



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 12 Rx (50/100ohm)	Date	May. 23, 2014
Part Number	F5QG737M5P2KK	Version 1.0a	Final

Table 1 Electrical Specifications

Passband: 729 ~ 746 MHz							
Item	Condition (MHz)	Specification			Unit	Remarks	
		Min.	Typ.	Max.			
Insertion Loss	729~746	-	1.6	2.5	dB	(*1)	
Ripple	729~746	-	0.5	1.5	dB		
VSWR	Input	729~746	-	1.8	2.1	-	
	Output		-	1.8	2.1	-	
Absolute Attenuation	10~698	40	59	-	dB		
	699~716	48	55	-	dB		
	791~4000	35	45	-	dB		
	4000~6000	30	48	-	dB		
Amplitude Balance S21/S31	729~746	-1	-0.1/0.2	1	dB		
Phase Balance (ϕ S21- ϕ S31)+180	729~746	-10	-1/1	10	deg.		
Input Impedance		50			ohm	Unbalanced	
Output Impedance		100			ohm	Balanced	
Operating Temperature		-30 to +85			°C		

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



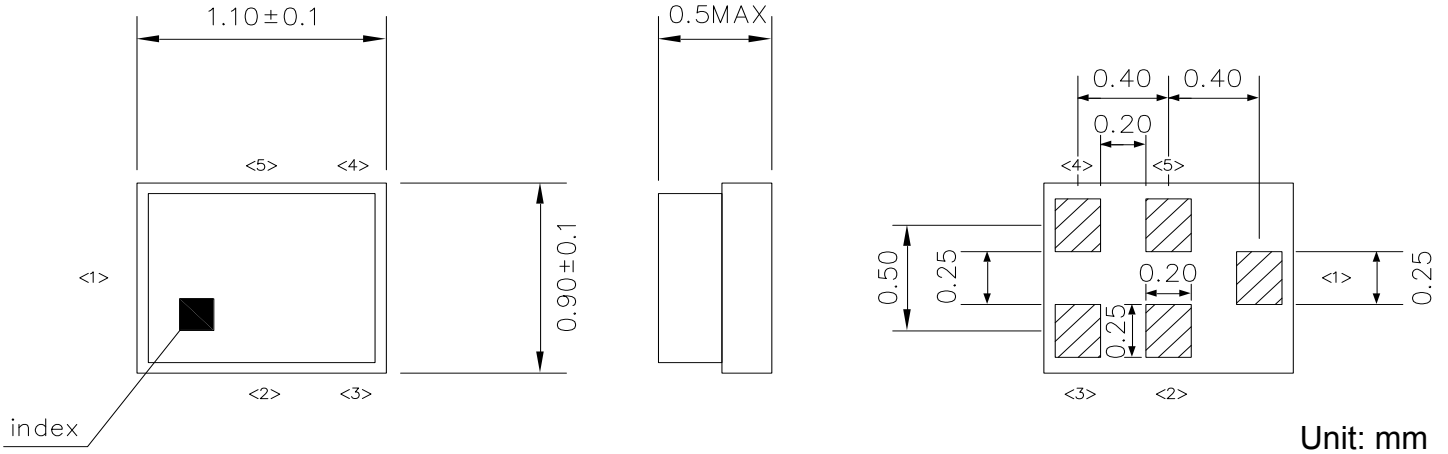
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Dimensions

