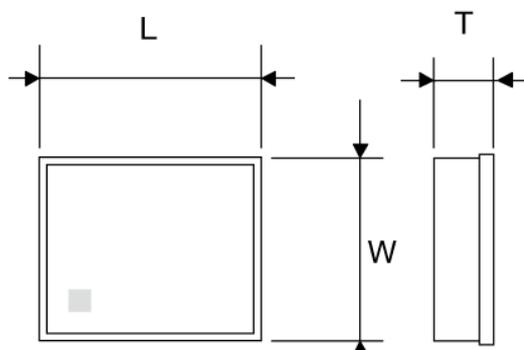


SAW Filter

F5KY806M0B4NE



■ Features

- Item Summary
LTE, 504
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 3000 , 15000pcs

■ Products characteristics table

Temperature Range	-20 to +85°C
Band(3GPP)	B20
Use	LTE
Transmitting / Receiving	Rx Filter
Insertion Loss	2.5dB
Attenuation	45dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	1.4mm +0.1:-0.1
W	1.0mm +0.1:-0.1
T	0.5mm max

2015.06.03

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.



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 20 Rx (50/100ohm)	DATE	Aug. 8, 2012
Part Number	F5KY806M0B4NE	Version 4.0d	Final

Table 1.Electrical specifications

Passband :791 ~ 821 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	791~821	-	2.5	3.5	dB	(*1)
Ripple	791~821	-	1.1	2.2	dB	
VSWR(Input)	791~821	-	1.8	2.3	-	
VSWR(Output)	791~821	-	1.7	2.3	-	
Absolute attenuation	0.2~760	45	68	-	dB	
	760~770	20	57	-	dB	
	832~862	40	45	-	dB	
	873~903	40	48	-	dB	
	1000~2000	35	58	-	dB	
	2000~3000	40	63	-	dB	
	3000~4000	35	57	-	dB	
	4000~5000	30	53	-	dB	
5000~6000	25	48	-	dB		
Amplitude balance (S ₂₁ /S ₃₁)	791~821	-1	-0.3/+0.2	1	dB	
Phase balance (∠S ₂₁ -∠S ₃₁ +180)	791~821	-10	-4/+1	+10	deg.	
Input Impedance		50			ohm	Unbalanced
Output Impedance		100			ohm	Balanced
Operating temperature		-20~+85			°C	

(*1) Specification of insertion loss includes loss that comes from the test board.(0.05dB)



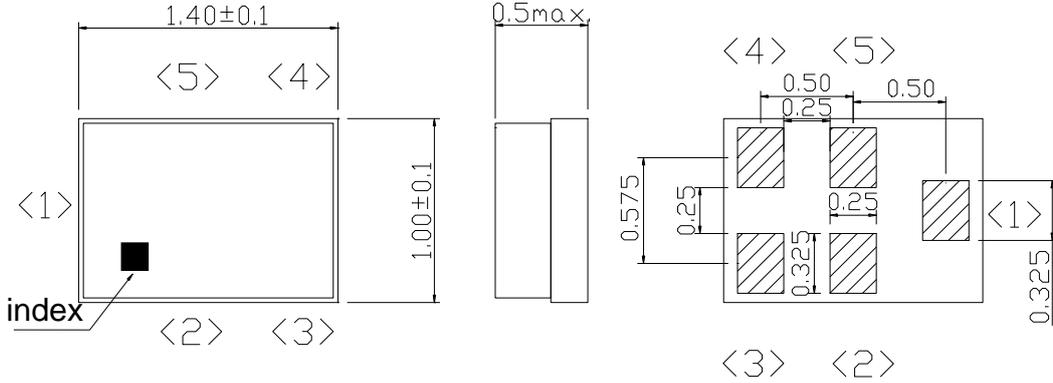
MSL1

* Pb Free Part

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System	Band 20 Rx (50/100ohm)	DATE	Aug. 8, 2012
Part Number	F5KY806M0B4NE	Version 4.0d	Final

