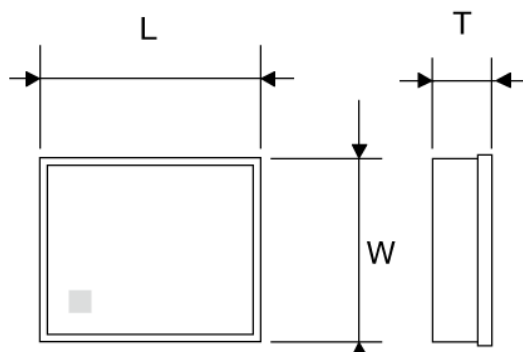


## SAW Filter

## F5QG740M0P2KH



## ■ Features

- Item Summary  
LTE, 403
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 5000 , 15000pcs

## ■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B17
Use	LTE
Transmitting / Receiving	Rx Filter
Insertion Loss	1.4dB
Attenuation	65dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

## ■ External Dimensions

L	1.1mm +0.1:-0.1
W	0.9mm +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.



\* Pb Free Part

Customer Name	<b>Standard Specification</b>	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 17 Rx( 50/100ohm )	DATE	November. 6, 2012
Part Number	F5QG740M0P2KH	Version 1.1a	FINAL

**Table 1. Electrical specifications**

Passband: 734 ~ 746 MHz							
Item		Condition	Specification			Unit	Remarks
			Min.	Typ.	Max.		
Insertion Loss		734-746MHz	-	1.4	2.0	dB	(*1)
Ripple		734-746MHz	-	0.4	1.0	dB	
VSWR	Input (S11)	734-746MHz	-	1.5	2.0	-	
	Output (S22)		-	1.5	2.0	-	
Amplitude balance		734-746MHz	-1.0	-0.2/+0.2	+1.0	dB	
Phase balance		734-746MHz	-10	-1.0/+1.3	+10	degree	
Attenuation		DC-686MHz	55	66	-	dB	
		704-716MHz	52	65	-	dB	
		716-722MHz	21	46	-	dB	
		1400-2300MHz	45	54	-	dB	
		2300-3000MHz	40	52	-	dB	
		3000-4000MHz	35	49	-	dB	
		4000-5000MHz	30	47	-	dB	
		5000-6000MHz	25	46	-	dB	
Terminating Impedance		Input	50			ohm	Single-ended
		Output	100			ohm	Differential
Operating Temperature			-30 to +85			°C	

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

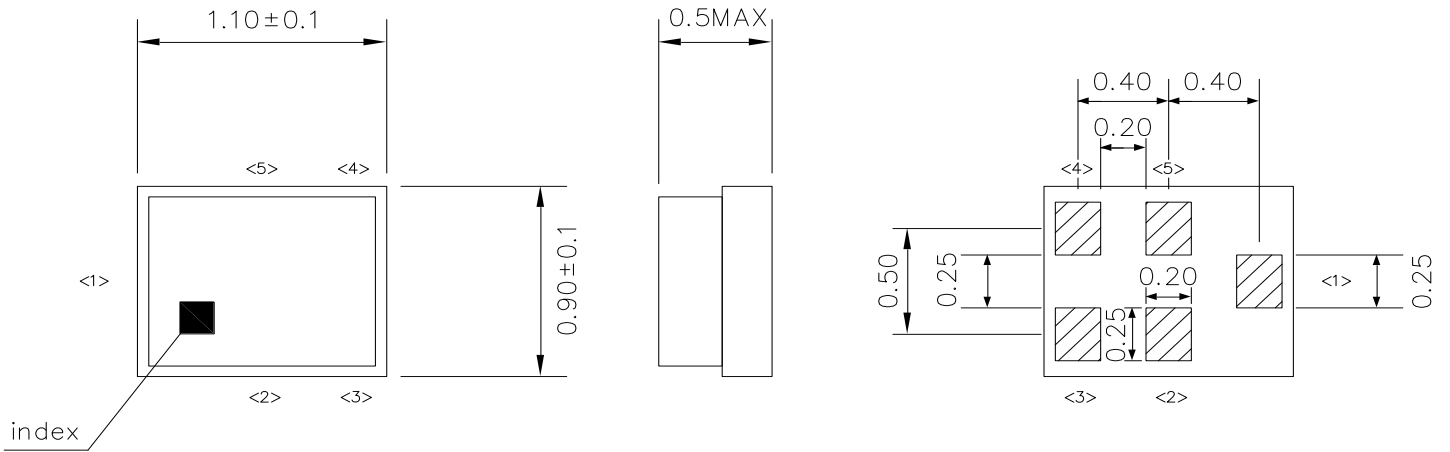


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Part Number	F5QG740M0P2KH	Version 1.1a	FINAL

