



*Pb Free part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd	
System	Band40 Rx (50/150ohm Balance)	DATE	July 22, 2011
Part Number	F6KB2G350B4HT	Version 2.1b	Final

Table 1 Electrical Specification

Passband :2300 ~ 2400 MHz						
Item	Condition	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	2300 – 2400MHz	-	2.7	3.5	dB	(*1)
Ripple	2300 – 2400MHz	-	1.2	2.0	dB	
VSWR	2300 – 2400MHz	-	1.7	2.2	dB	
Amplitude Balance (S21 / S31)	2300 – 2400MHz	-1.5	-0.6/ +0.9	+1.5	dB	
Phase Balance ((Phase(S21) - Phase(S31))+180)	2300 – 2400MHz	-15	-4/+10	+15	deg	
Absolute attenuation	50 – 2000MHz	35	43	-	dB	
	2000 – 2215MHz	35	40	-	dB	
	2215 – 2240MHz	20	42	-	dB	
	2460 – 2485MHz	20	37	-	dB	
	2485 – 3000MHz	33	37	-	dB	
	3000 – 4000MHz	25	42	-	dB	
	4000 – 6000MHz	20	52	-	dB	
Input Impedance	Unbalanced	50//4.7nH			ohm	
Output Impedance	Balanced	150//12nH			ohm	
Device size		1.4typ. x 1.0typ. x 0.5max.			mm	
Operating Temperature		-30 ~ +85			°C	

(*1) Specification of insertion loss includes loss that comes from the test board.(0.15dB)

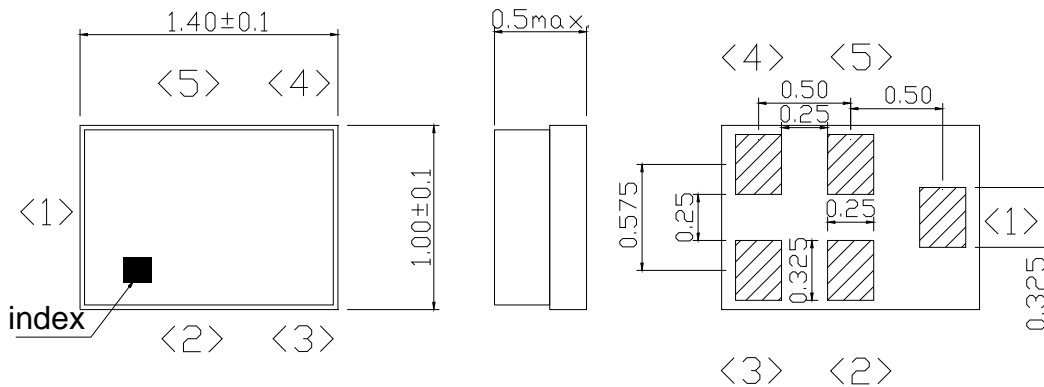


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Dimension

Device size: 1.4typ. x 1.0typ. x 0.5max.

