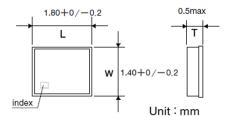
Spec Sheet

FBAR/SAW Devices (SAW Duplexers)

D6DA2G132K2D4



Features

- Item Summary
 SAW, Duplexer, 1.8x1.4x0.5mm
 Band 4 / BC15
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 3000, 15000pcs

Products characteristics table

System	W-CDMA / CDMA / LTE
Туре	SAW
Function	Duplexer
band	Band 4 / BC15
Insertion Loss (typ) (Tx-ANT/ANT-Rx)	1.5/1.7 dB
Isolation (typ)	57/55 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	1.8 + 0/- 0.20 mm
Dimension W	1.4 + 0/- 0.20 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.





1 b 1 loc l alt			
Customer Name	Standard	TAIYO YUDEN M	obile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final

Table 1. Electrical Specification

Item		Condition	;	Specification	n	Unit	Remarks	
		(MHz)	Min	Тур	Max			
Tx	Insertion los	S	1710~1755	-	1.5	2.0	dB (*1)	
to	Ripple		1710~1755	-	0.6	1.2	dB	
ANT	VSWR	Tx	4740 4755	1	1.6	2.0	-	
		ANT	1710~1755	-	1.6	2.0	-	
	Input power		1710~1755	+29	dBm,Ta=+5 50kh,CW	50°C	dBm	
	Absolute att	enuation	1559~1585.42	40	43	-	dB	
			2110~2155	44	52	-	dB	
			2400~2500	36	42	-	dB	
			3420~3510	29	35	-	dB	
		5130~5265	21	28	-	dB		
ANT	Insertion los	s	2110~2155	-	1.7	2.2	dB (*1)	
to	Ripple	_	2110~2155	-	0.4	1.0	dB	
Rx	VSWR	ANT	2110~2155	-	1.5	2.0	-	
		Rx	2110-2133	-	1.6	2.0	-	
	Absolute att	enuation	1710~1755	44	50	-	dB	
			2400~2500	35	41	-	dB	
			3820~3910	36	43	-	dB	
Tx to	Isolation		1710~1755	52	57	-	dB	
Rx	Rx		2110~2155	50	55	-	dB	
Termina	Terminating Impedance		Tx port		50 // 9.1nH		Ohm	Single-ended
			Rx port		50		Ohm	Single-ended
Ant port		Ant port		50 // 4.3nl	1	Ohm	Single-ended	
Operatir	ng Temperatu	re			-20 to +85		۰C	
Devices	size (LxWxH)			1	.8 x 1.4 x 0	.5	mm	

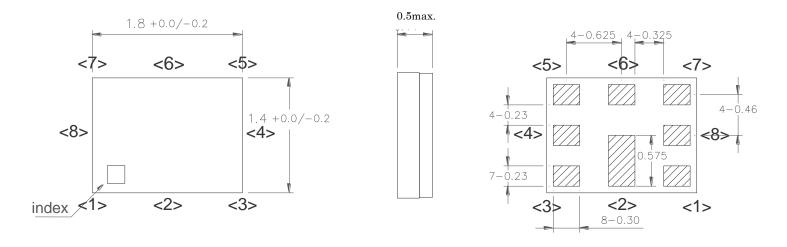
(*1) Specification of insertion loss excludes loss that comes from the test board





Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., L		
System	Band 4 Duplexer	Date	Mar. 6, 2015	
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final	

Dimensions



Pin Configuration

Pin No.	Pin name	Description
T III INO.	1 III Hairie	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

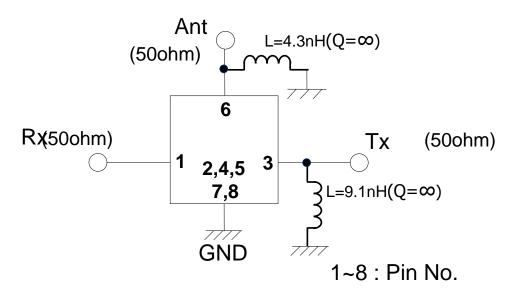
Figure 1. Dimensions and Pin assignment





Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final

Evaluation Circuit



Recommended foot print pattern

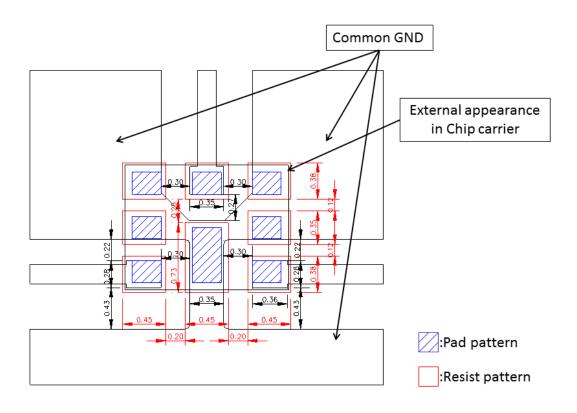


Figure 2. Recommended foot print pattern



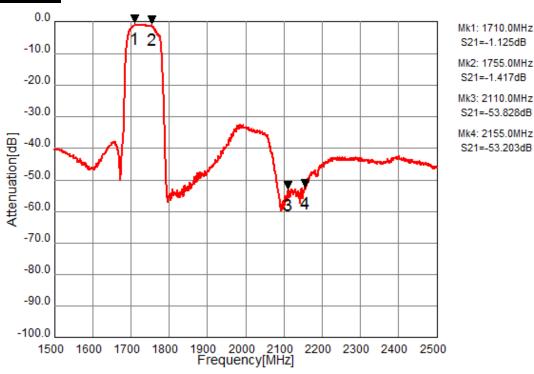




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Customer Name	Standard	TAIYO YUDEN M	obile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final