### Dimensions

Device size: 1.1typ. x 0.9typ. x 0.5max

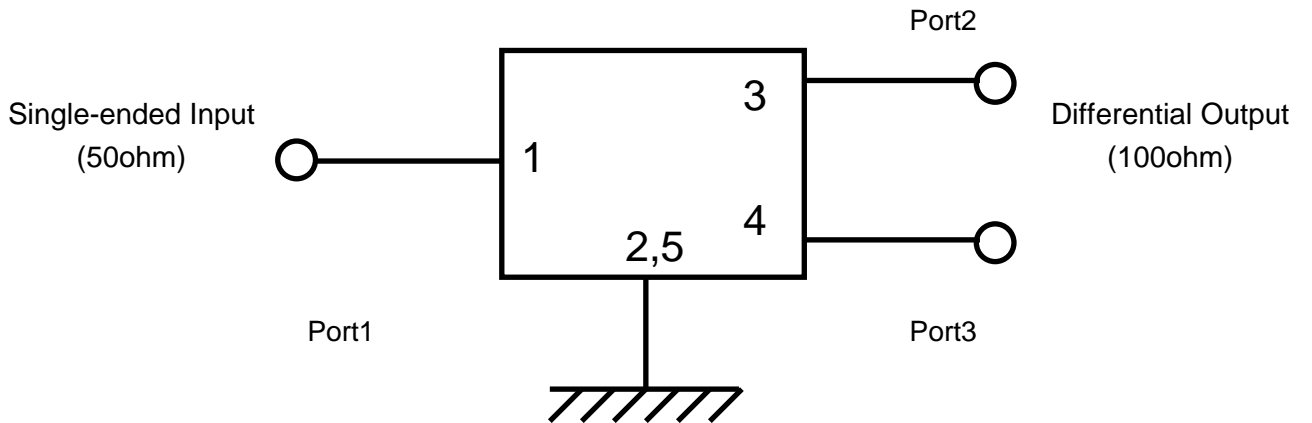


Unit: mm

### Pin Configuration

Pin No.	Symbol	Function
1	IN	Single-ended pin
2	GND	Ground
3	OUT	Differential pin
4	OUT	Differential pin
5	GND	Ground

### Evaluation Condition



1 ~ 5 : Pin No.