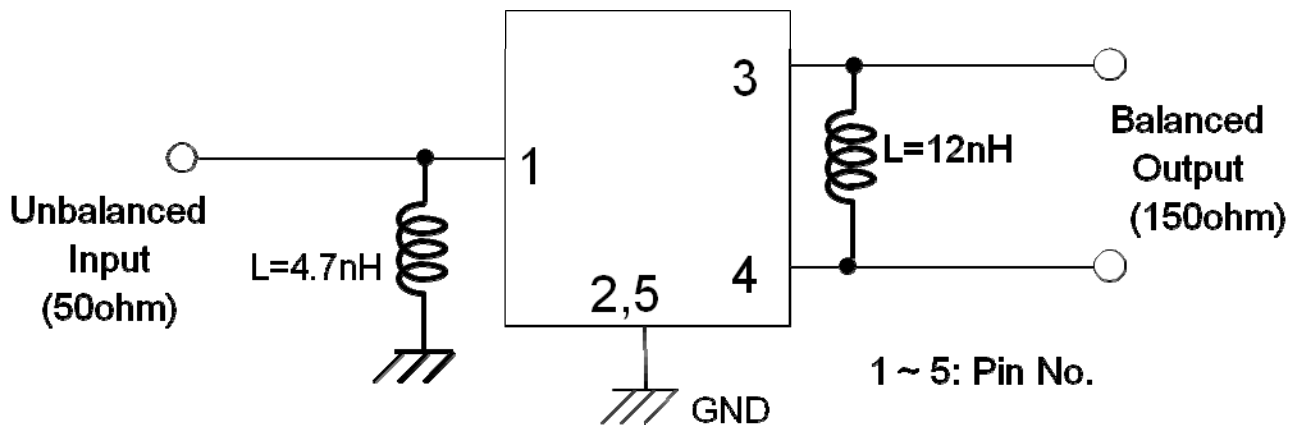


Unit: mm

Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

Evaluation Circuit





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Fig.1 Pass-band Characteristics

