imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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!



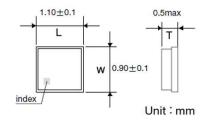
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Spec Sheet

FBAR/SAW Devices (FBAR Type) F6HG2G441EG65



Features

- Item Summary
- FBAR, 1.1x0.9x0.5mm
- Lifecycle Stage
- Mass Production
- Standard packaging quantity (minimum)
- Taping Embossed 5000 , 15000pcs

Products characteristics table

System	W-LAN
Туре	FBAR
Function	Other
band	Other
Insertion Loss (typ)	1.3 dB
Operating Temp. Range	-30 to +85 °C
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

External Dimensions

Dimension L	1.1 ±0.10 mm
Dimension W	0.9 ±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. 2017.04.30





Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	W-LAN	DATE	May 19, 2016	
Part Number	F6HG2G441EG65	Version 2.0bA	Final	

Table 1 Electrical Specification

	tom	Condition	S	pecificatio	on	Linit	Remarks
I	tem	(MHz)	Min.	Тур.	Max.	Unit	
		2402.5 ~ 2421.5	-	1.4	2.0	dB	
		2407.5 ~ 2426.5	-	1.3	1.9	dB	
	on loss ed(*1)(*2)	2412.5 ~ 2471.5	-	1.3	1.8	dB	
integrate	50(1)(2)	2457.5 ~ 2476.5	-	1.3	2.0	dB	
		2462.5 ~ 2481.5	-	1.5	2.4	dB	
		2402.5 ~ 2421.5	-	0.6	1.5	dB	
		2407.5 ~ 2426.5	-	0.5	1.4	dB	
Amplitude	e Ripple <mark>(*2)</mark>	2412.5 ~ 2471.5	-	0.5	1.3	dB	
		2457.5 ~ 2476.5	-	0.5	1.5	dB	
		2462.5 ~ 2481.5	-	0.7	1.9	dB	
	Input	2402.5 ~ 2481.5	-	1.5	2.0	-	
VSWR	Output	2402.5 ~ 2481.5	-	1.5	2.0	-	
Input	Power	2402.5 ~ 2481.5		28dBm Ta 10000l			
		800 - 2300	35	39	-	dB	
		2300 - 2370	48	51	-	dB	(*3)
			23		-	dB	-30~-10°C (*3)
		2500 - 2505	30	61	-	dB	-10~+25°C (*3)
Absolute /	Attenuation		42		-	dB	+25~+85°C (*3)
		2505 - 2570	47	52	-	dB	(*3)
		2570 - 2620	42	48	-	dB	(*3)
		2620 - 2690	42	45	-	dB	(*3)
		2690 - 7500	30	39	-	dB	
Term	inating	Input port	50//	6.8nH(Q=	=∞)	Ω	
Impe	dance	Output port	50//	6.8nH(Q=	<u>-</u> ∞)	Ω	
		emperature		-30 to +85	-	°C	
	Maximum D		-	-	5	VDC	Device only
	Devic (L typ.x W ty		1.	1 x 0.9 x ().5	mm	

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

(*2) The integrated loss over any 19MHz channel within the band.

(*3) The integrated loss over any 5MHz channel within the band.

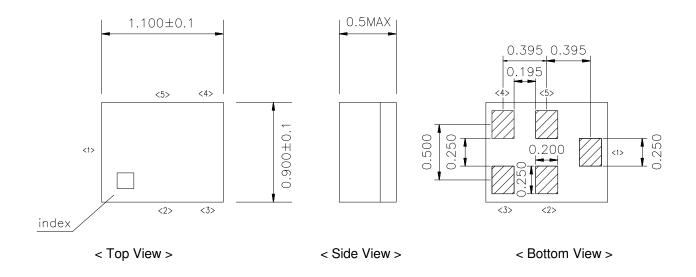






Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
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Dimensions



Unit : mm

Pin Configuration

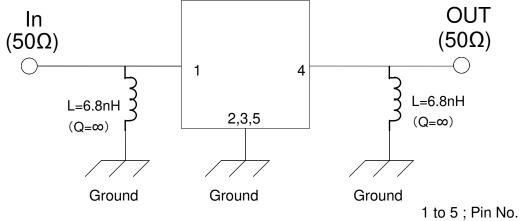
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

