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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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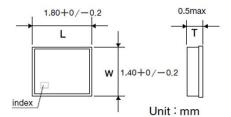




Spec Sheet

FBAR/SAW Devices (SAW Duplexers)

D6DA2G132K2D9



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)	1.6/1.8 dB
Isolation (typ)	60/56 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.





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Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd.
System	Band 4 Duplexer	Date	Feb. 16, 2016
Part Number	D6DA2G132K2D9	Version 1.0fgE	Final

Table 1. Electrical Specification

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ltem		Condition	,	Specification	n	Unit	Remarks	
		(MHz)	Min	Тур	Max			
Tx	Insertion loss	8	1710~1755	-	1.6	2.0	dB (*1)	
to	Ripple		1710~1755	-	0.6	1.2	dB	
Ant	VSWR	Тх	1710~1755	-	1.4	2.0	-	
		Ant	1710~1755	-	1.5	2.0	-	
	Input power		1710~1755	+29	dBm,Ta=+5 50kh,CW	50°C	dBm	Support LTE
	Absolute atte	enuation	1559~1585.42	38	42	-	dB	
			2110~2155	45	50	-	dB	
			2400~2500	35	43	-	dB	
			3420~3510	30	38	-	dB	
			5130~5265	15	28	-	dB	
Ant	Insertion loss	3	2110~2155	-	1.8	2.2	dB (*1)	
to	Ripple	1	2110~2155	-	0.5	1.0	dB	
Rx	VSWR	Ant	2110~2155	-	1.5	2.0	-	
		Rx	2110 2133	-	1.6	2.0	-	
	Absolute atte	enuation	1710~1755	45	56	-	dB	
			2400~2500	35	44	-	dB	
			3820~3910	40	49	-	dB	
Tx to	Isolation		1710~1755	55	60	-	dB	
Rx			2110~2155	50	56	-	dB	
Termina	ting Impedano	e	Tx port		50 // 9.1nH		Ω	
		Rx port		50		Ω		
Ant port		Ant port		50 // 3.3nH	1	Ω		
Operatin	ıg Temperatur	е			-20 to +85		°C	
Maximui	m DC in all po	rts		-	-	3	VDC	
DC impe	edance to grou	ınd			100		МΩ	Device only
Device s	size (L typ.x W	typ.x H m	ax.)	1	.8 x 1.4 x 0	.5	mm	

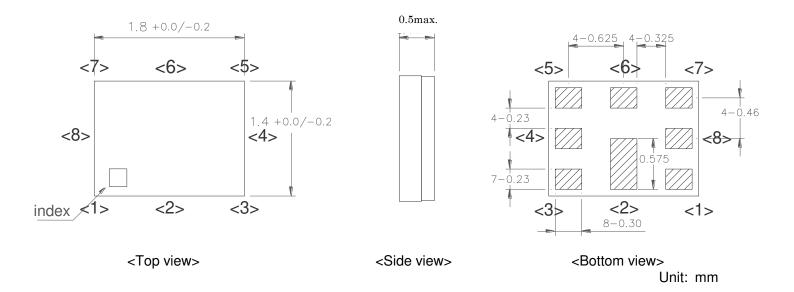
(*1) Specification of insertion loss excludes loss that comes from the test board





