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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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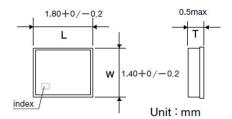




Spec Sheet

FBAR/SAW Devices (SAW Duplexers)

D6DA2G132K2D4



Features

- Item SummarySAW, Duplexer, 1.8x1.4x0.5mmBand 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.





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

Table 1. Electrical Specification

ltem		Condition	;	Specification	n	Unit	Remarks	
		(MHz)	Min	Тур	Max			
Tx	Insertion los	SS	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 at	tenuation	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	SS	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 at	tenuation	1710~1755	44	50	-	dB	
			2400~2500	35	41	-	dB	
			3820~3910	36	43	-	dB	
Tx to	Isolation		1710~1755	52	57	-	dB	
Rx		2110~2155	50	55	-	dB		
Terminating Impedance		Tx port	50 // 9.1nH		Ohm	Single-ended		
		Rx port	50		Ohm	Single-ended		
Ant port		Ant port		50 // 4.3nh	1	Ohm	Single-ended	
Operatir	ng Temperatu	ire			-20 to +85		°C	
Device s	size (LxWxH)			1.8 x 1.4 x 0.5		mm		

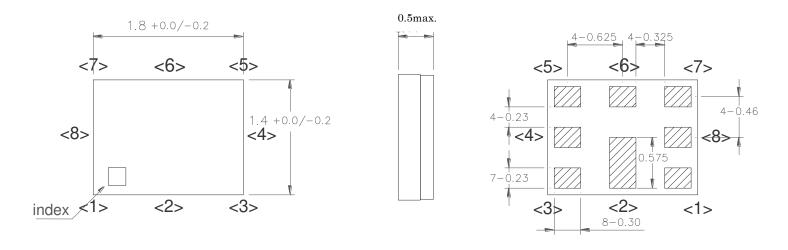
(*1) Specification of insertion loss excludes loss that comes from the test board





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

Dimensions



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

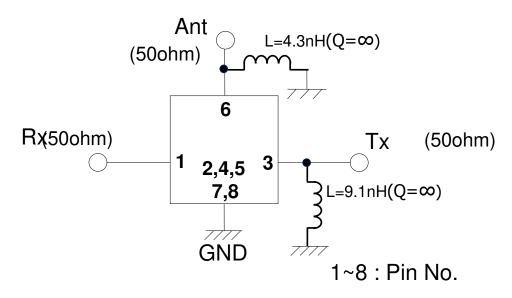
Figure 1. Dimensions and Pin assignment





Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
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Evaluation Circuit



Recommended foot print pattern

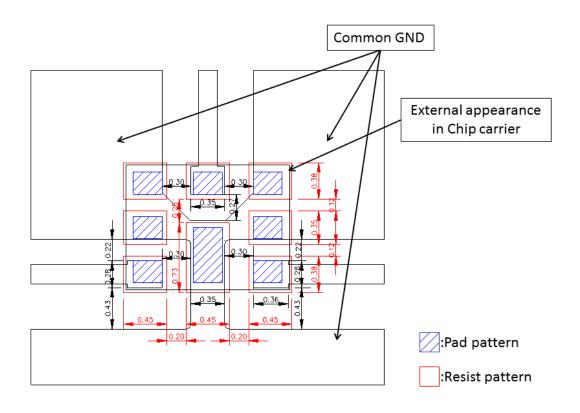


Figure 2. Recommended foot print pattern

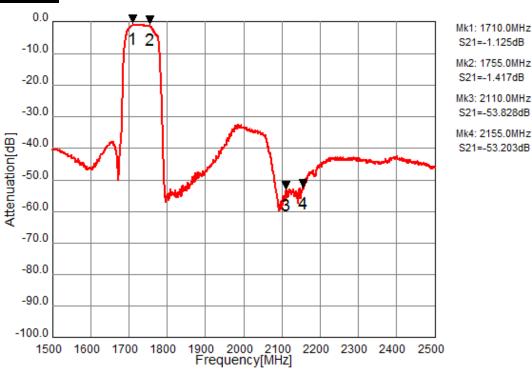






Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
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Tx to Ant