Dimensions

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

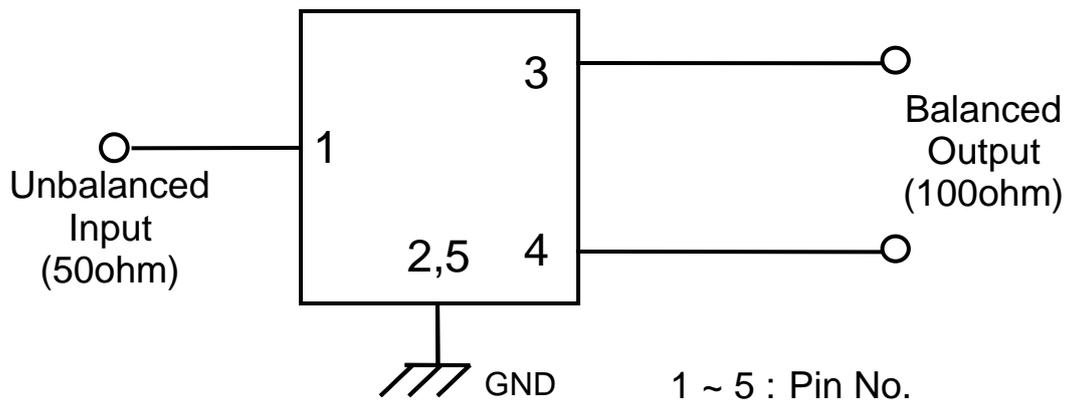


Unit : mm

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





MSL1

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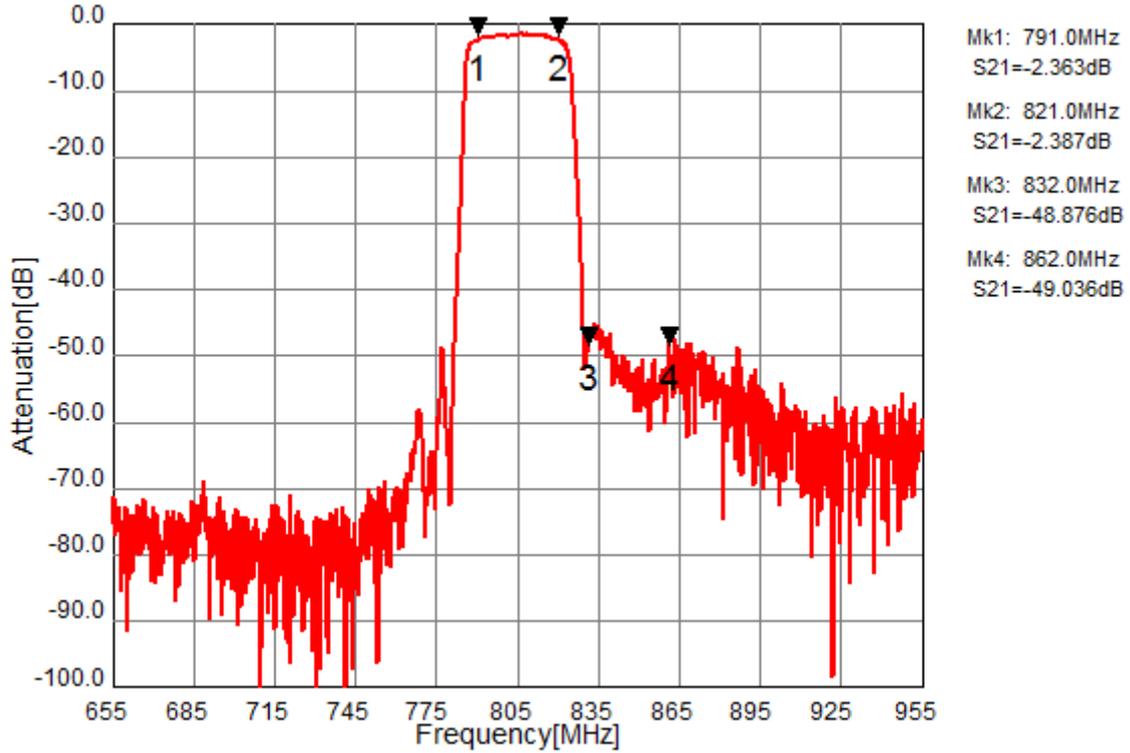