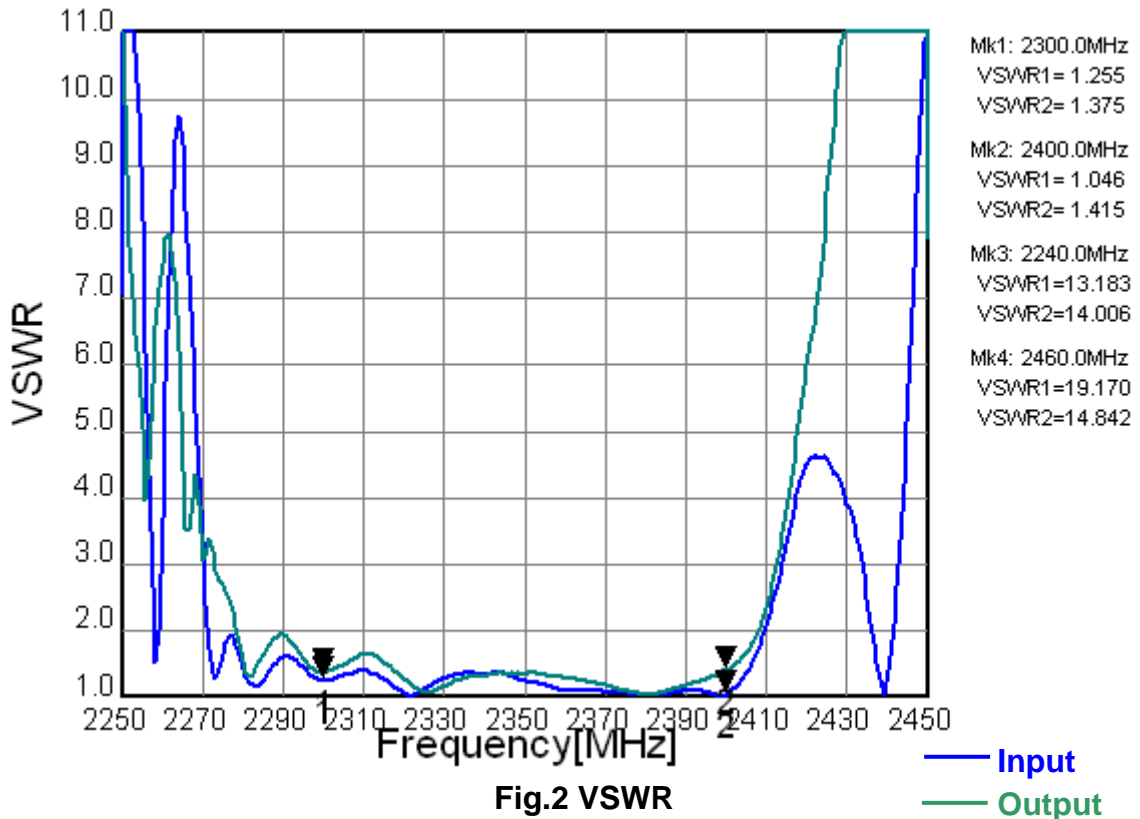


Fig.2 VSWR



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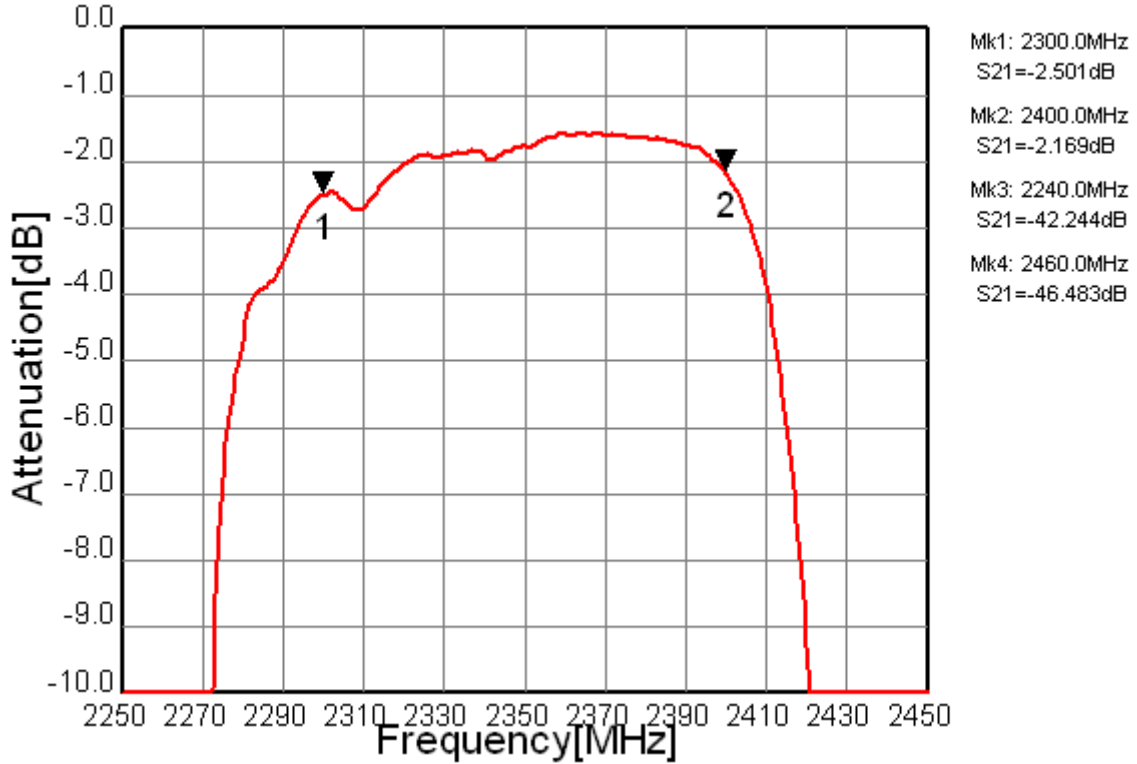