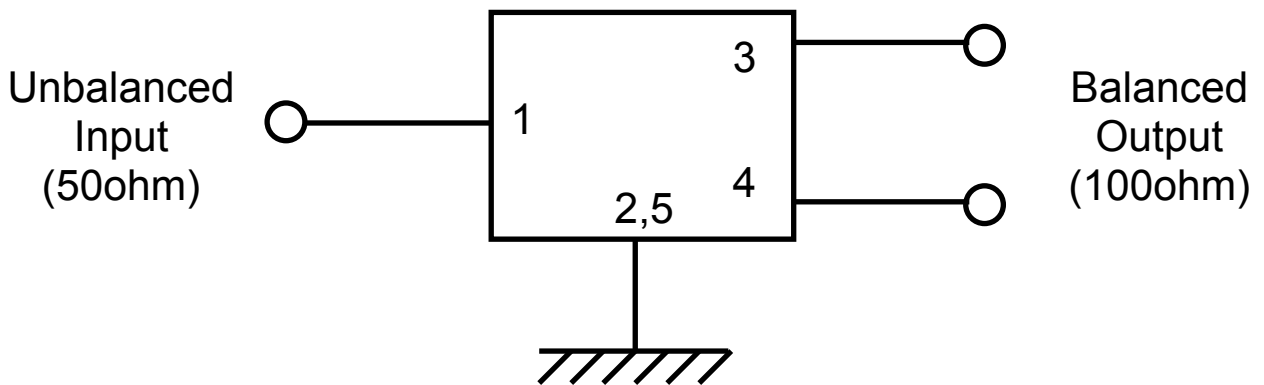
Device size: 1.1typ. x 0.9typ. x 0.5max.



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 Condition





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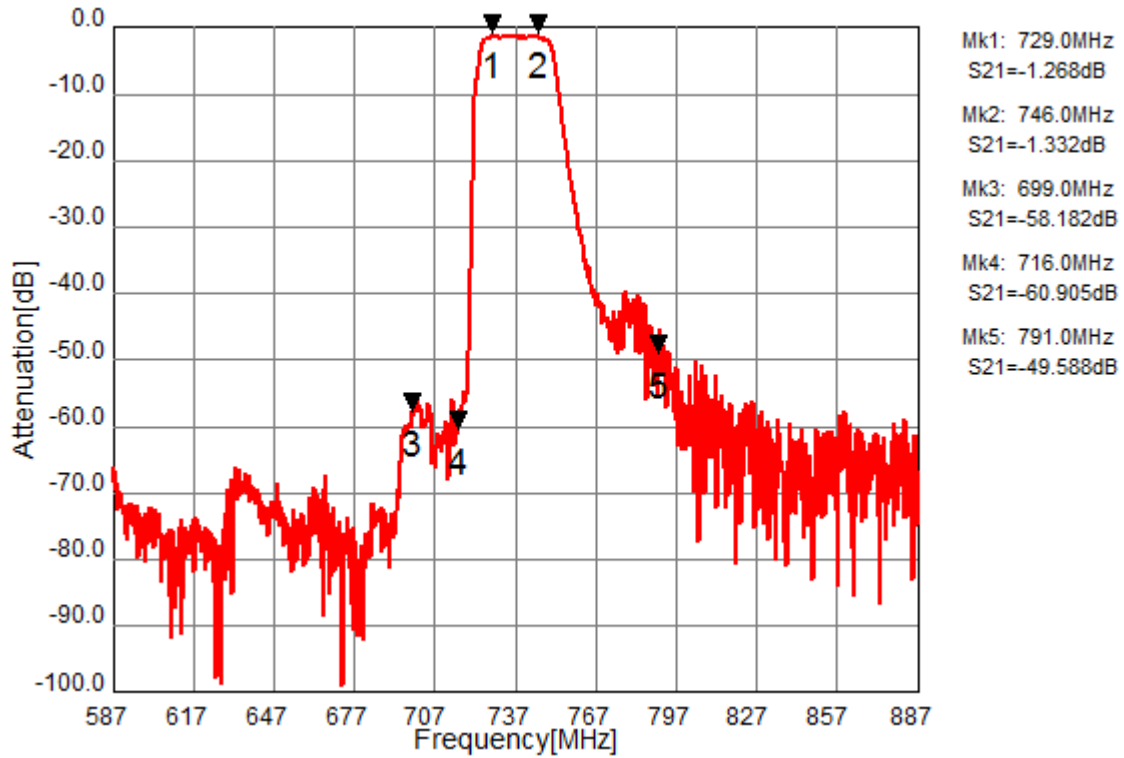


