



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	3GPP2 BC0+BC10 Rx (50/100ohm)	DATE	June 30, 2010
Part Number	F5KY878M0B4ND	Version 1.0 a	

Table 1.Electrical specifications

Item	Condition	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	862 - 894 MHz	-	2.1	2.8	dB(*1)	
Ripple	862 - 894 MHz	-	0.8	1.6	dB	
Absolute Attenuation	DC - 817 MHz	40	62	-	dB	
	817 - 849 MHz	46	53	-	dB	
	1724 - 1788 MHz	40	70	-	dB	
	1850 - 1910 MHz	40	68	-	dB	
	1920 - 6000 MHz	35	50	-	dB	
VSWR(Input)	862 - 894 MHz	-	1.8	2.2	-	
VSWR(Output)	862 - 894 MHz	-	1.8	2.2	-	
Amplitude Balance (S21/S31)	862 - 894 MHz	-1	-0.4/ +0.2	+1	dB	
Phase Balance ($\angle S21 - \angle S31 + 180$)	862 - 894 MHz	-10	-2/+3	+10	deg.	
Input Level		-	-	15	dBm	
Input Impedance		50			ohm	
Output Impedance		100			ohm	
Device Size		1.4typ. x 1.0typ. x 0.5max.			mm	
Operating temp.		-30 ~ +85			°C	

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



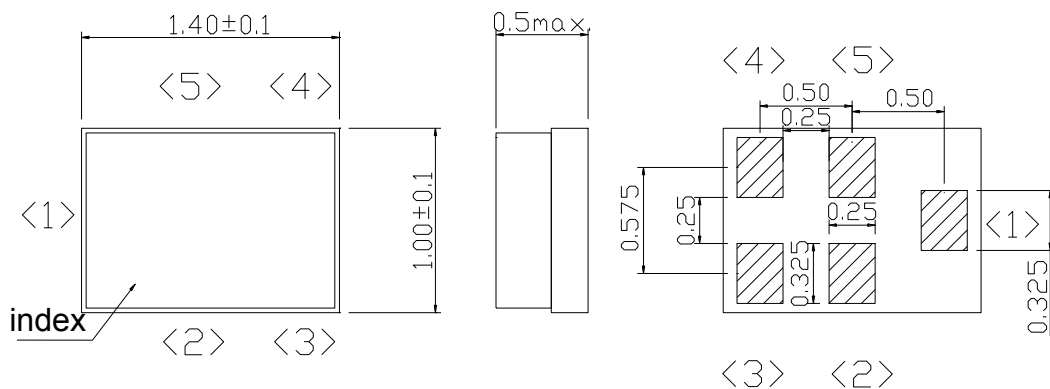
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Dimensions

