



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS+GLONASS+Compass (50/100ohm)	Date	Jun. 20, 2014
Part Number	F6BG1G582R6TT	Version 2.1bA	Final

Table 1 Electrical Specifications

Passband: 1559 – 1606 MHz							
Item	Condition (MHz)	Specification			Unit	Remarks	
		Min.	Typ.	Max			
Insertion Loss	1559 – 1606	-	1.7	2.4	dB	(*1)	
Ripple	1559 – 1606	-	0.6	1.5	dB		
VSWR	Input	1559 – 1606	-	1.9	2.3	-	
	Output	1559 – 1606	-	2.0	2.3	-	
Absolute Attenuation	10 – 960	42	49	-	dB		
	1427 – 1463	39	43	-	dB		
	1648 – 1698	10	31	-	dB		
	1710 – 1830	32	36	-	dB		
	1850 – 1910	30	47	-	dB		
	1920 – 1980	30	52	-	dB		
	2300 – 2400	30	55	-	dB		
	2400 – 2500	45	57	-	dB		
Amplitude Balance S ₂₁ /S ₃₁	1559 – 1606	-1.2	-0.8/+0.7	+1.2	dB		
Phase Balance (φ _{S21} -φ _{S31})+180	1559 – 1606	-10	-6.0/+3.0	+10	deg.		
Input Impedance		50			ohm	Single-ended	
Output Impedance		100			ohm	Differential	
Operating Temperature		-30 to +85			°C		

(*1) Specification of insertion loss excludes loss that comes from the test board.



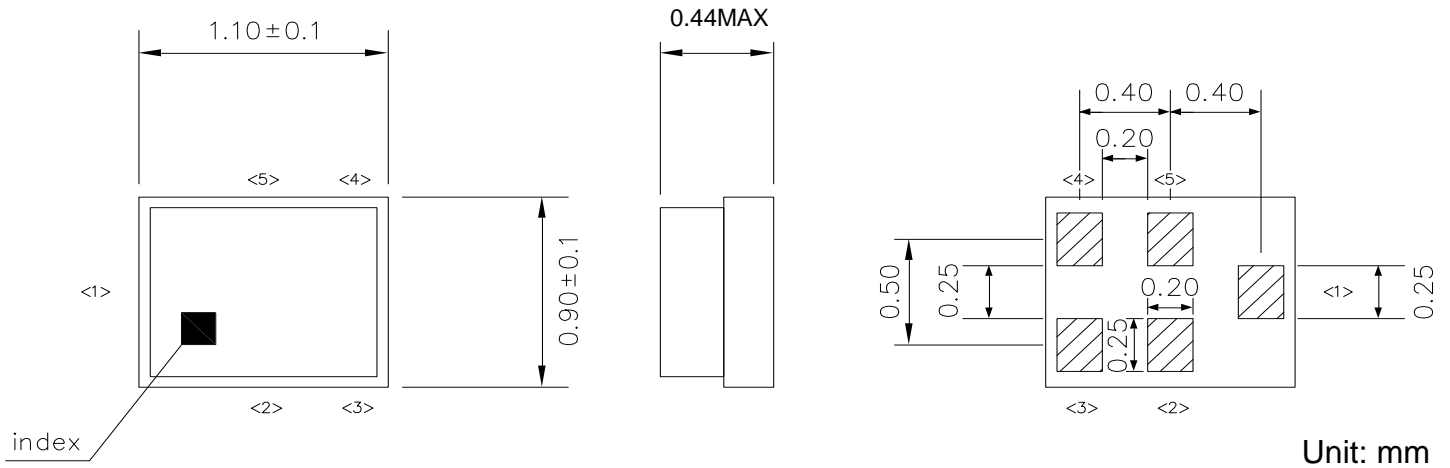
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Dimensions