Fig.1 Pass-band Characteristic

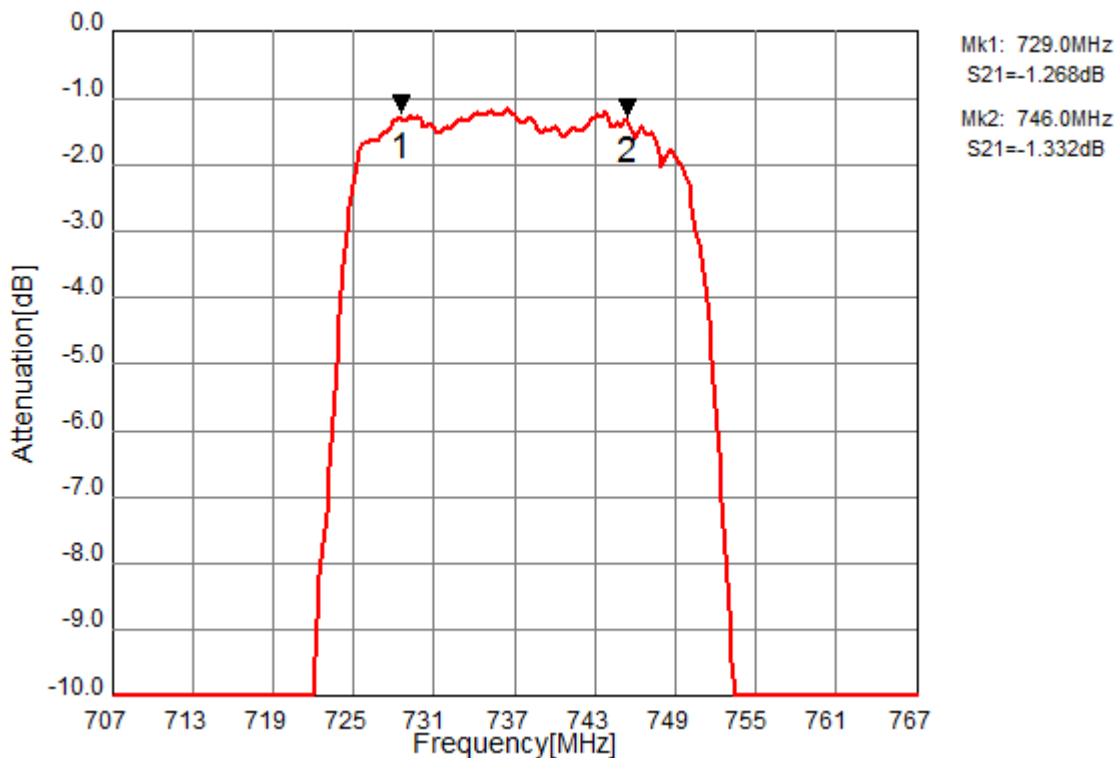


Fig.2 In-band Characteristic