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

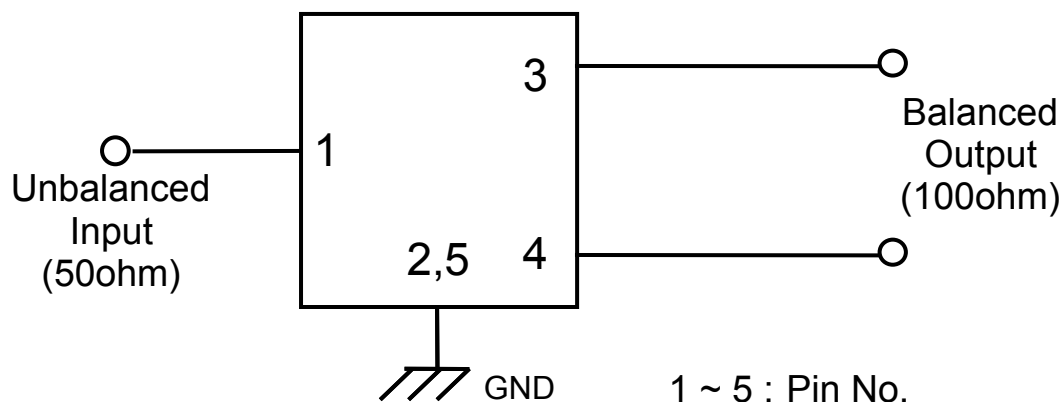


Unit : mm

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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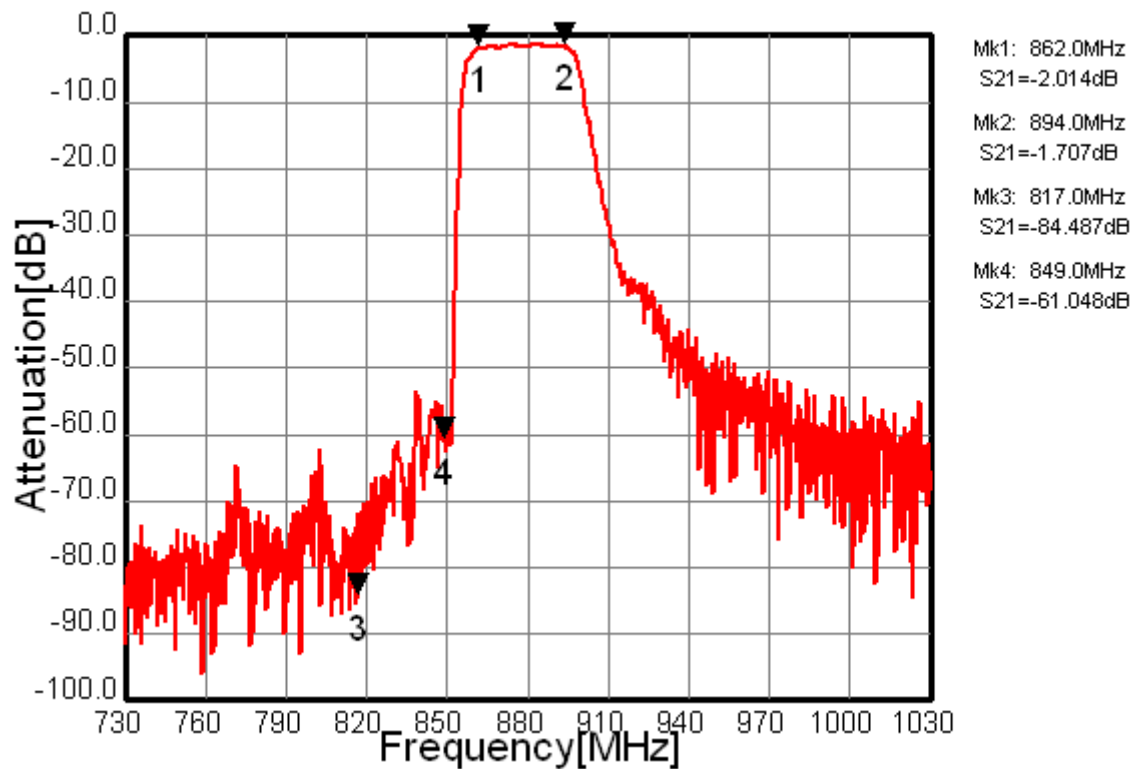