Figure 1. Dimensions and Pin assignment



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Evaluation Circuit



Recommended foot print pattern

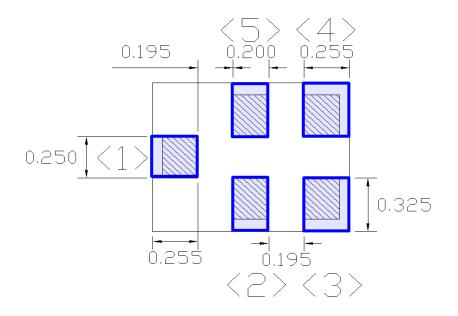


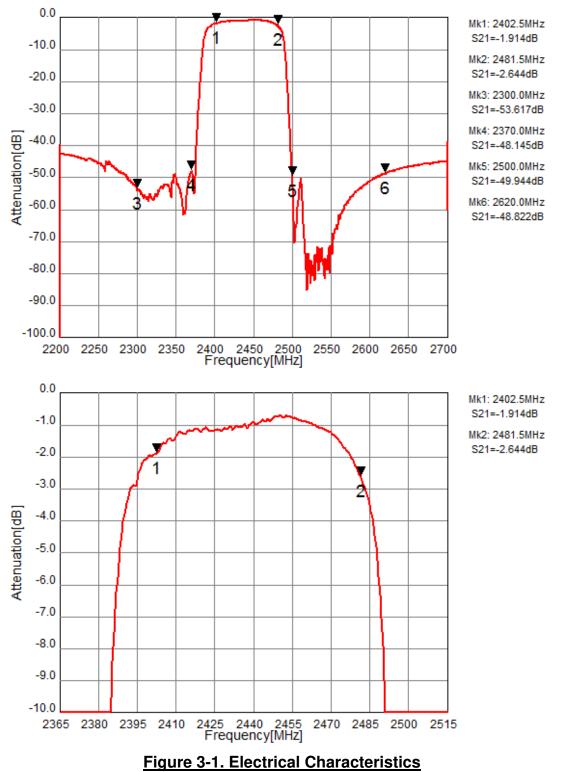
Figure 2. Recommended foot print pattern





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Passband



These data excludes loss that comes from the test board.







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Input Port

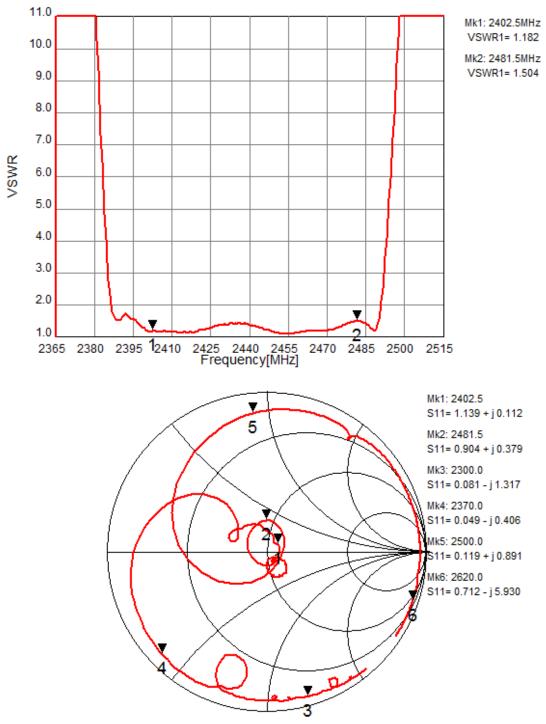


Figure 3-2. Electrical Characteristics





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

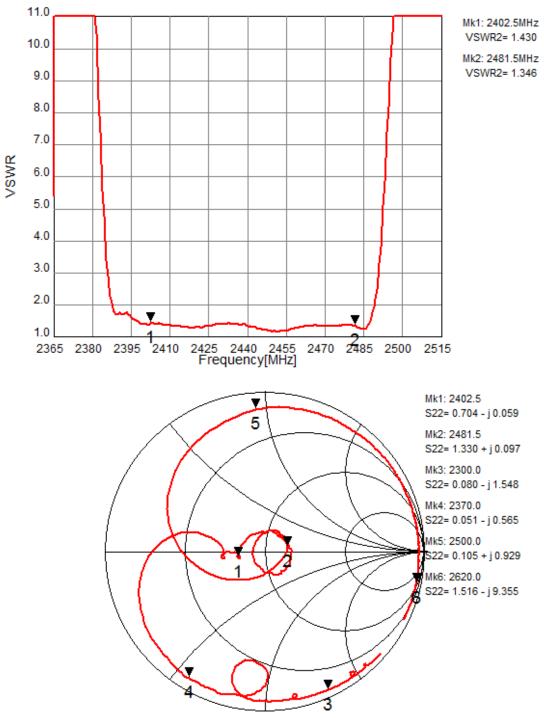


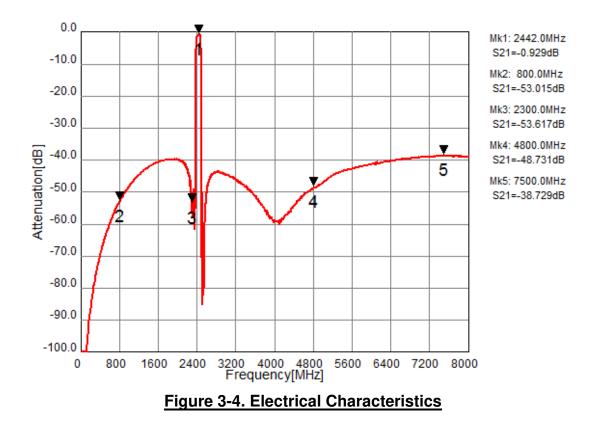
Figure 3-3. Electrical Characteristics





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Wideband









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Ordering Code

Ordering Code	Packing	Reel size	Status
F6HG2G441EG65-J	Tape & Reel	5,000 pcs.	MP
F6HG2G441EG65-JA	Tape & Reel	less than 5000 pcs.	MP
F6HG2G441EG65-Y	Tape & Reel	15,000 pcs.	MP
F6HG2G441EG65-YA	Tape & Reel	less than 15,000 pcs.	MP
F6HG2G441EG65-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.