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Dimensions



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

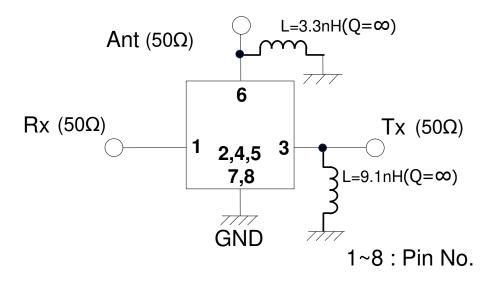
Figure 1. Dimensions and Pin assignment





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Evaluation Circuit



Recommended foot print pattern

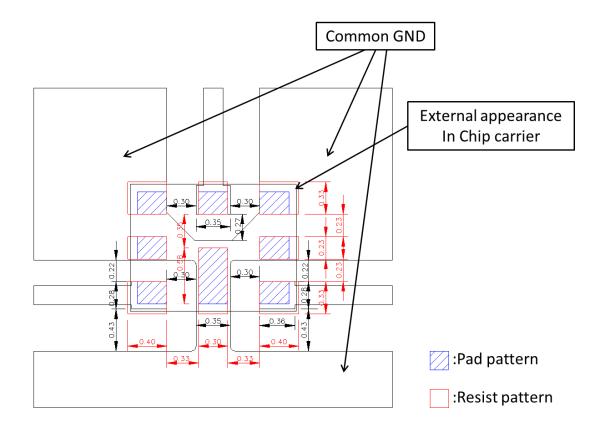


Figure 2. Recommended foot print pattern

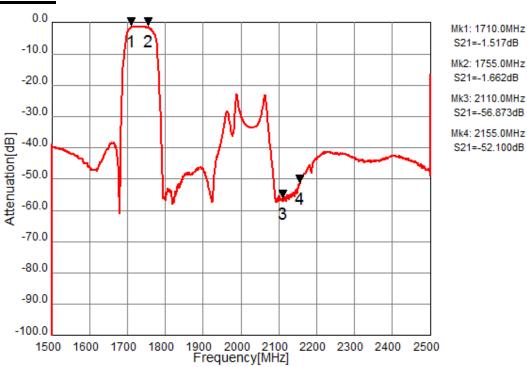






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Tx to Ant



Ant to Rx

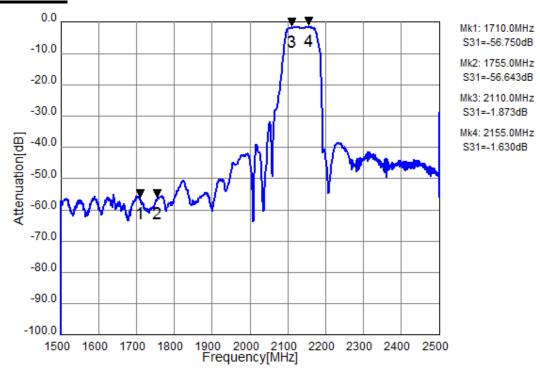


Figure 3-1. Electrical Characteristics

These data exclude loss that comes from the test board.

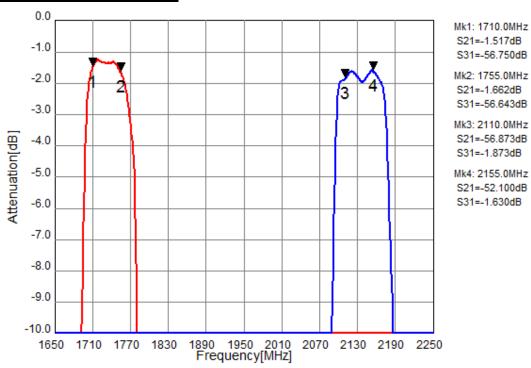






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Tx to Ant, Ant to Rx



Tx to Rx Isolation

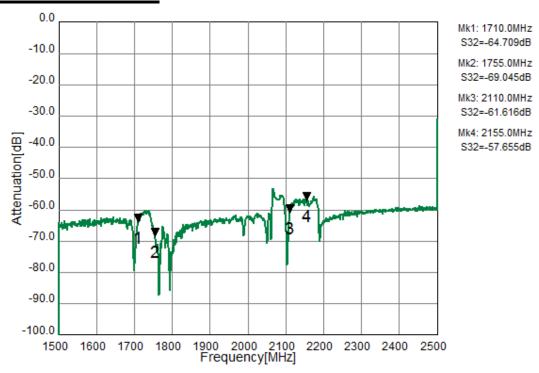


Figure 3-2. Electrical Characteristics

These data exclude loss that comes from the test board.