\* Pb Free Part

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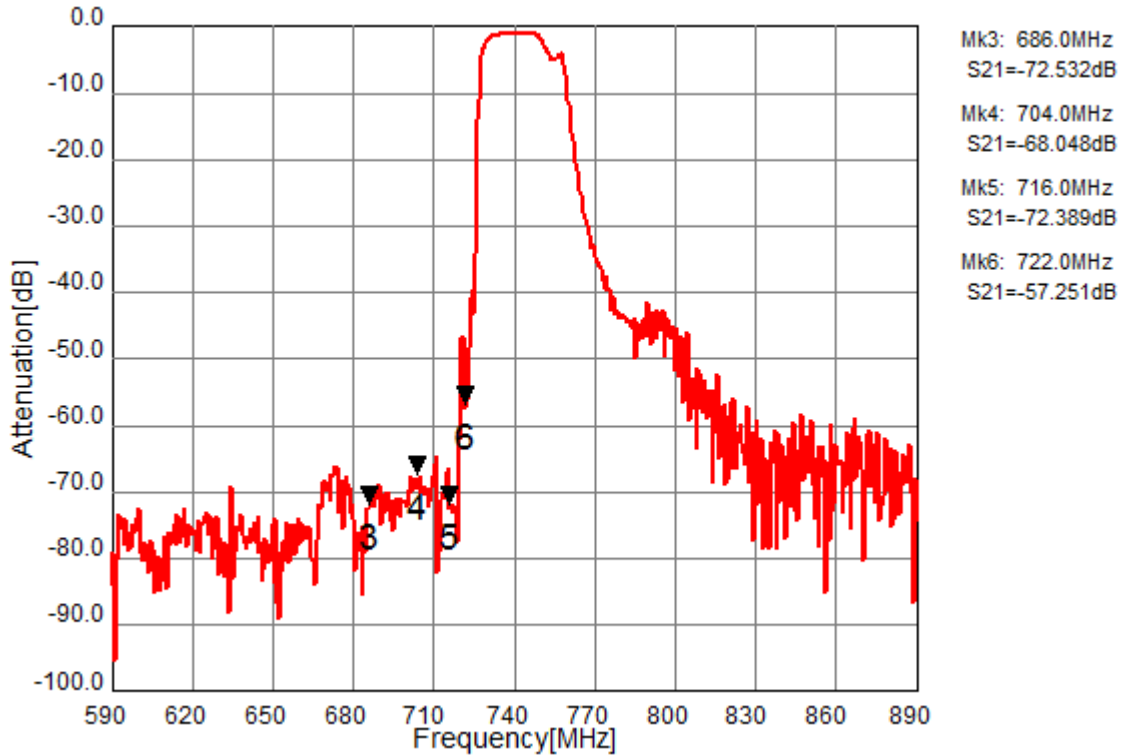