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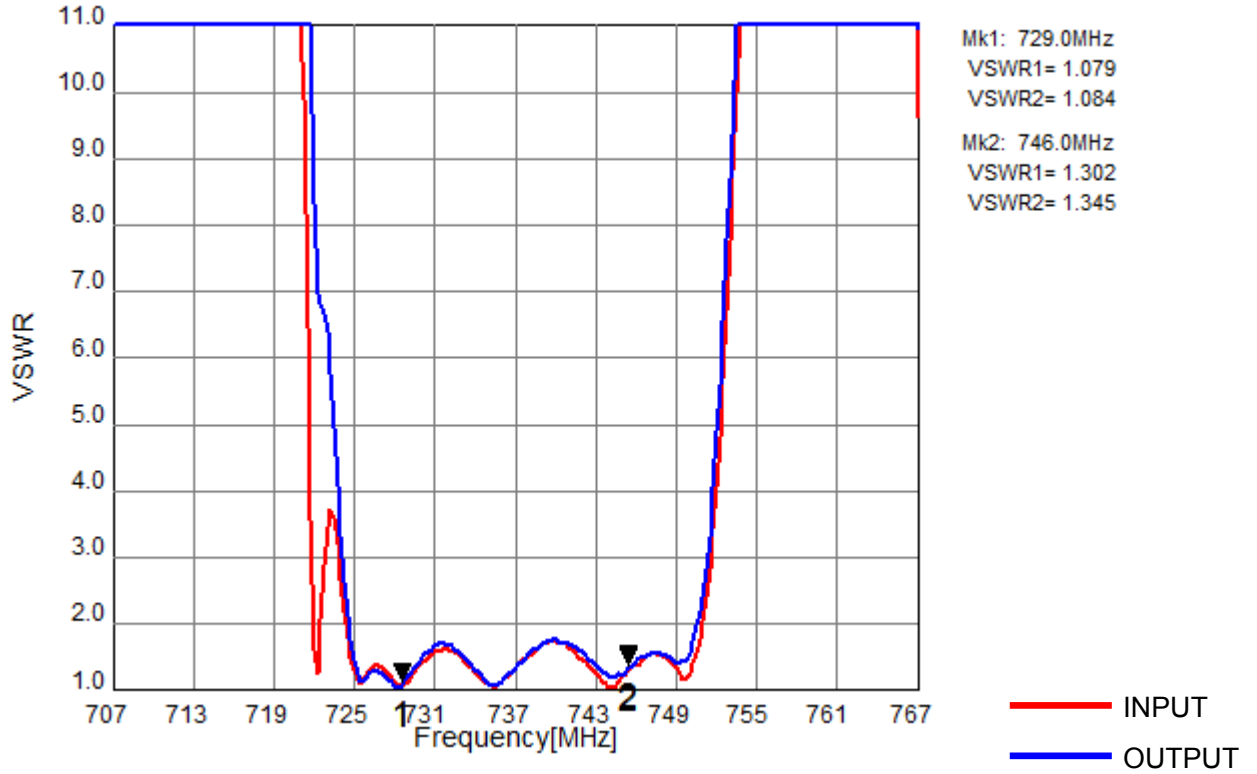


