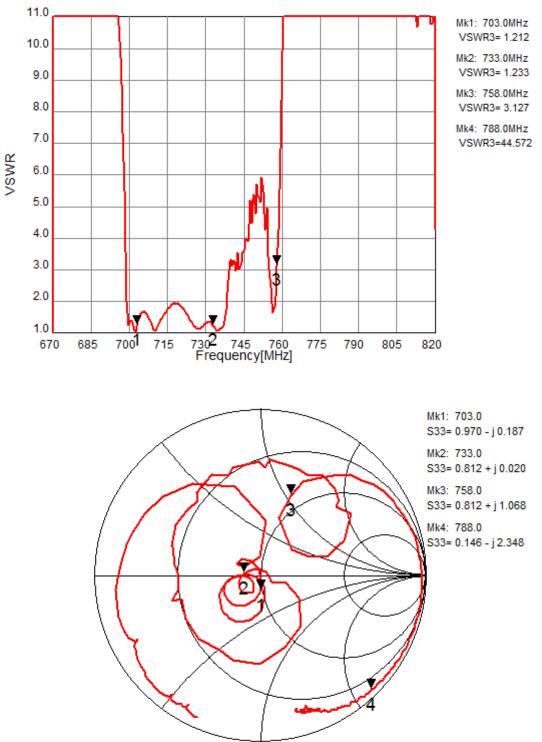


Figure 3-3. Electrical Characteristics

RoHS) MSL1

Pb-free] * Pb Free Part

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Rx Port

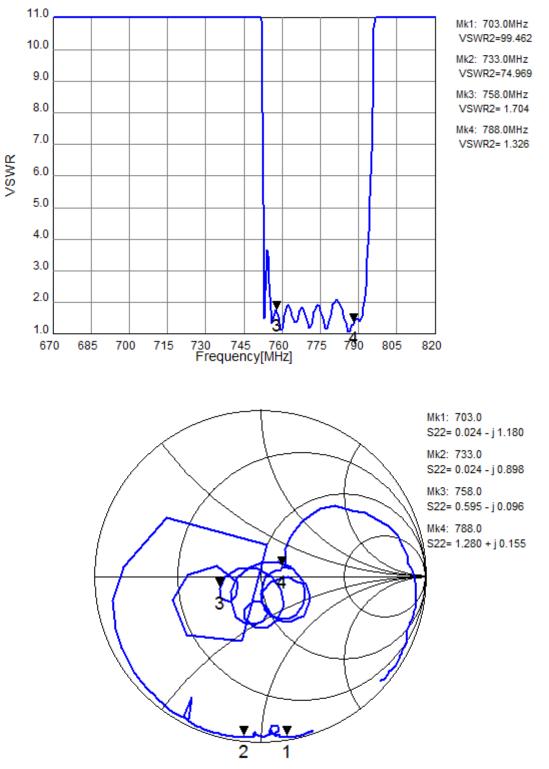


Figure 3-4. Electrical Characteristics



Pb-free * 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

Ant Port

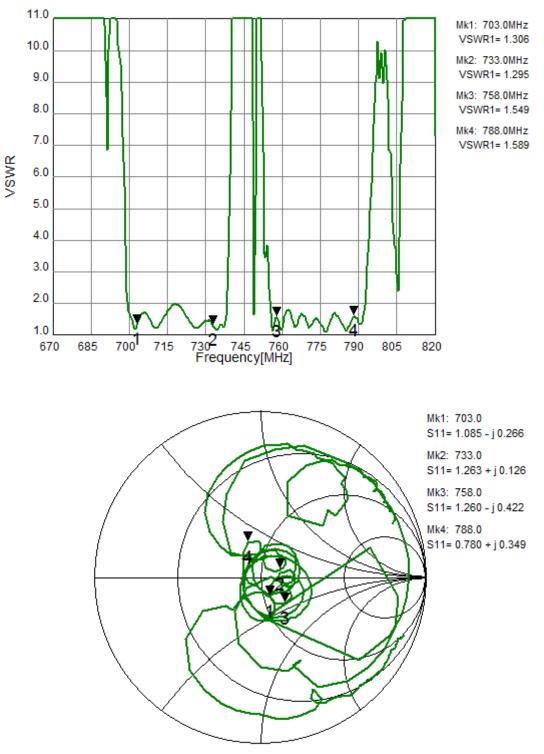


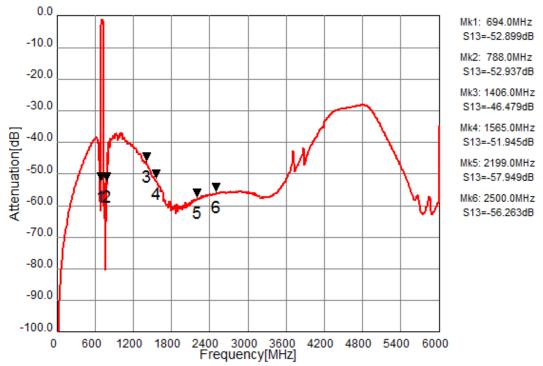
Figure 3-5. Electrical Characteristics

RoHS) MSL1

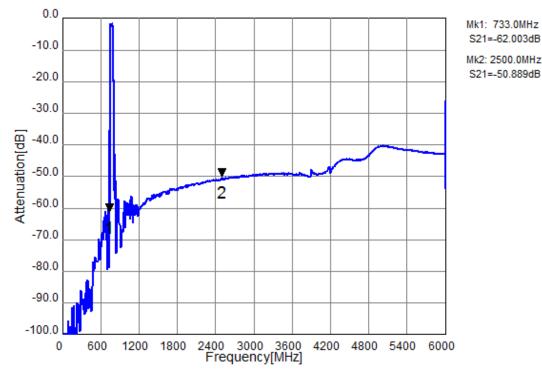
Pb-free * Pb Free Part

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Tx to Ant (Wide span)



Ant to Rx (Wide span)







* Ph Free Part

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Tx to Rx (Wide span)

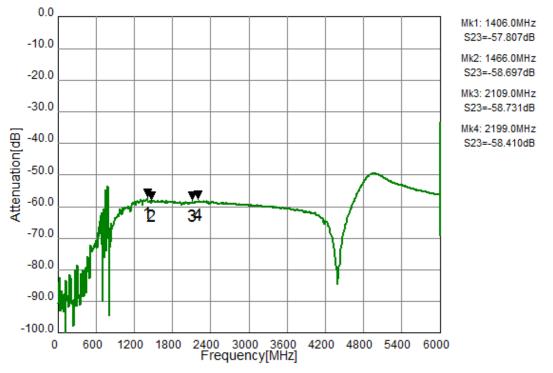


Figure 3-7. Electrical Characteristics

Pb	
Pb-free	



* Pb Free Part

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System	Band 28 Block A Duplexer	Date	Apr. 4, 2014
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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- <mark>YA</mark>	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

Notice

All of the contents specified herein are subject to change without notice due to technical improvements, etc.

Please contact Taiyo Yuden Co., Ltd. for further details of product specifications.

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

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact Taiyo Yuden in advance.

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.