Ant to Rx

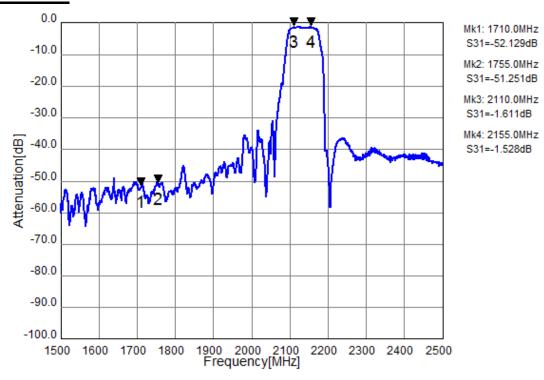


Figure 3-1. Electrical Characteristics

These data exclude loss that comes from the test board.

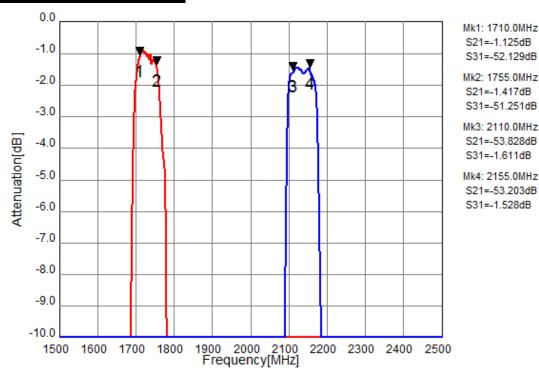






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Customer Name	Standard	TAIYO YUDEN M	obile Technology Co.,Ltd
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

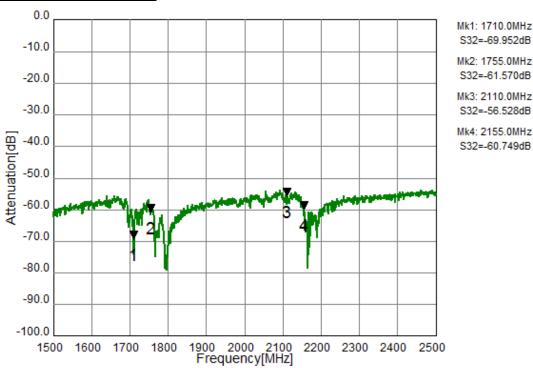


Figure 3-2. Electrical Characteristics

These data exclude loss that comes from the test board.





Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
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Tx Port

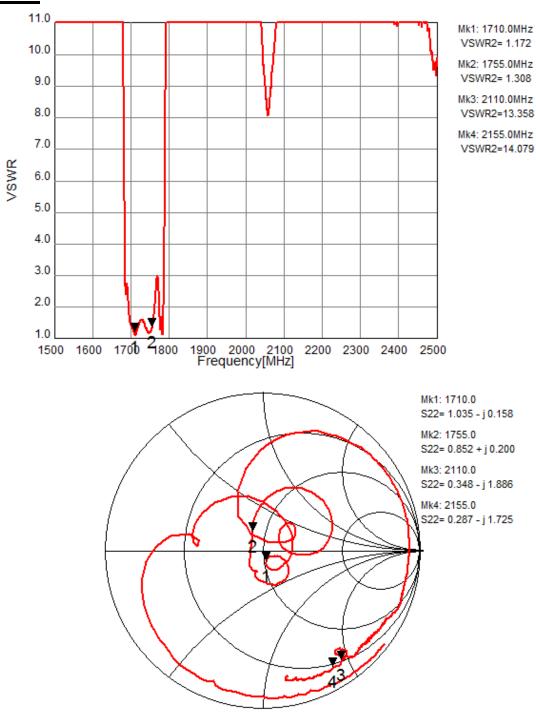


Figure 3-3. Electrical Characteristics





Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd
System	Band 4 Duplexer	Date	Mar. 6, 2015
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Rx Port