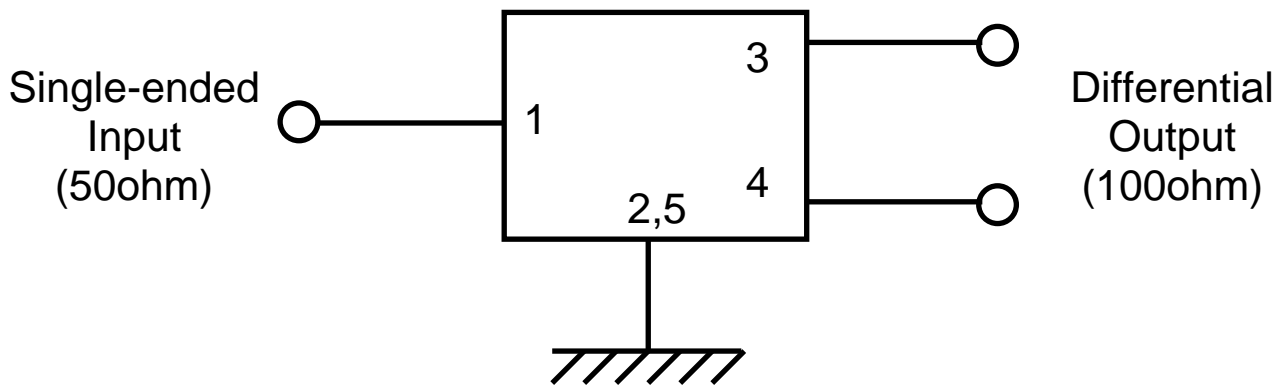
Device size: 1.1typ. x 0.9typ. x 0.44max.



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





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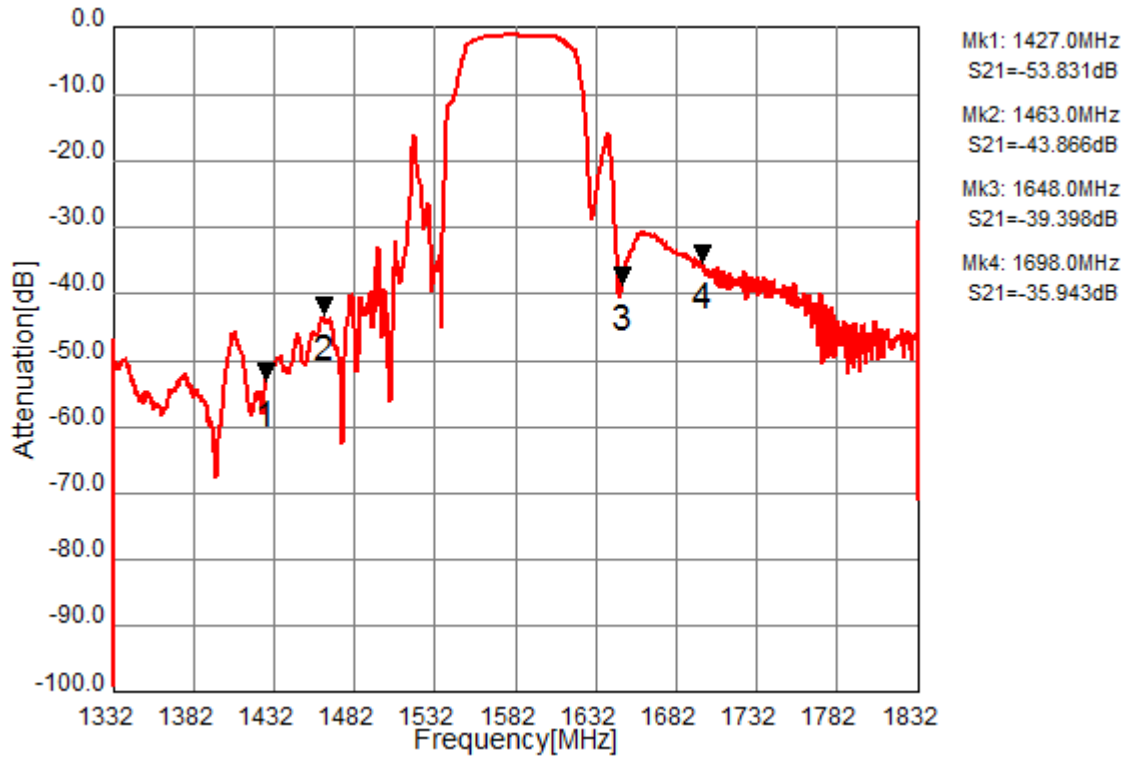