Fig.1 Pass-band Characteristics

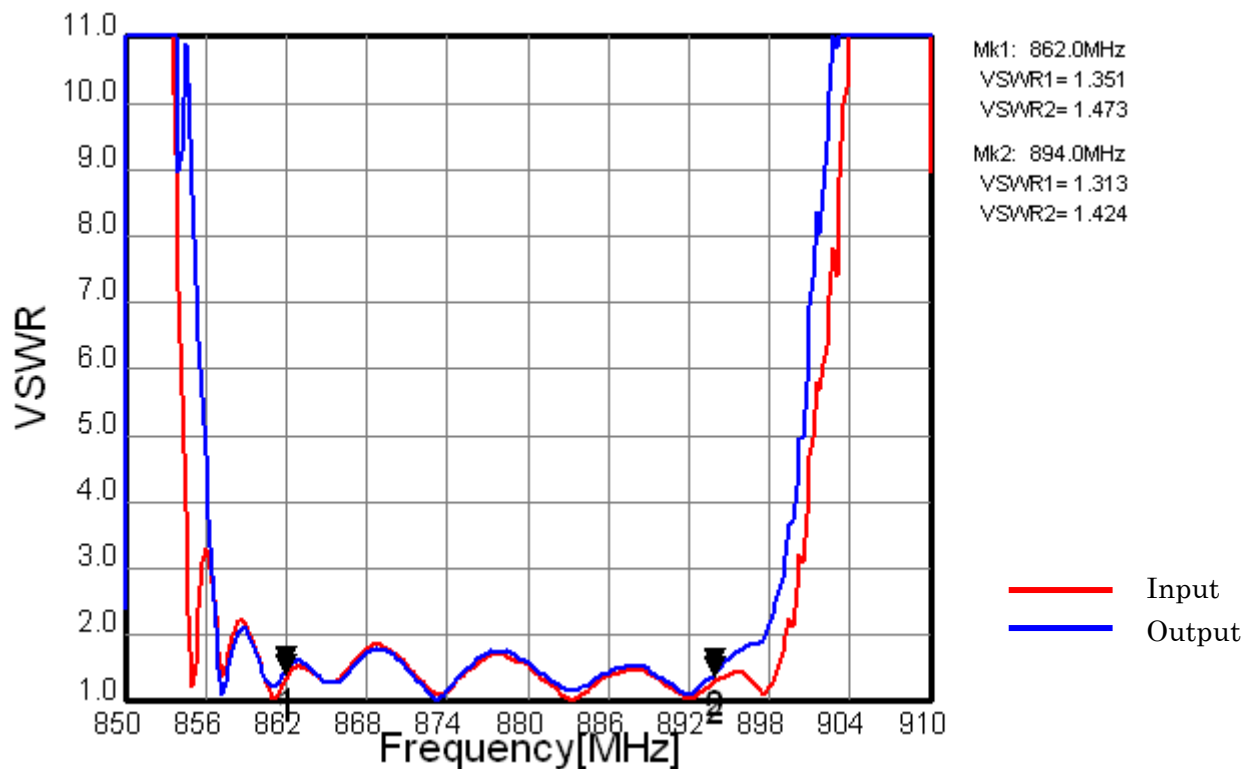


Fig.2 VSWR

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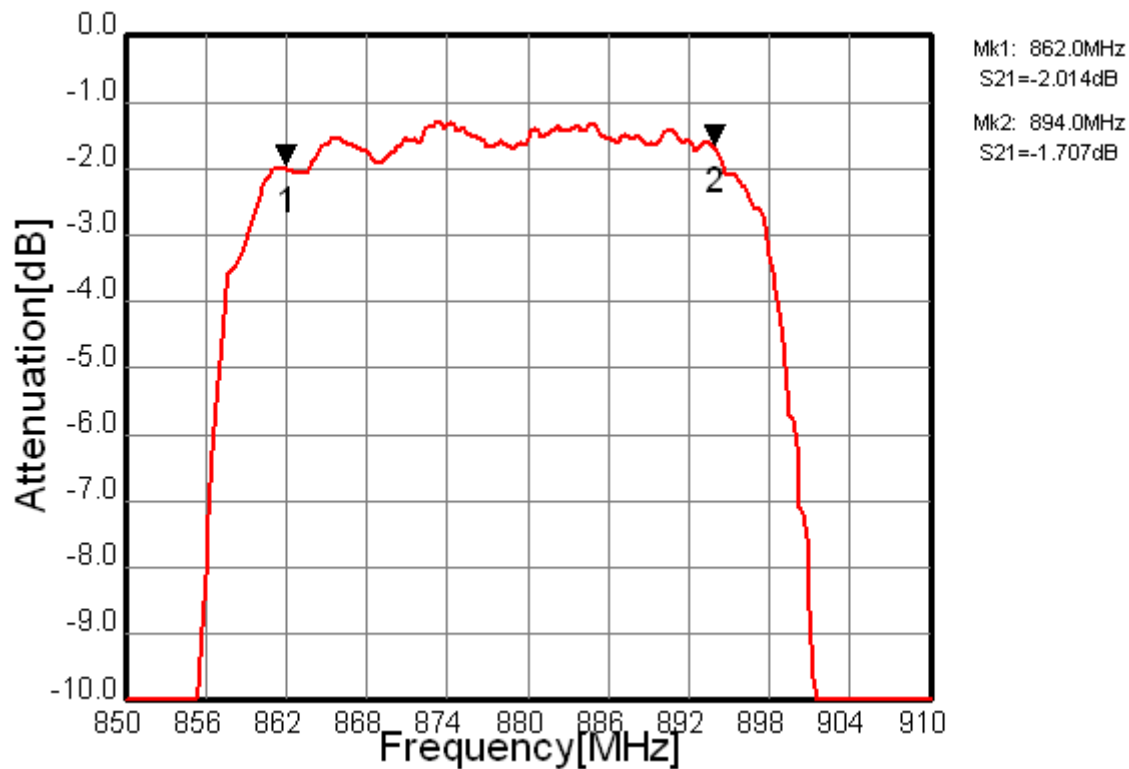


Fig.3 In-band Characteristics (Simulation)