Fig.1 Pass-band Characteristic

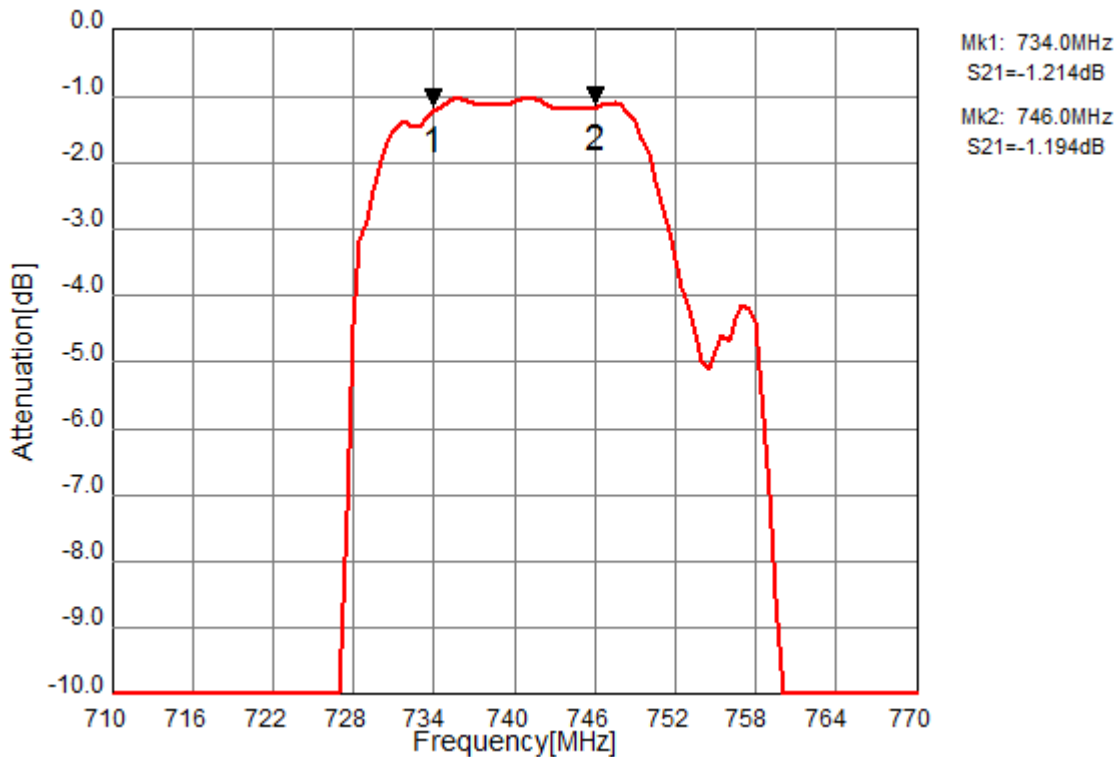


Fig.2 In-band Characteristic



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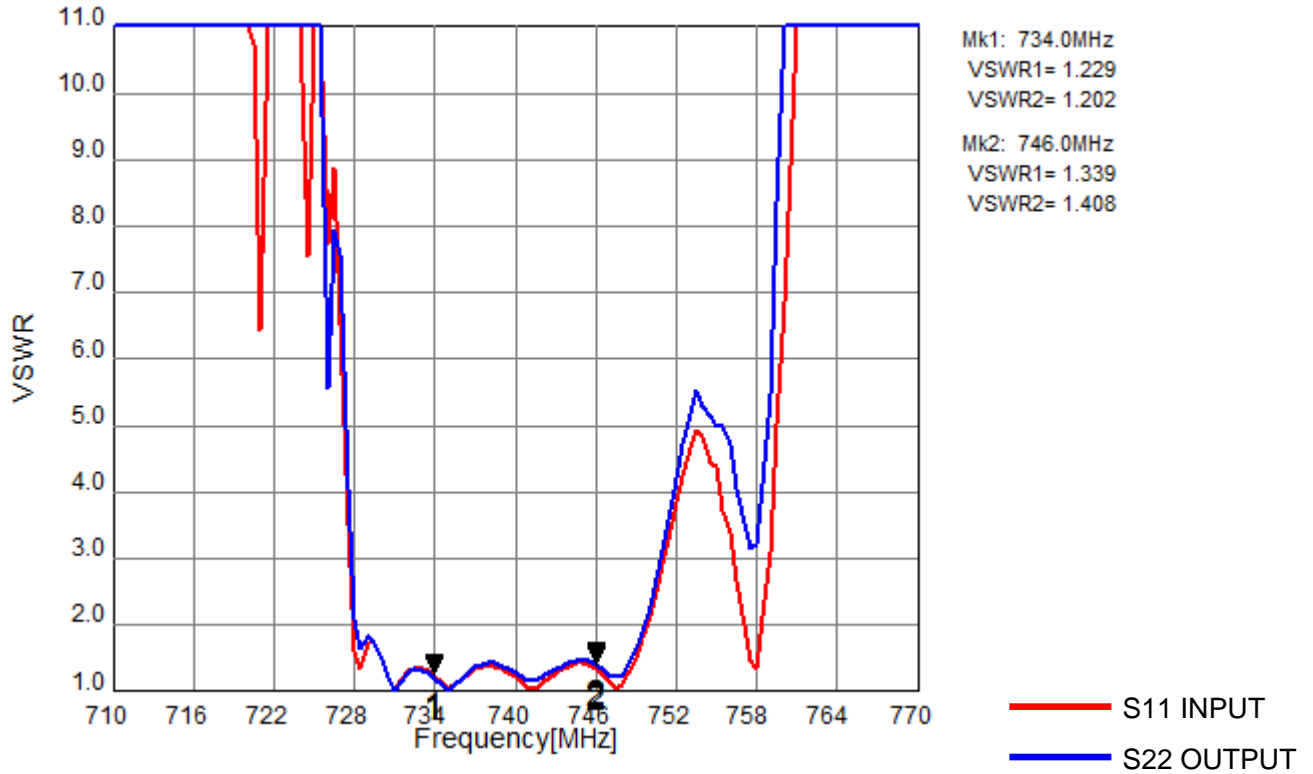