Fig.3 In-band Characteristics

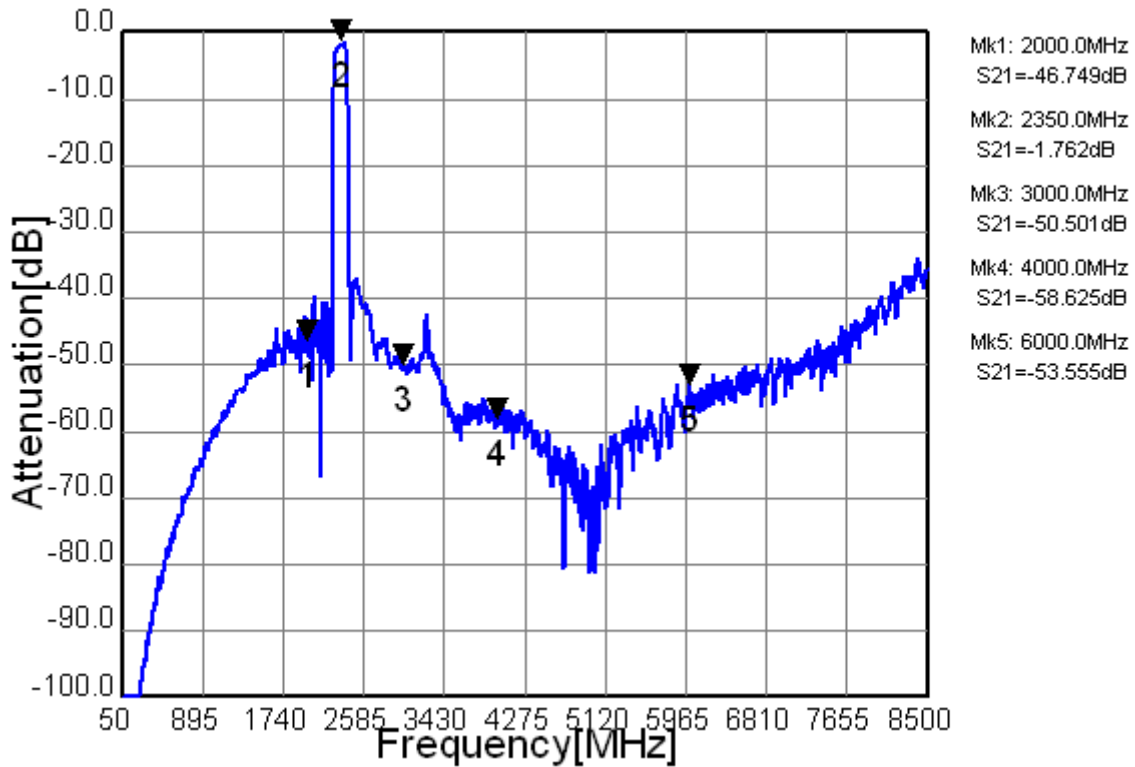


Fig.4 Wide-band Characteristics



RoHS MSL1

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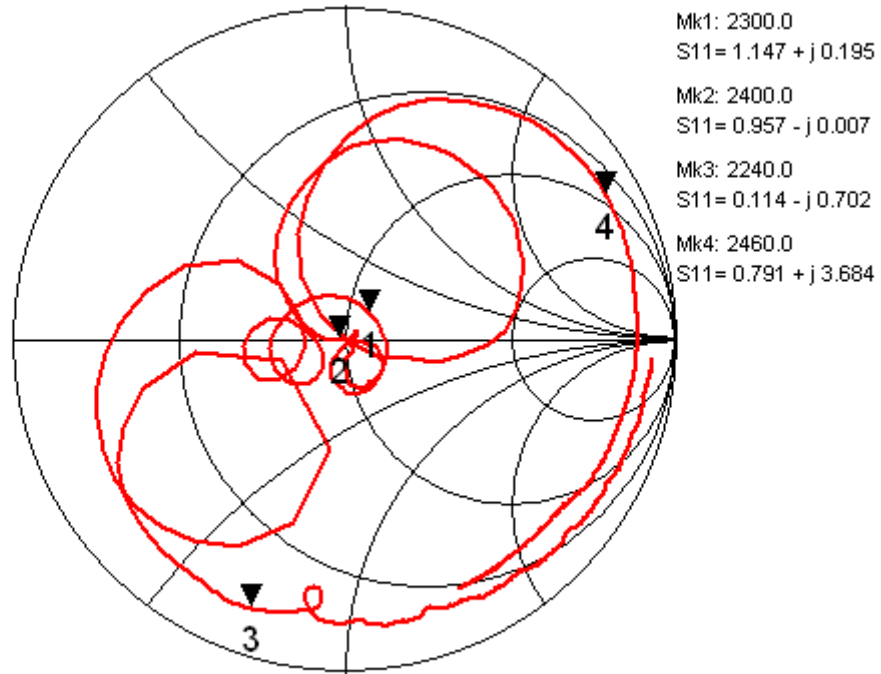