Fig.1 Pass-band Characteristics

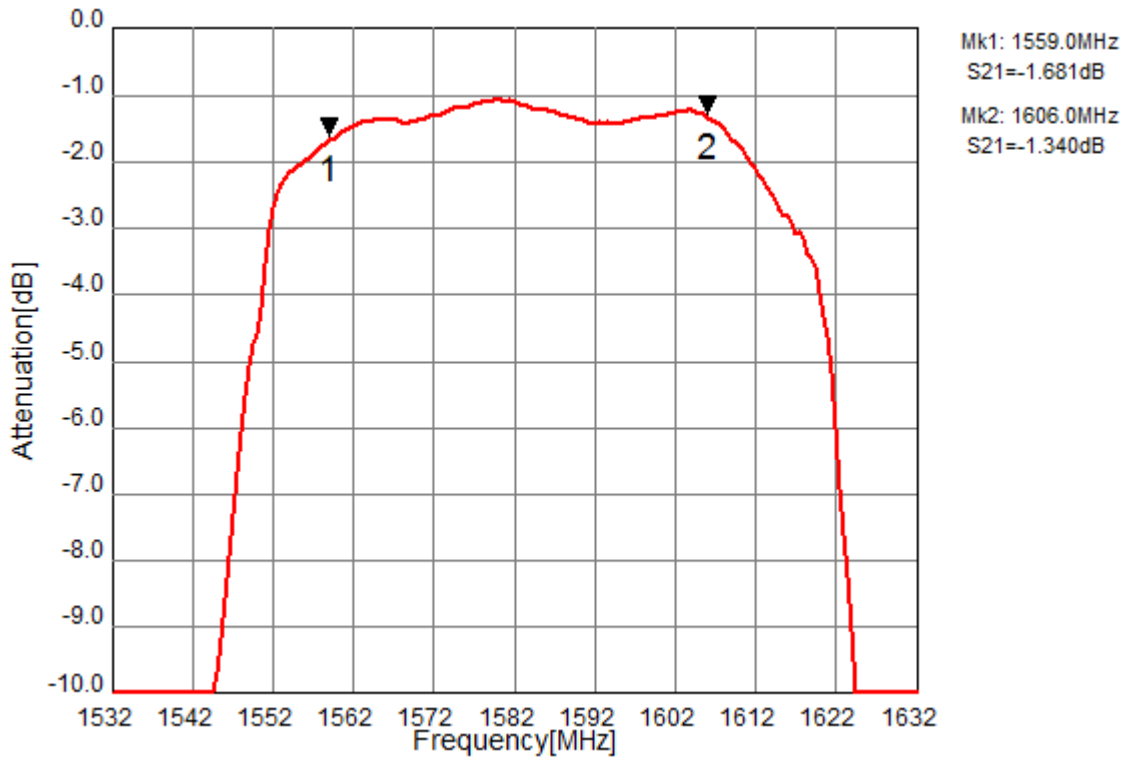


Fig.2 In-band Characteristics

These data exclude loss that comes from test board.