Fig.3 VSWR

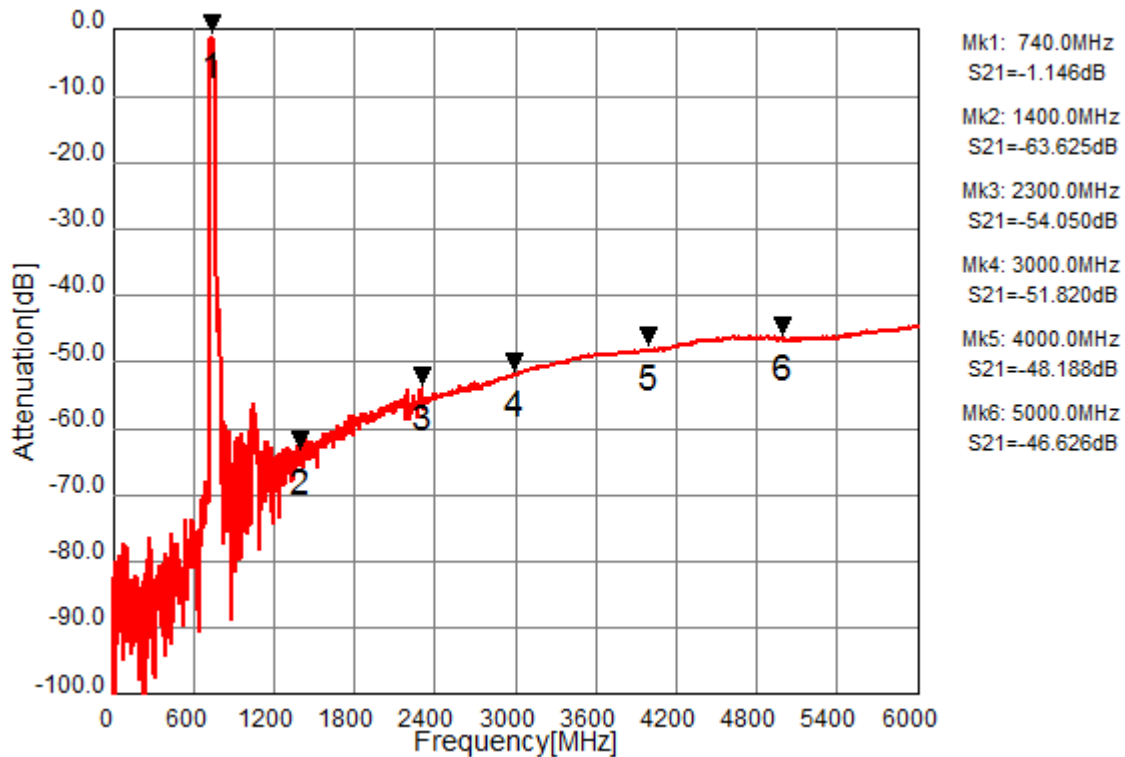


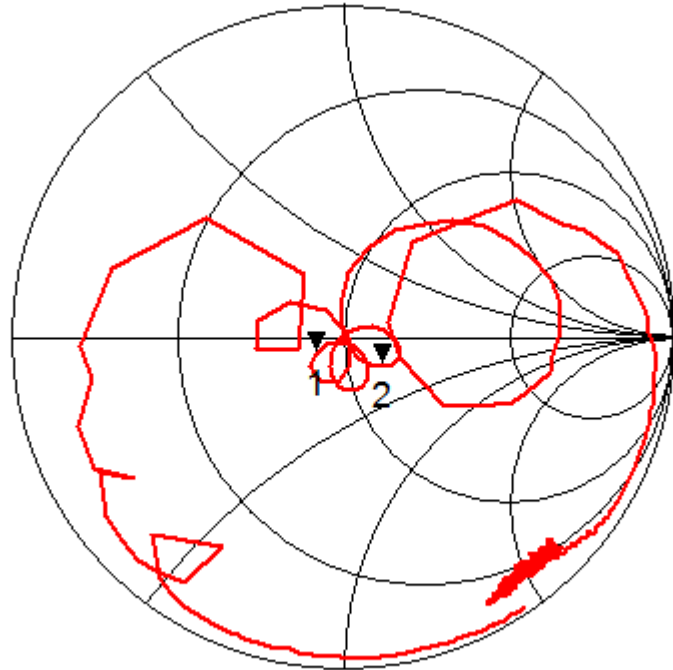
Fig.4 Wide-band Characteristic



**RoHS** MSL1

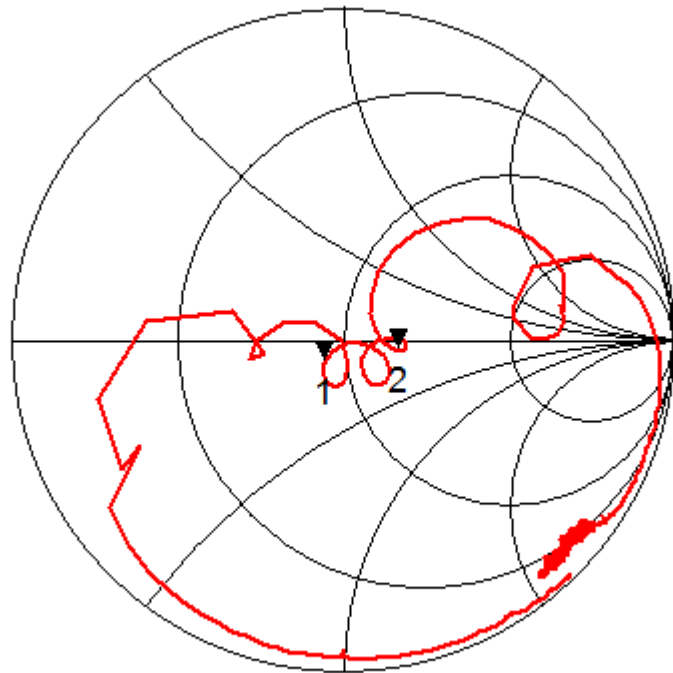
\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 17 Rx( 50/100ohm )	DATE	November. 6, 2012
Part Number	F5QG740M0P2KH	Version 1.1a	FINAL