Fig.1 Pass-band Characteristics

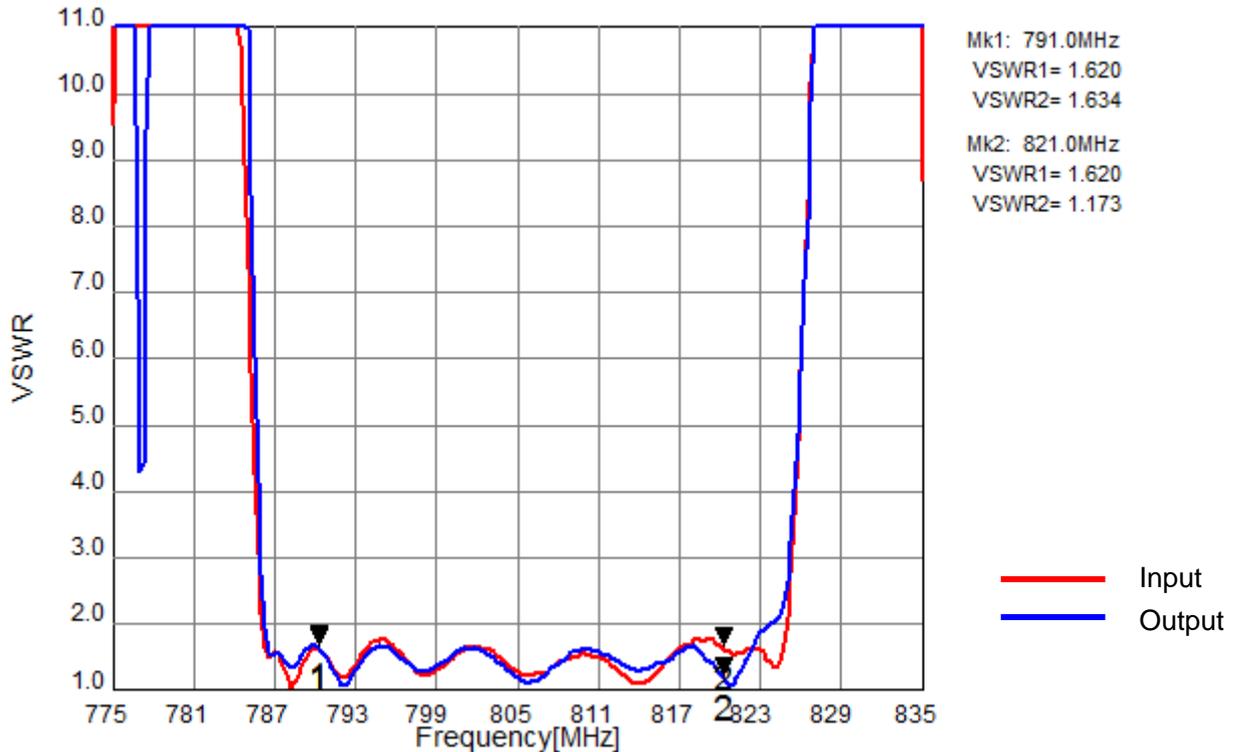


Fig.2 VSWR



MSL1

* Pb Free Part

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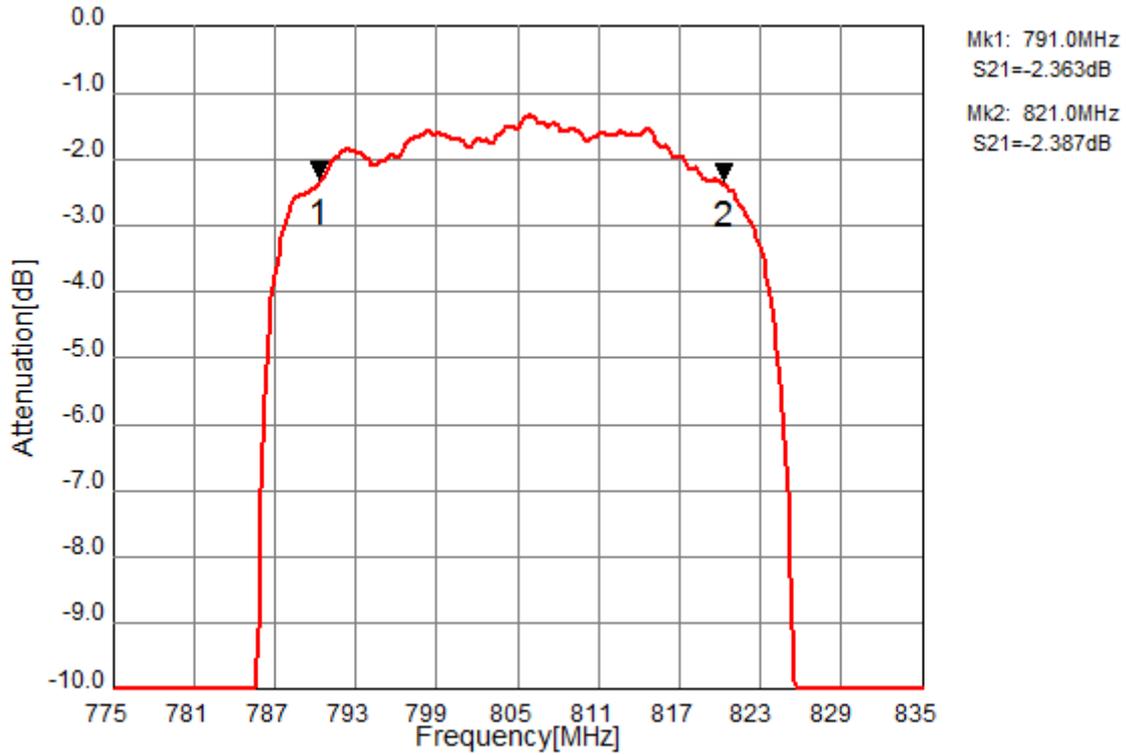