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Tx Port

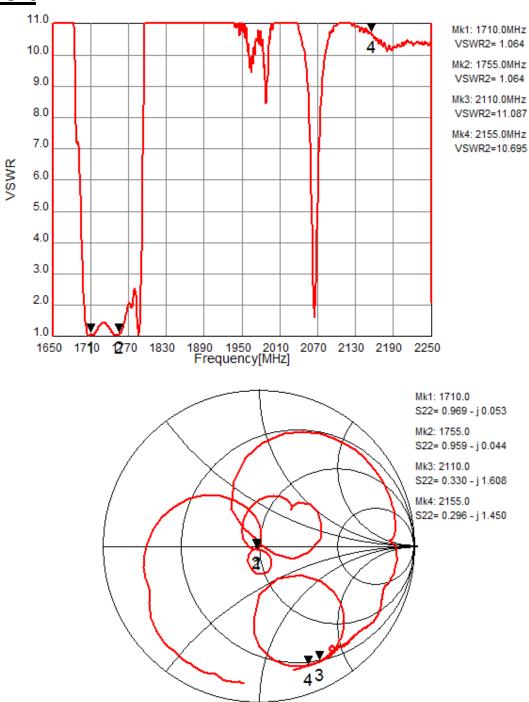


Figure 3-3. Electrical Characteristics







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Rx Port

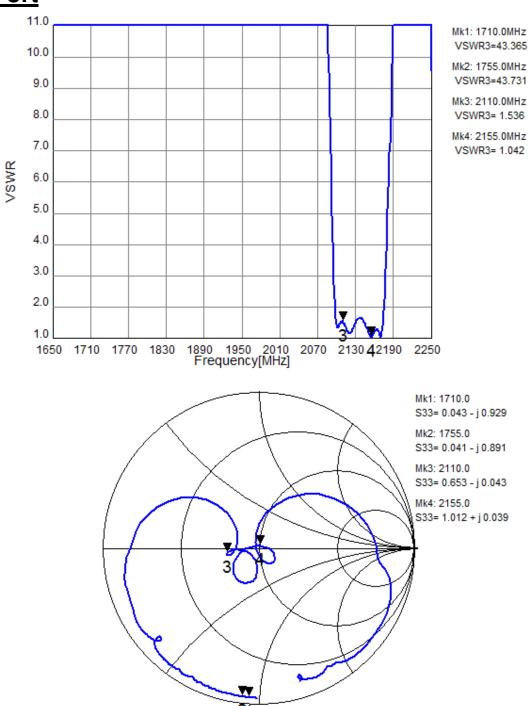


Figure 3-4. Electrical Characteristics







Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd		
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Ant Port

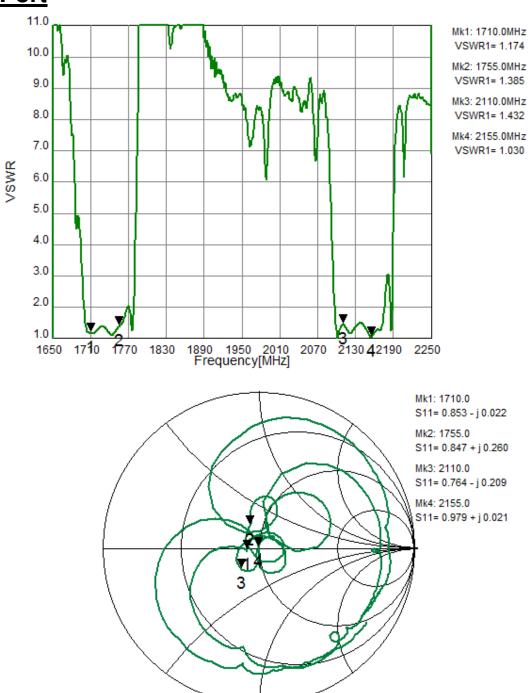


Figure 3-5. Electrical Characteristics



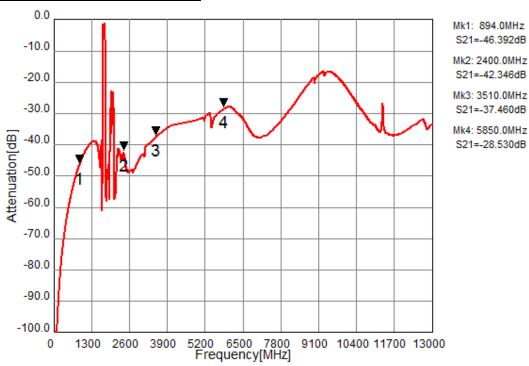


Pb-free	IVIOLI
* Pb Free Part	

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Tx to Ant (Wide span)



Ant to Rx (Wide span)

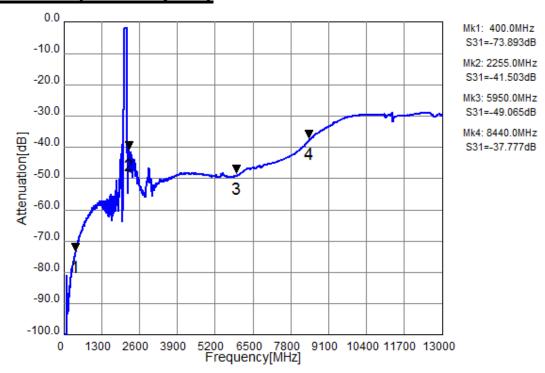


Figure 3-6. Electrical Characteristics

Ordering Code







Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.		
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Ordering Code	Packing	Reel size	Status
D6DA2G132K2D9- Z	Tape & Reel	3,000 pcs.	MP
D6DA2G132K2D9-ZA	Tape & Reel	less than 3,000 pcs.	MP
D6DA2G132K2D9-Y	Tape & Reel	15,000 pcs.	MP
D6DA2G132K2D9-YA	Tape & Reel	less than 15,000 pcs.	MP
D6DA2G132K2D9-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