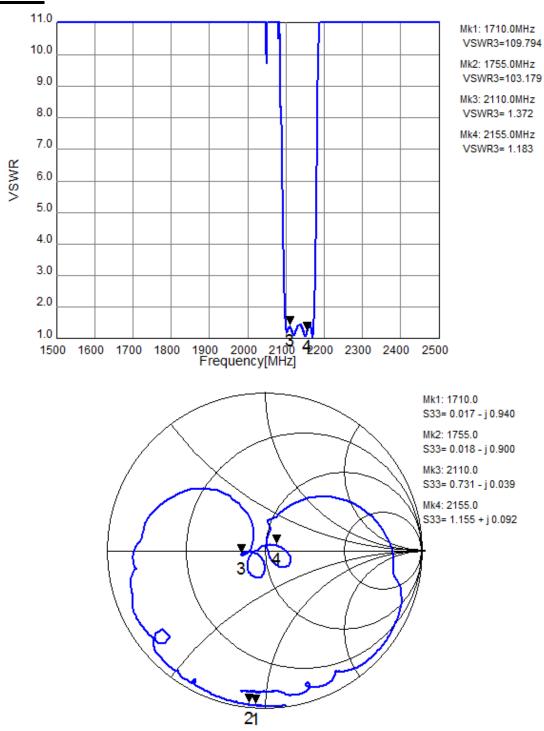


Figure 3-4. Electrical Characteristics







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

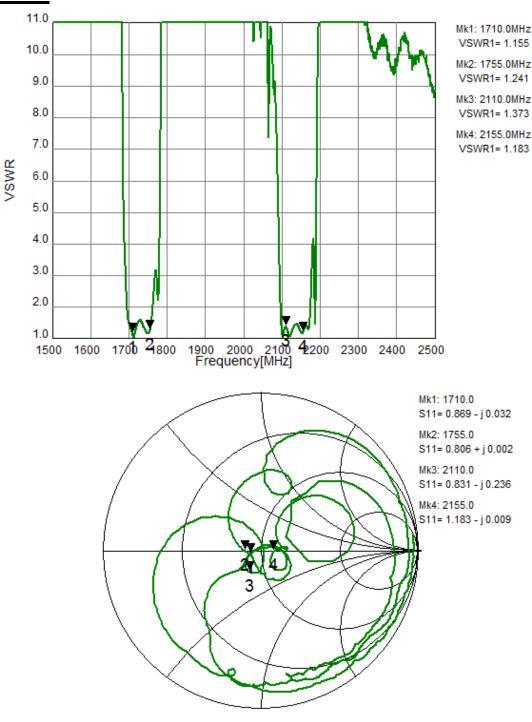


Figure 3-5. Electrical Characteristics

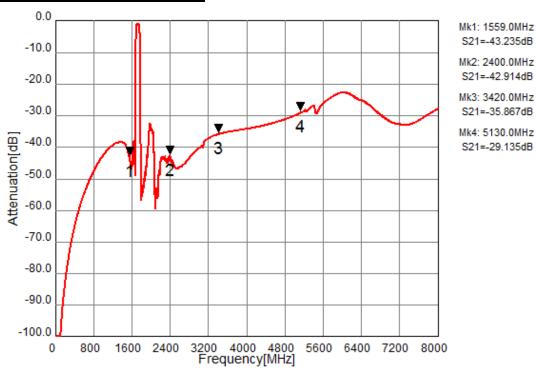




MSL1

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

Tx to Ant (Wide span)



Ant to Rx (Wide span)

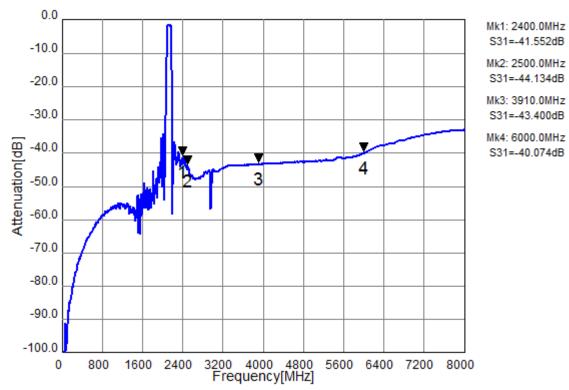


Figure 3-6. Electrical Characteristics







Customer Name	Standard	TAIVO VIIDEN MA	shila Taabaalagy Ca. Ltd
System	Band 4 Duplexer	Date	bile Technology Co.,Ltd 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