Fig.3 VSWR

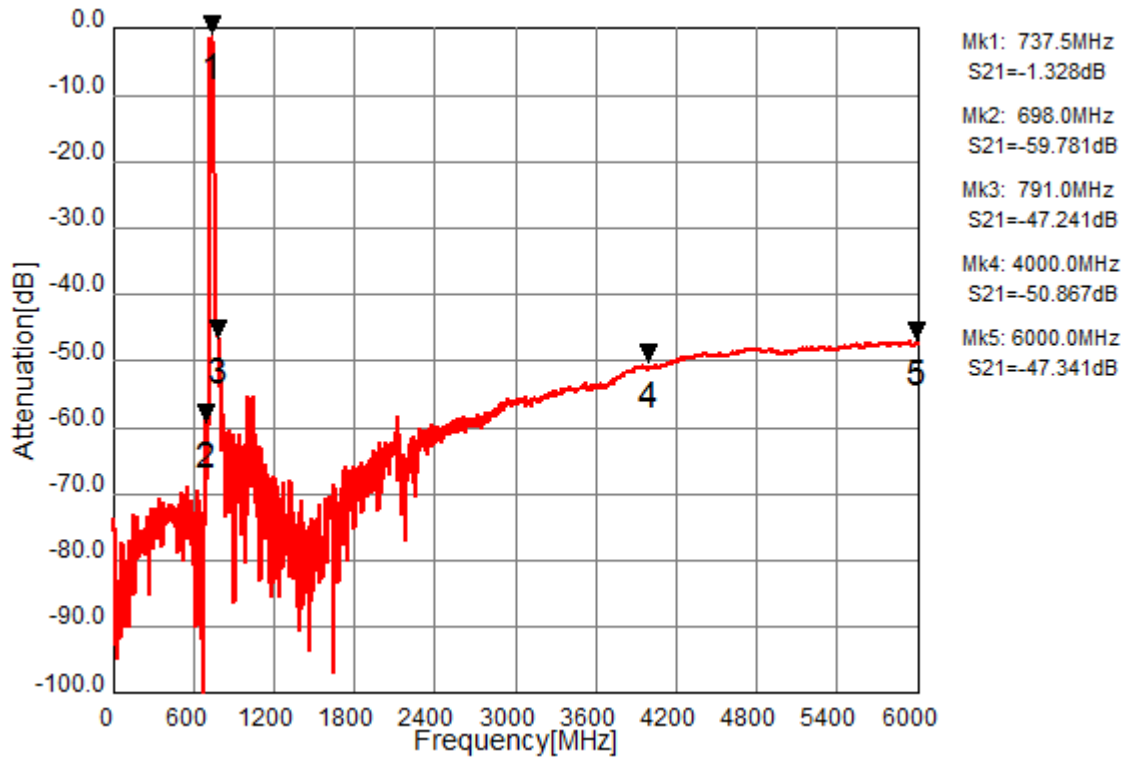


Fig.4 Wide-band Characteristic



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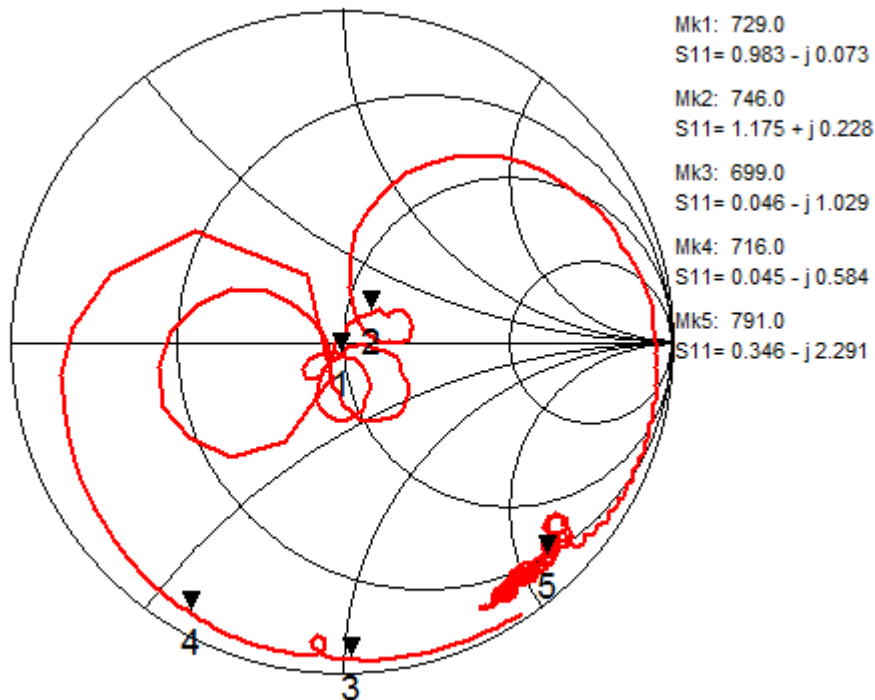


Fig.5 Impedance (INPUT)