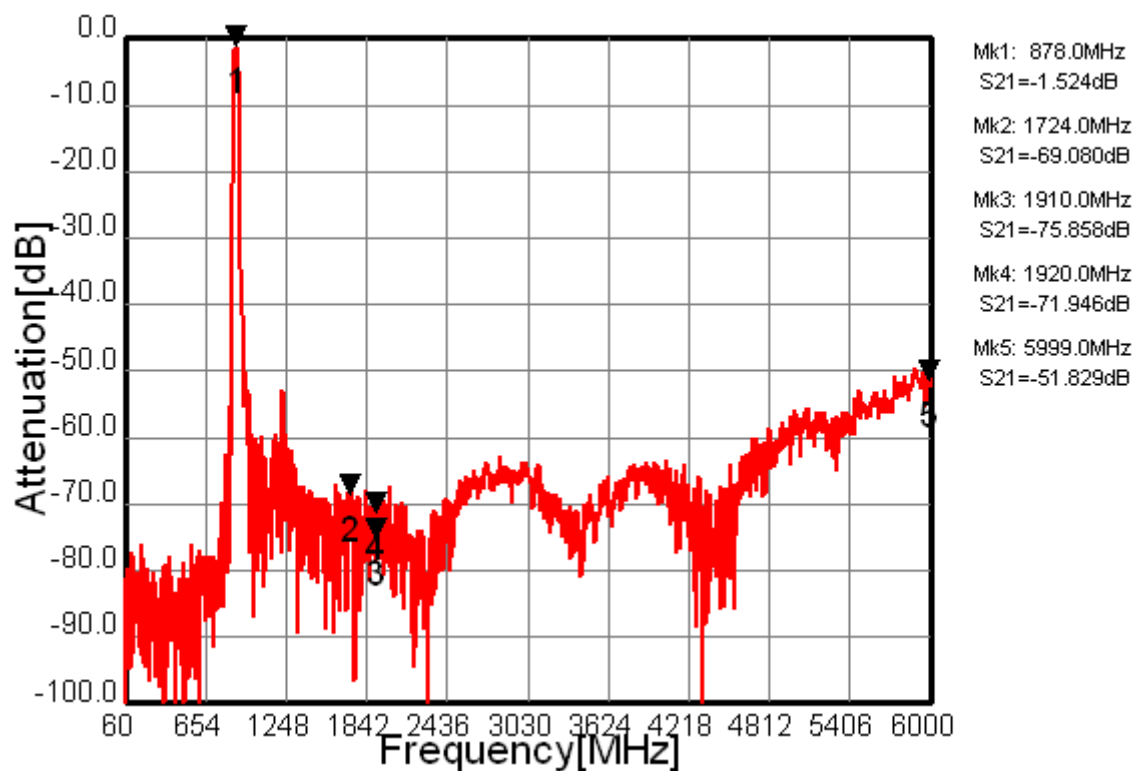


Fig.4 Wide-band Characteristic

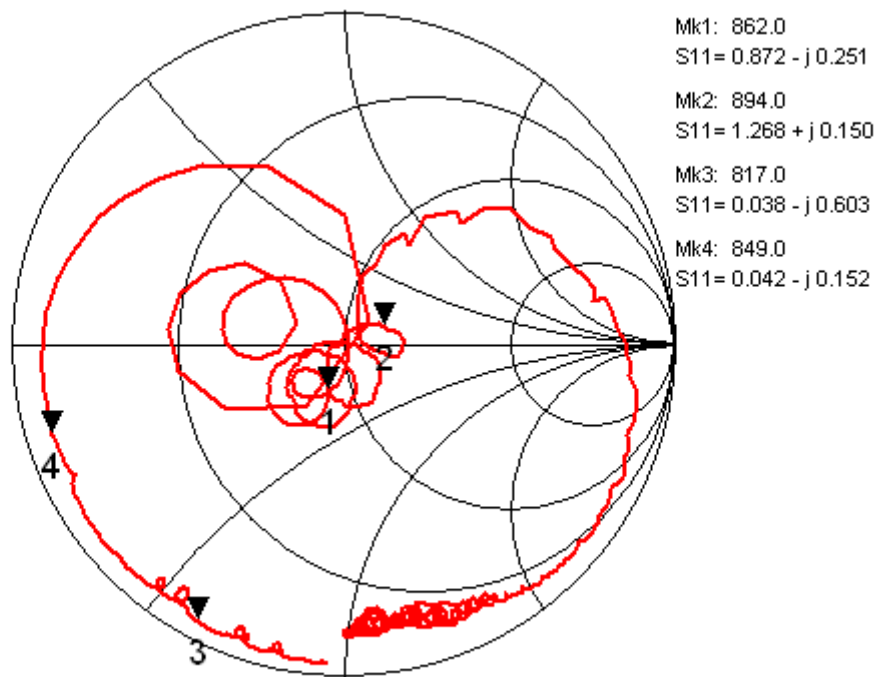
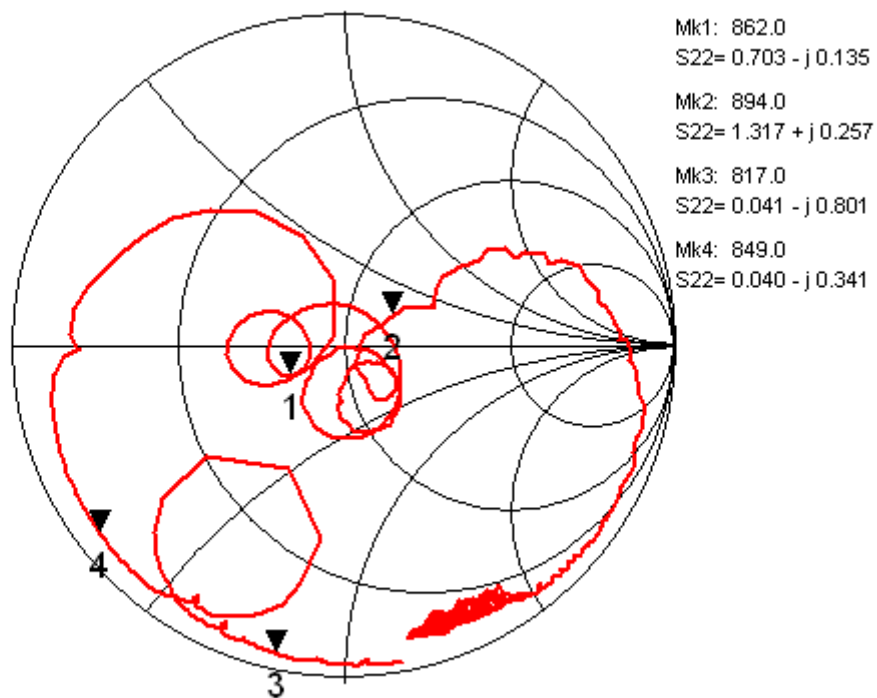
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**Fig.5 