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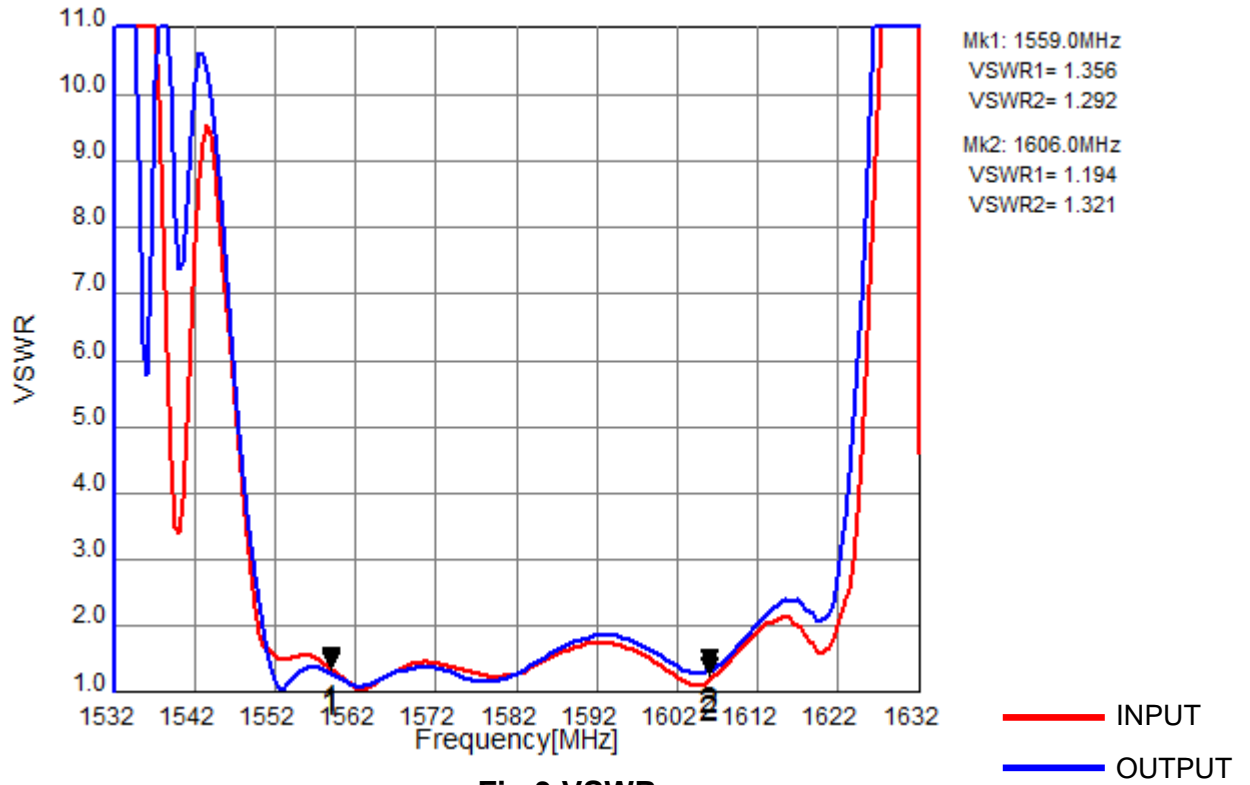