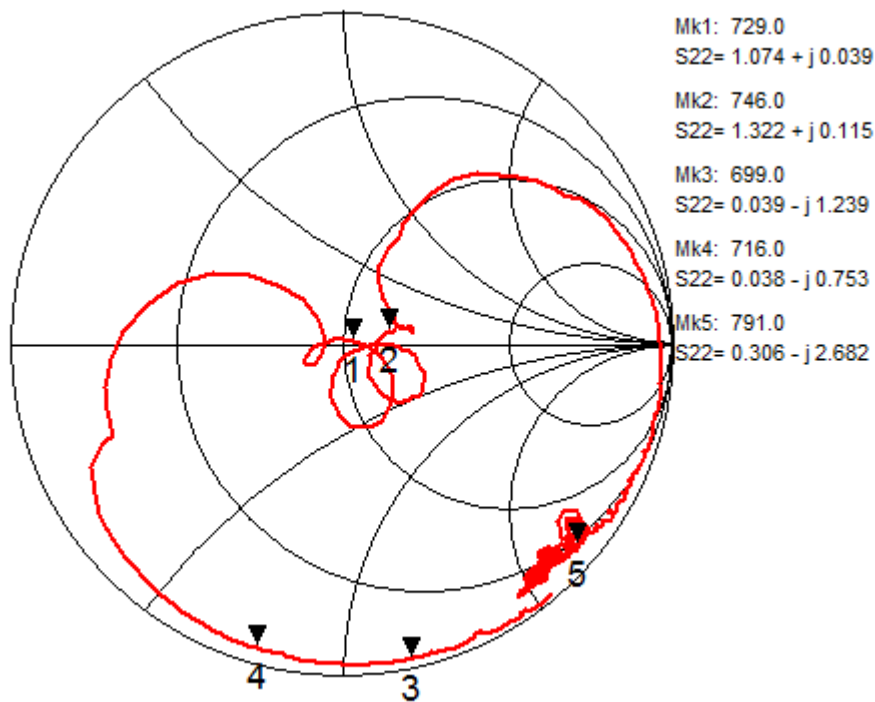


Fig.6 Impedance (OUTPUT)



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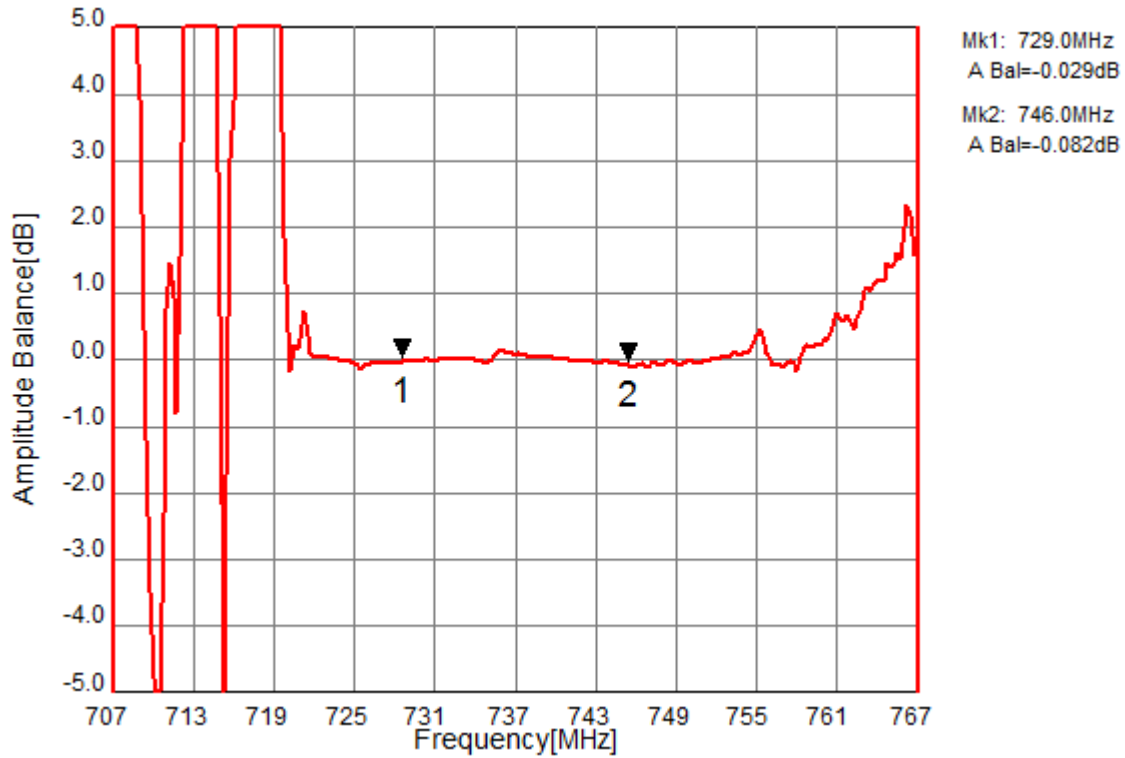