Fig.3 In-band Characteristics

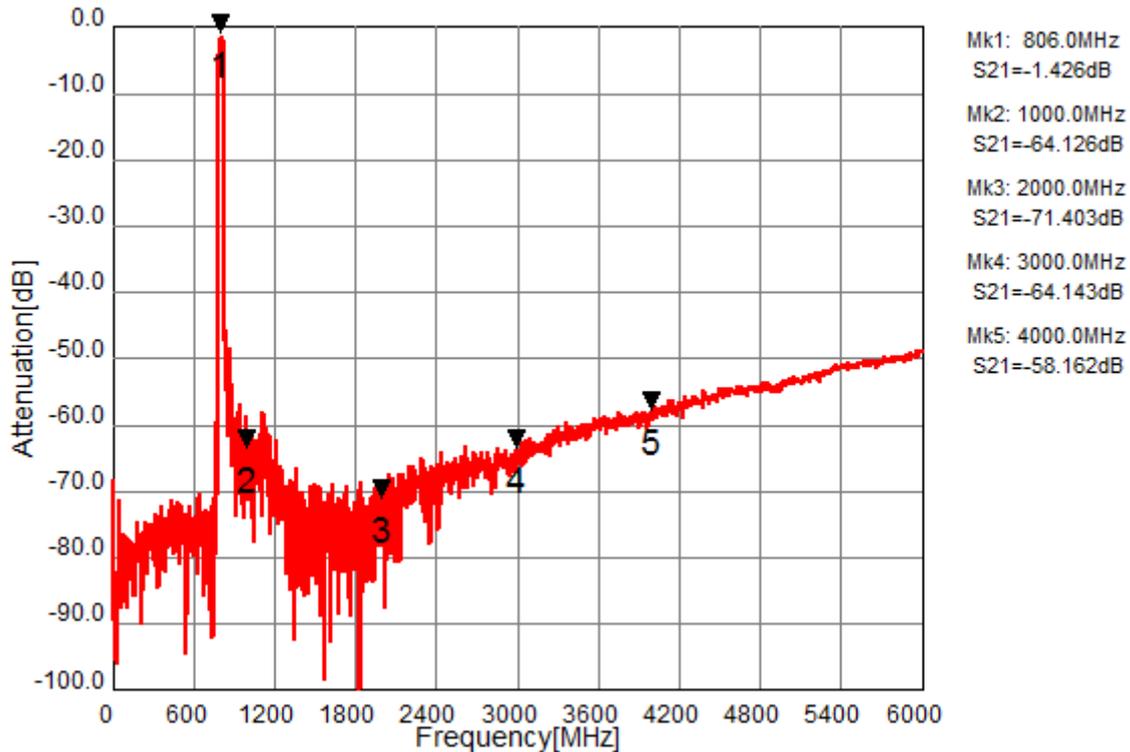


Fig.4 Wide-band Characteristic



MSL1

* Pb Free Part

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Part Number	F5KY806M0B4NE	Version 4.0d	Final

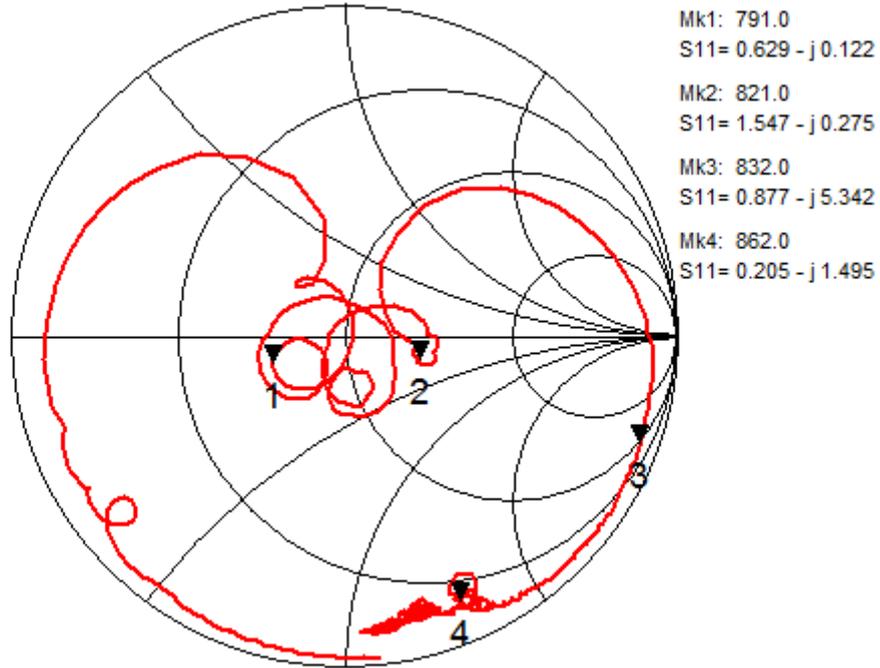


Fig.5 Impedance (Input)