Mk1: 734.0  
S11= 0.831 - j0.083  
Mk2: 746.0  
S11= 1.236 - j0.224

**Fig.5 Impedance (INPUT)**



Mk1: 734.0  
S22= 0.877 - j0.120  
Mk2: 746.0  
S22= 1.395 - j0.094

**Fig.6 Impedance (OUTPUT)**

**TAIYO YUDEN**



\* Pb Free Part

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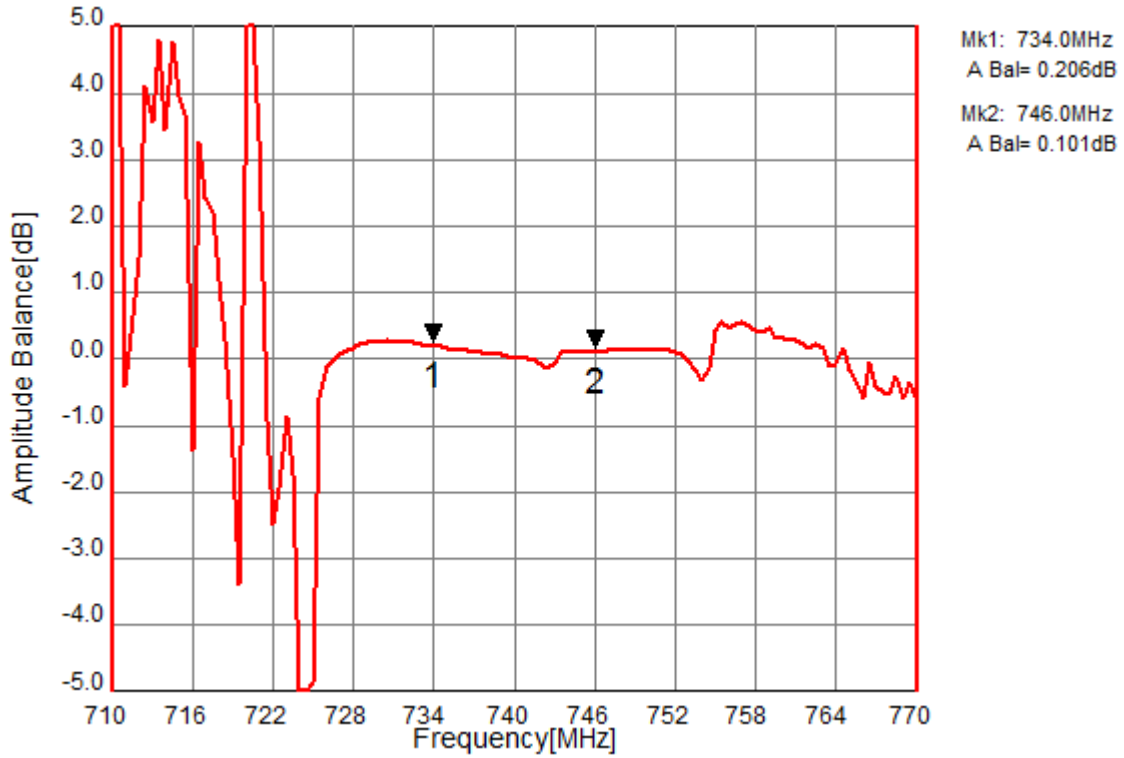