Tx to Ant



Ant to Rx

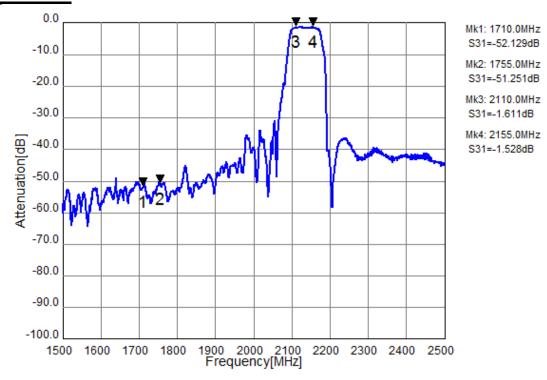


Figure 3-1. Electrical Characteristics

These data exclude loss that comes from the test board.

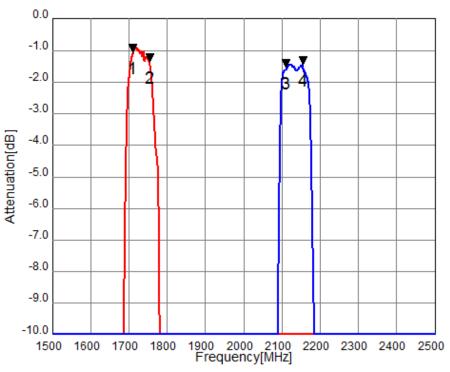






Customer Name	Standard	TAIVO VIIDEN Mo	bile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final

Tx to Ant, Ant to Rx



Mk1: 1710.0MHz S21=-1.125dB S31=-52.129dB

Mk2: 1755.0MHz S21=-1.417dB S31=-51.251dB

Mk3: 2110.0MHz S21=-53.828dB S31=-1.611dB

Mk4: 2155.0MHz S21=-53.203dB S31=-1.528dB

Tx to Rx Isolation

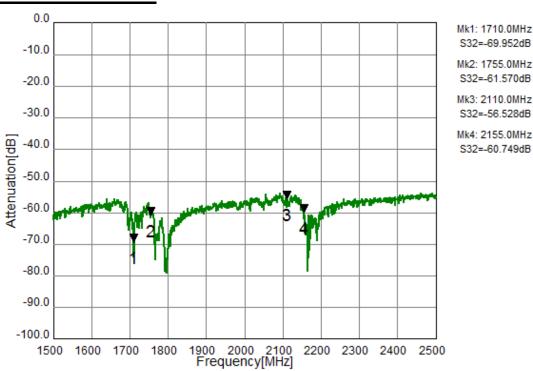


Figure 3-2. Electrical Characteristics

These data exclude loss that comes from the test board.





Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final

Tx Port

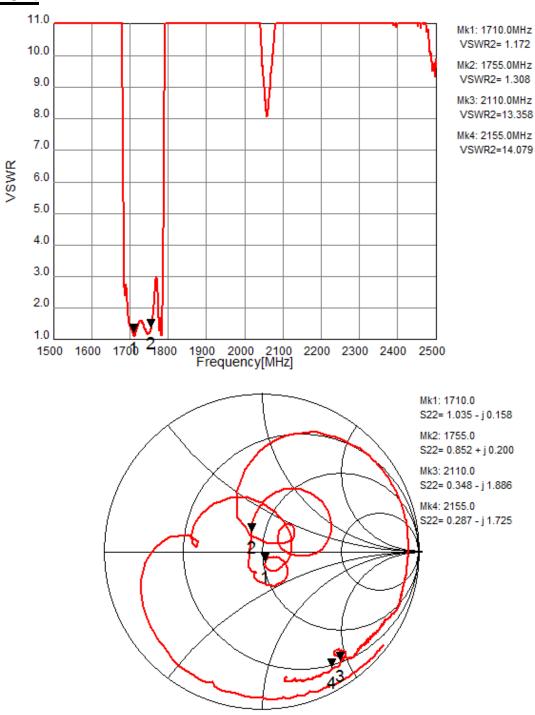


Figure 3-3. Electrical Characteristics





1 0 1 100 1 011			
Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final

Rx Port

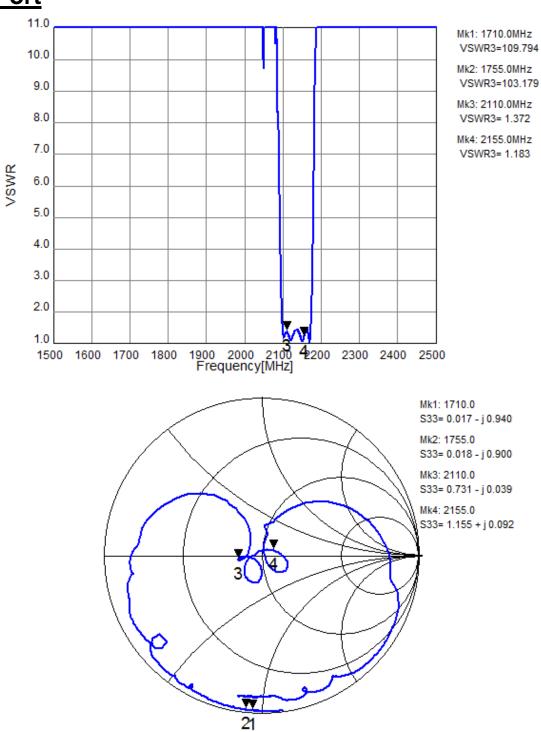


Figure 3-4. Electrical Characteristics







I D I IOO I GIL			
Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final

Ant Port

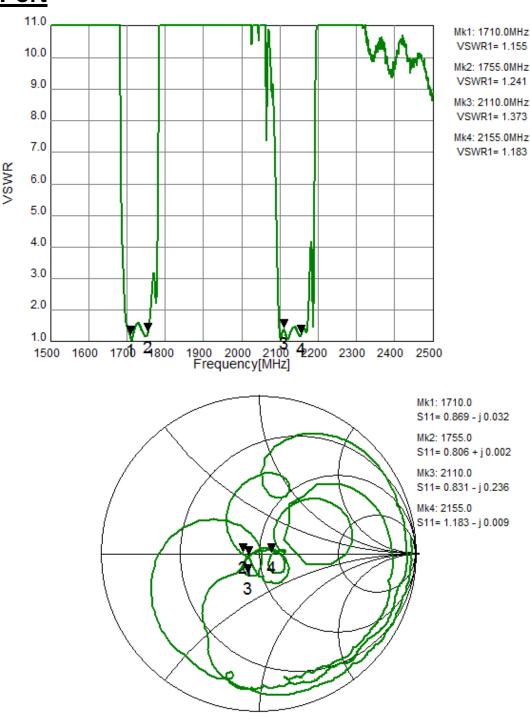


Figure 3-5. Electrical Characteristics

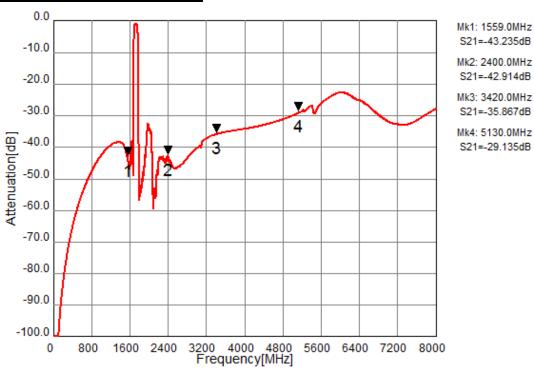






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Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.			
System	Band 4 Duplexer	Date	Mar. 6, 2015		
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final		

Tx to Ant (Wide span)



Ant to Rx (Wide span)

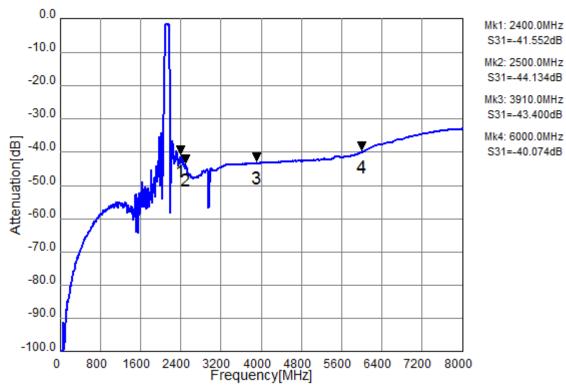


Figure 3-6. Electrical Characteristics







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FD FIEE FAIL					
Customer Name	Standard	TAIYO YUDEN M	TAIYO YUDEN Mobile Technology Co.,Ltd.		
System	Band 4 Duplexer	Date	Mar. 6, 2015		
Part Number	D6DA2G132K2D4	Ver.2.0efE	Final		

Ordering Code

Ordering Code	Packing	Reel size	Status
D6DA2G132K2D4-Z	Tape & Reel	3,000 pcs.	MP
D6DA2G132K2D4-ZA	Tape & Reel	less than 3,000 pcs.	MP
D6DA2G132K2D4-Y	Tape & Reel	15,000 pcs.	MP
D6DA2G132K2D4-YA	Tape & Reel	less than 15,000 pcs.	MP
D6DA2G132K2D4-Q	Bulk	few pcs.	MP

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

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.



^{*}MP : Mass Production