Fig.5 Input impedance

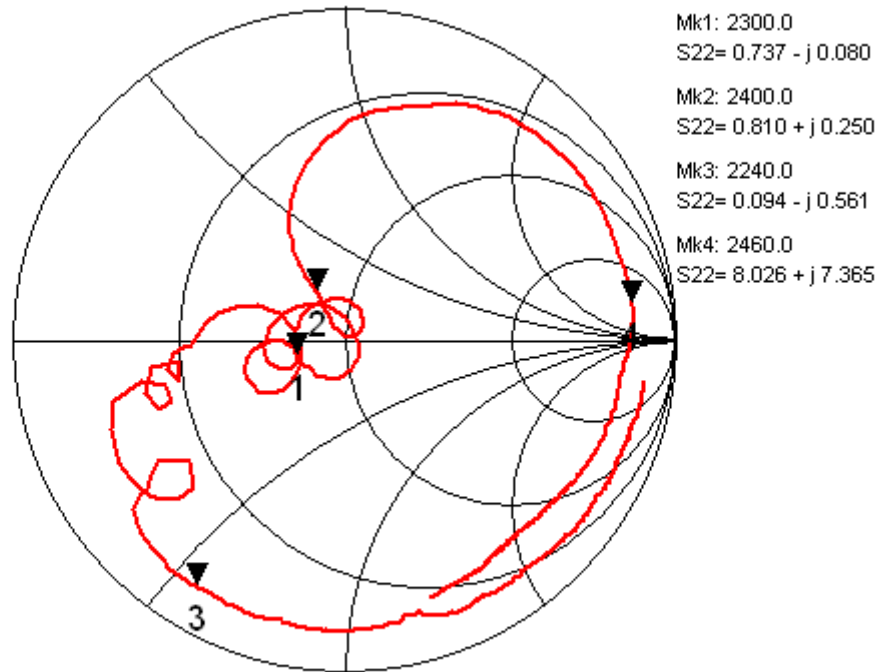


Fig.6 Output impedance



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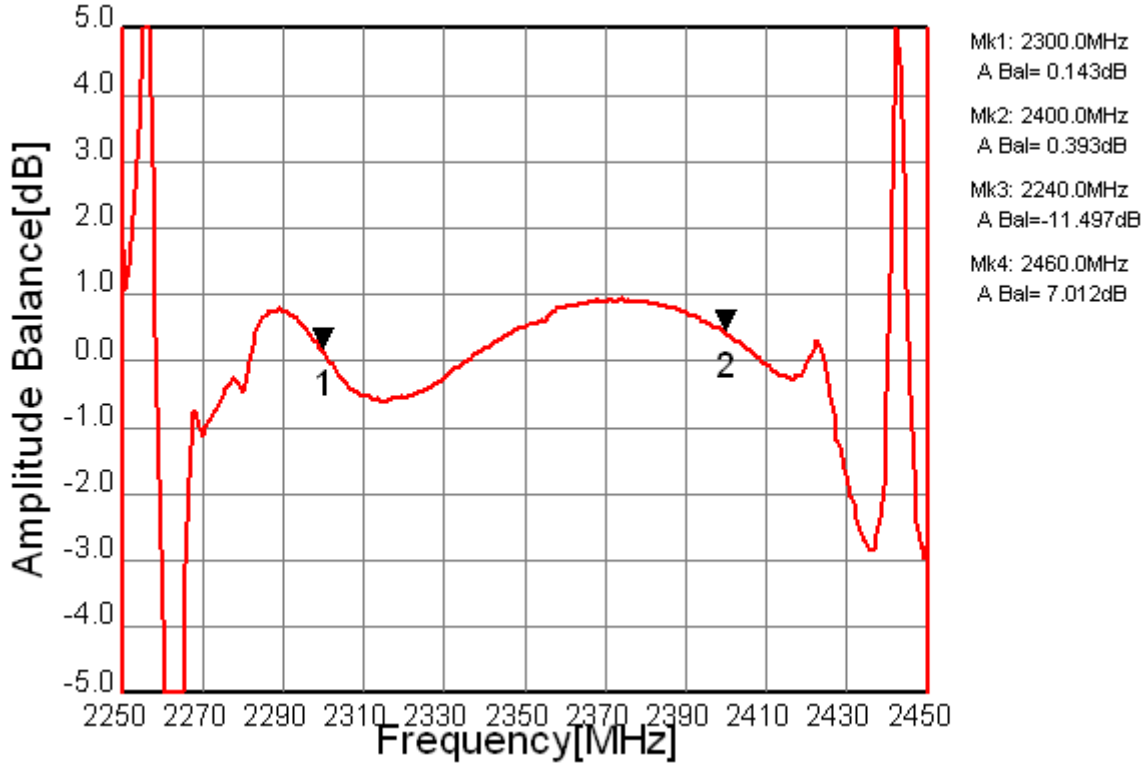