Fig.7 Amplitude Balance

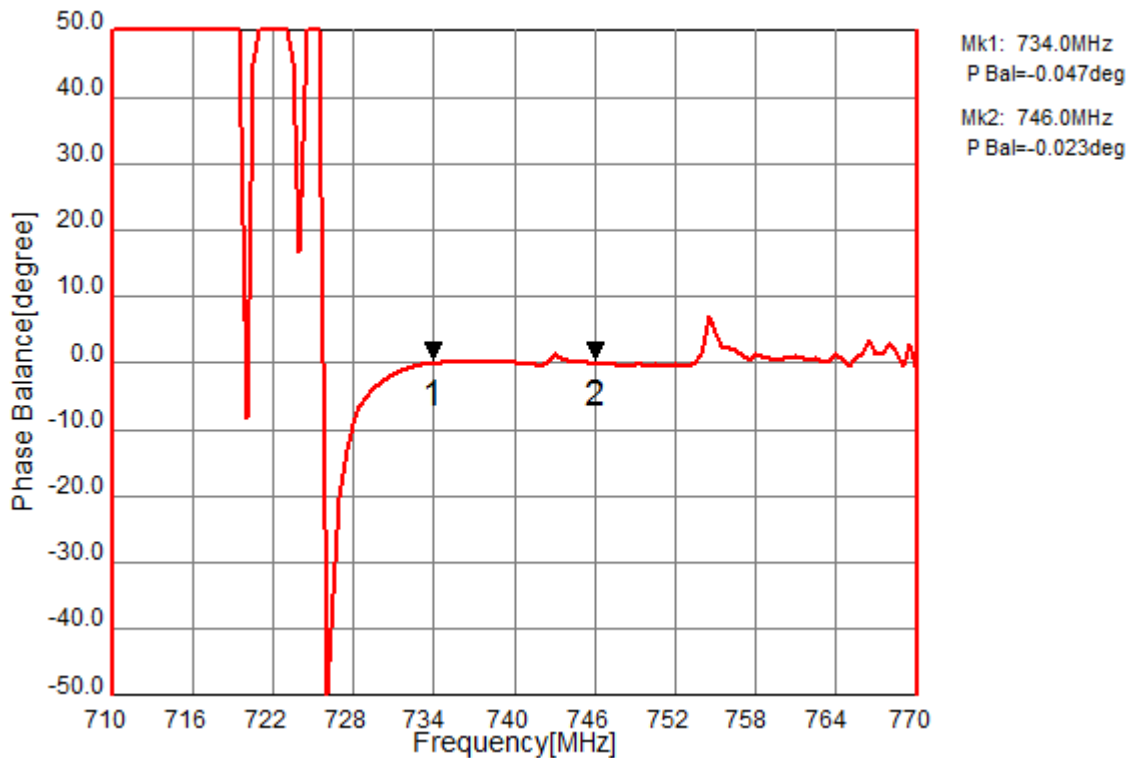


Fig.8 Phase Balance



\* Pb Free Part

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## Ordering Code

Ordering Code	Packing	Reel size	Status
F5QG740M0P2KH-J	Tape & Reel	5,000pcs.	MP
F5QG740M0P2KH-JA	Tape & Reel	less than 5,000 pcs.	MP
F5QG740M0P2KH-Y	Tape & Reel	15,000pcs	MP
F5QG740M0P2KH-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.