Impedance (Input)****Fig.6 Impedance (Output)****TAIYO YUDEN**



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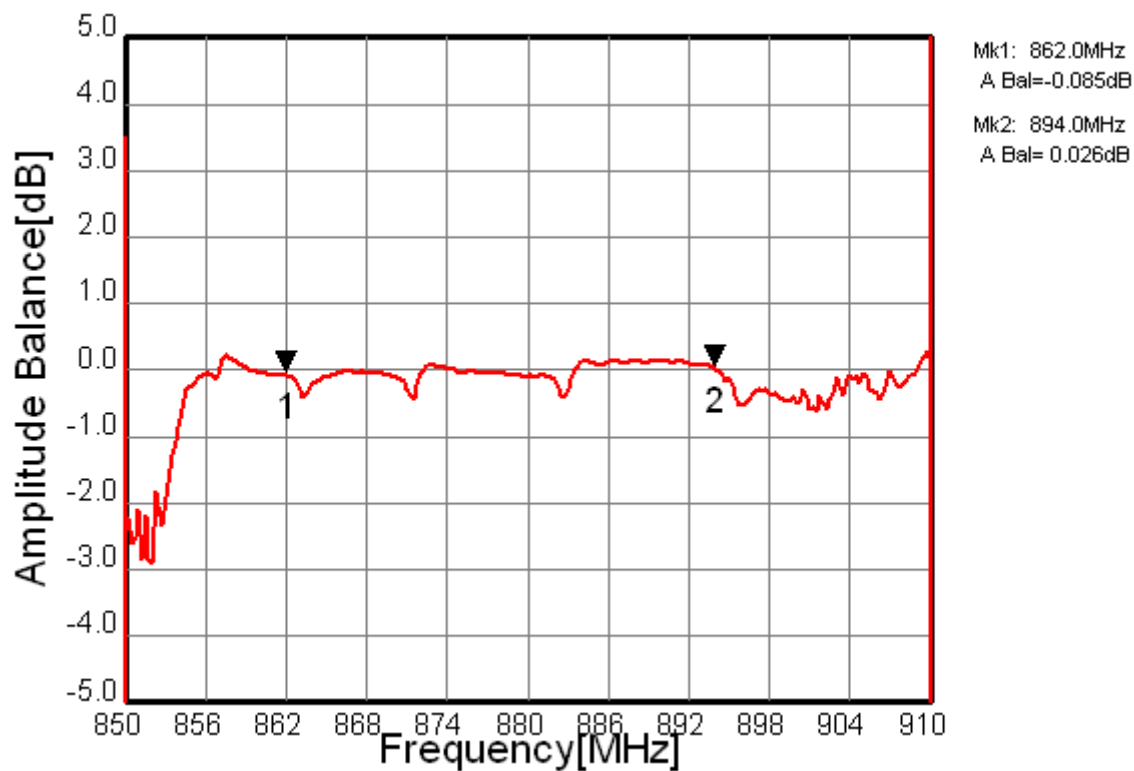