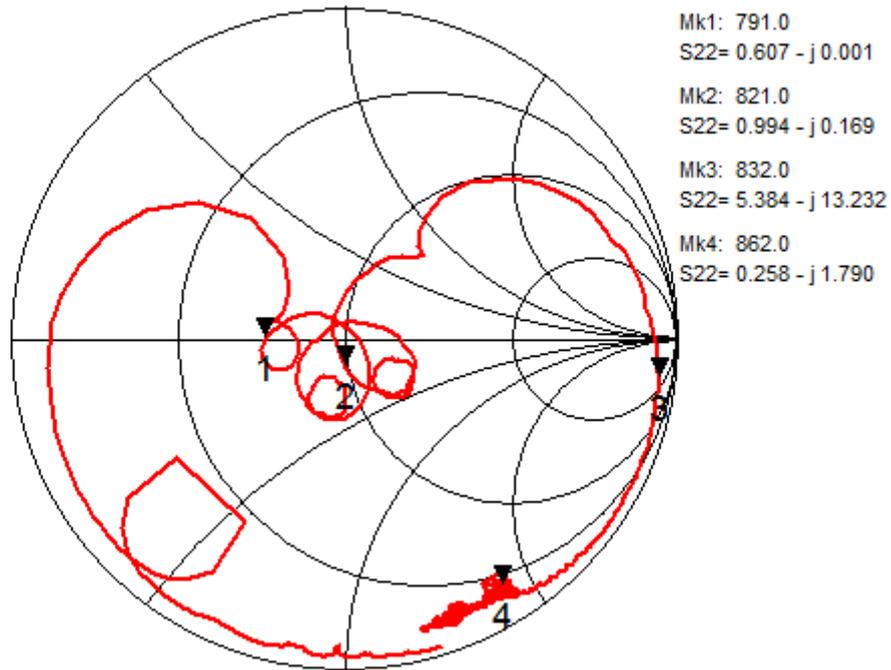


Fig.6 Impedance (Output)



MSL1

* Pb Free Part

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Part Number	F5KY806M0B4NE	Version 4.0d	Final