Fig.7 Amplitude Balance

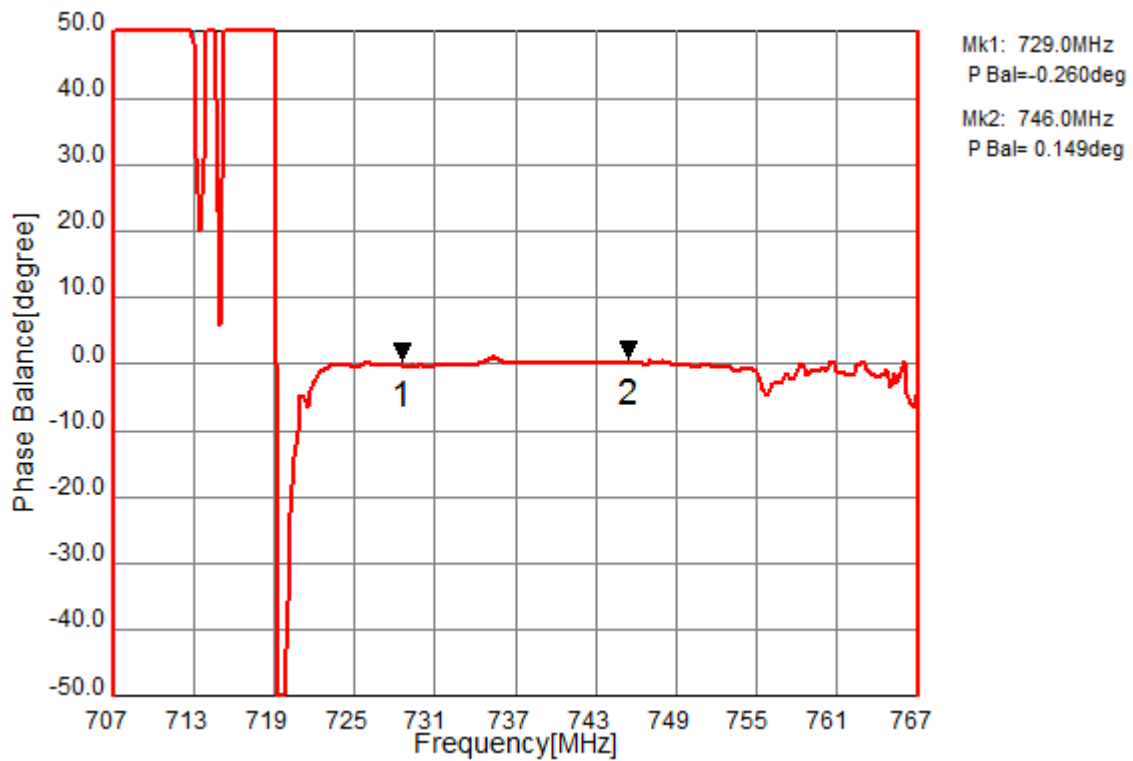


Fig.8 Phase Balance

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Ordering Code

Ordering Code	Packing	Reel size	Status
F5QG737M5P2KK-J	Tape & Reel	5,000pcs.	MP
F5QG737M5P2KK-JA	Tape & Reel	less than 5,000 pcs.	MP
F5QG737M5P2KK-Y	Tape & Reel	15,000pcs	MP
F5QG737M5P2KK-YA	Tape & Reel	less than 15,000pcs	MP
F5QG737M5P2KK-Q	Bulk	few pcs.	MP

*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives..

*MP : Mass Production.

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Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

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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.

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