Fig.7 Amplitude balance

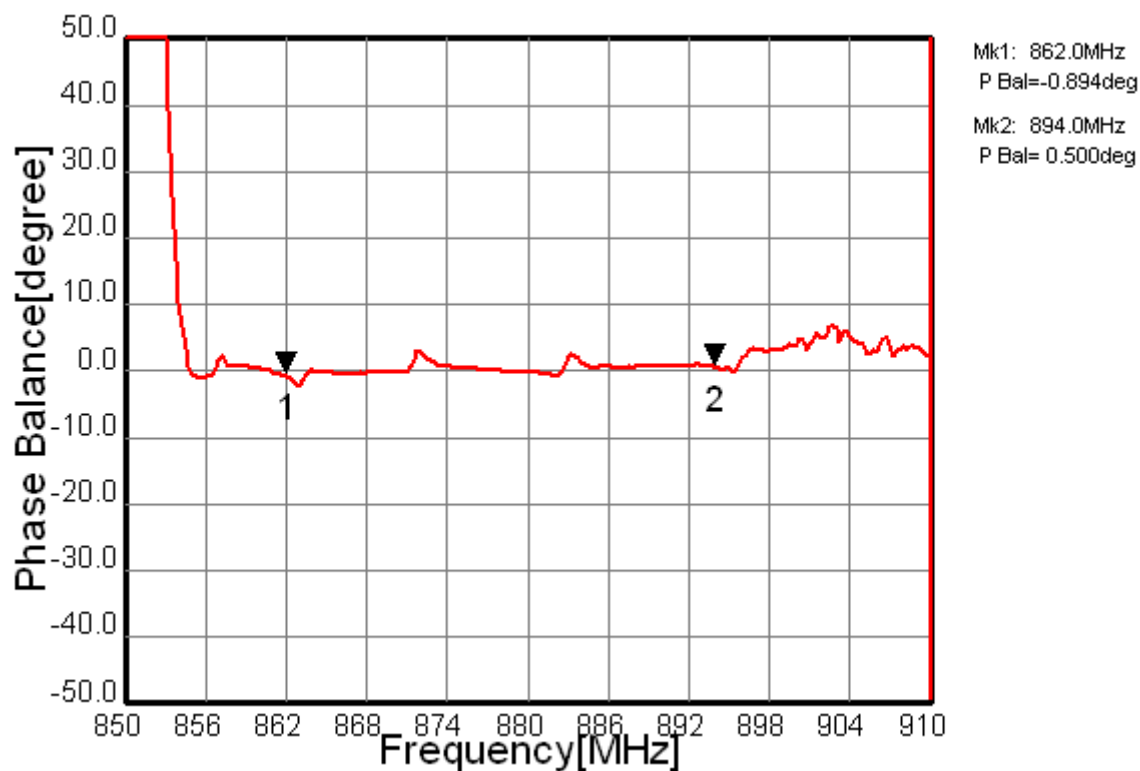


Fig.8 Phase balance

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Ordering Code

Ordering Code	Packing	Reel size	Status
F5KY878M0B4ND-Z S	Tape & Reel	3,000pcs.	MP
F5KY878M0B4ND-ZAS	Tape & Reel	less than 3,000 pcs.	MP
F5KY878M0B4ND-Y S	Tape & Reel	15,000pcs	MP
F5KY878M0B4ND-YAS	Tape & Reel	less than 15,000 pcs.	MP
F5KY878M0B4ND-Q S	Bulk	few pcs.	MP

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

*Status : 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.