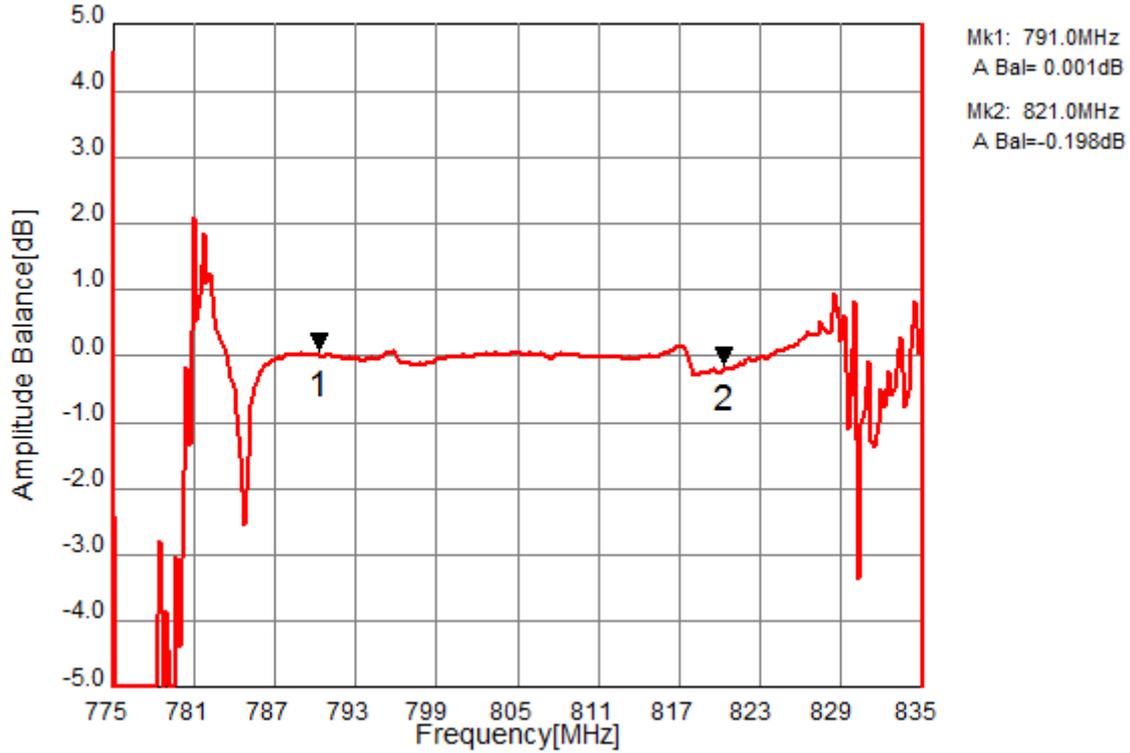


Fig.7 Amplitude balance

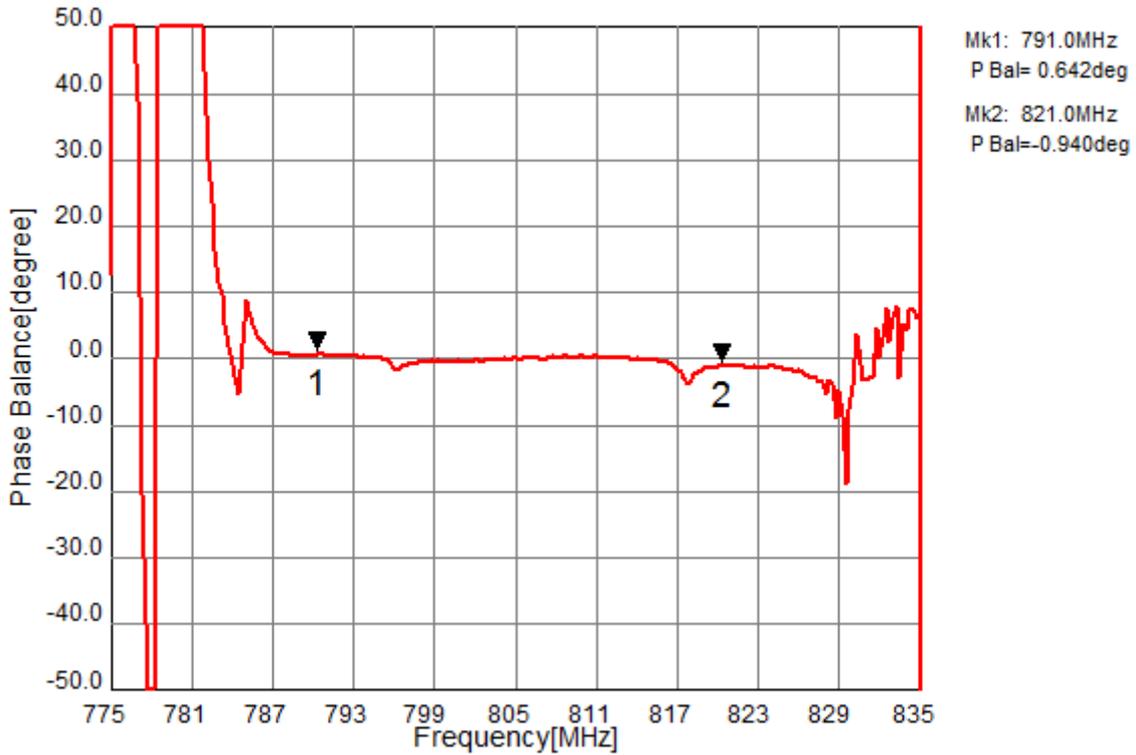


Fig.8 Phase balance



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 20 Rx (50/100ohm)	DATE	Aug. 8, 2012
Part Number	F5KY806M0B4NE	Version 4.0d	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
F5KY806M0B4NE-Z	Tape & Reel	3,000pcs.	MP
F5KY806M0B4NE-ZA	Tape & Reel	less than 3,000 pcs.	MP
F5KY806M0B4NE-Y	Tape & Reel	15,000pcs	MP
F5KY806M0B4NE-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.