Fig.7 Amplitude Balance

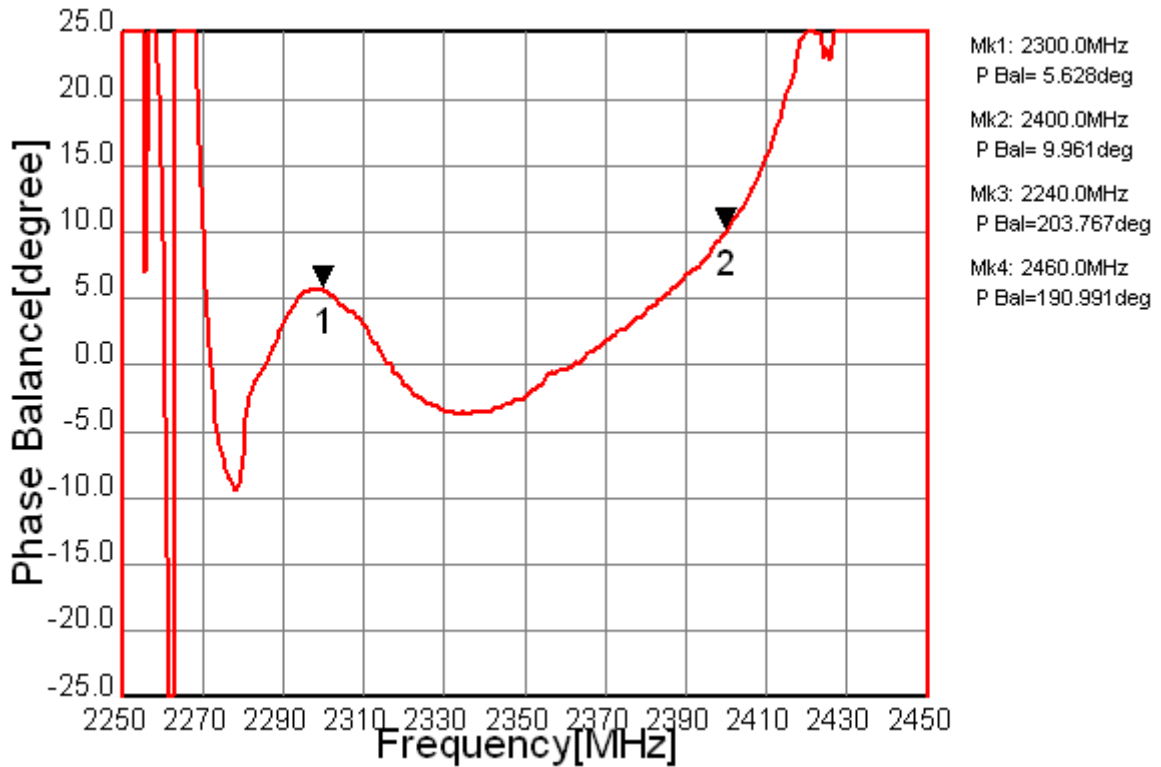


Fig.8 Phase Balance



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6KB2G350B4HT-Z	Tape & Reel	3,000pcs.	MP
F6KB2G350B4HT-ZA	Tape & Reel	less than 3,000 pcs.	MP
F6KB2G350B4HT-Y	Tape & Reel	15,000pcs	MP
F6KB2G350B4HT-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.