Fig.3 VSWR

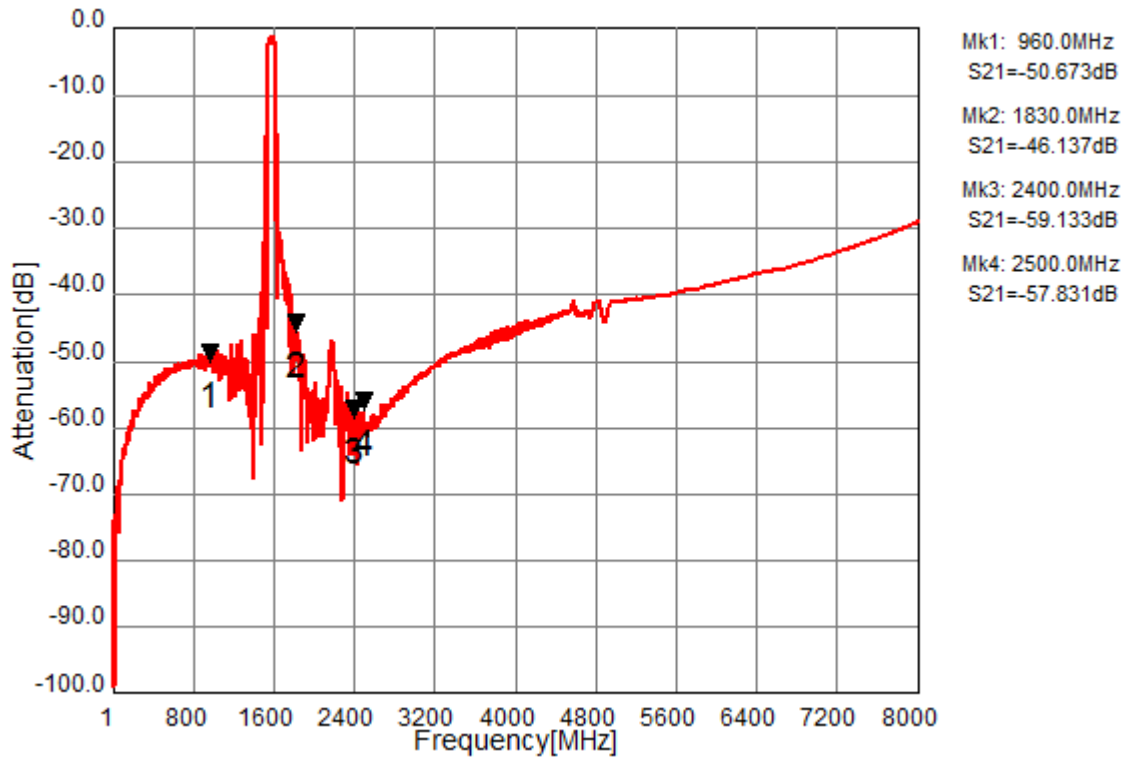


Fig.4 Wide-band Characteristics

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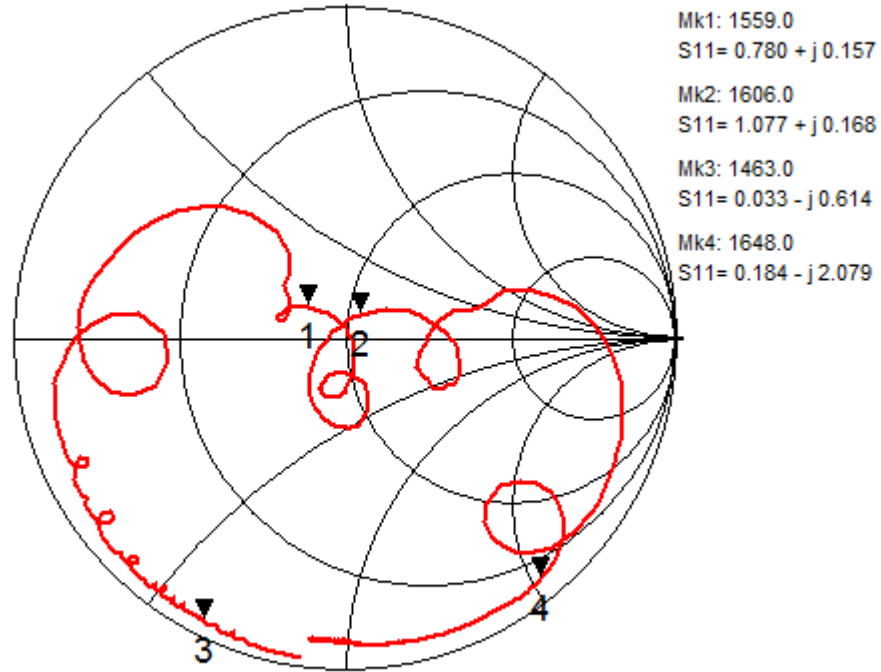


Fig.5 Impedance (INPUT)

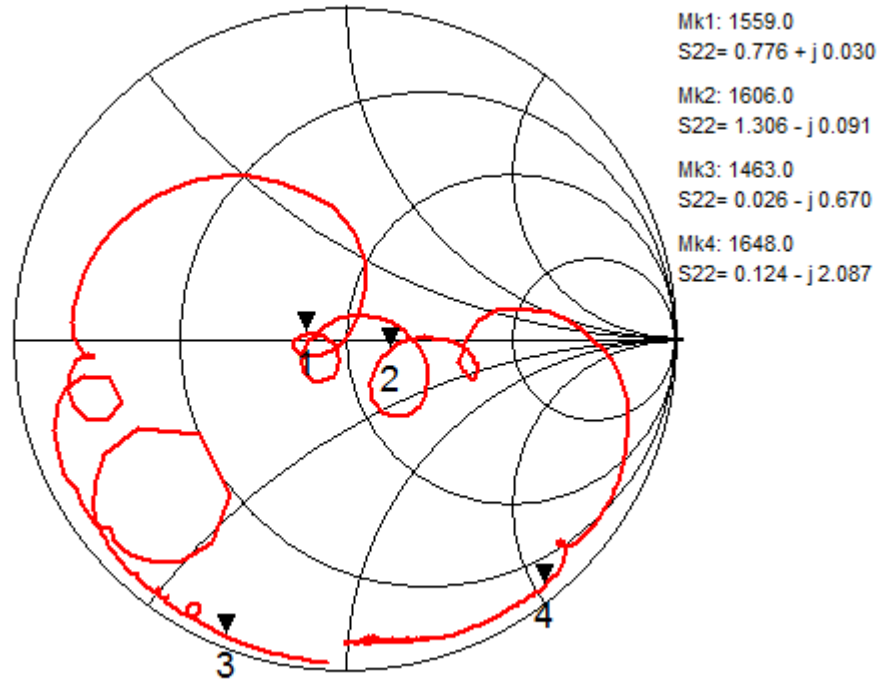


Fig.6 Impedance (OUTPUT)



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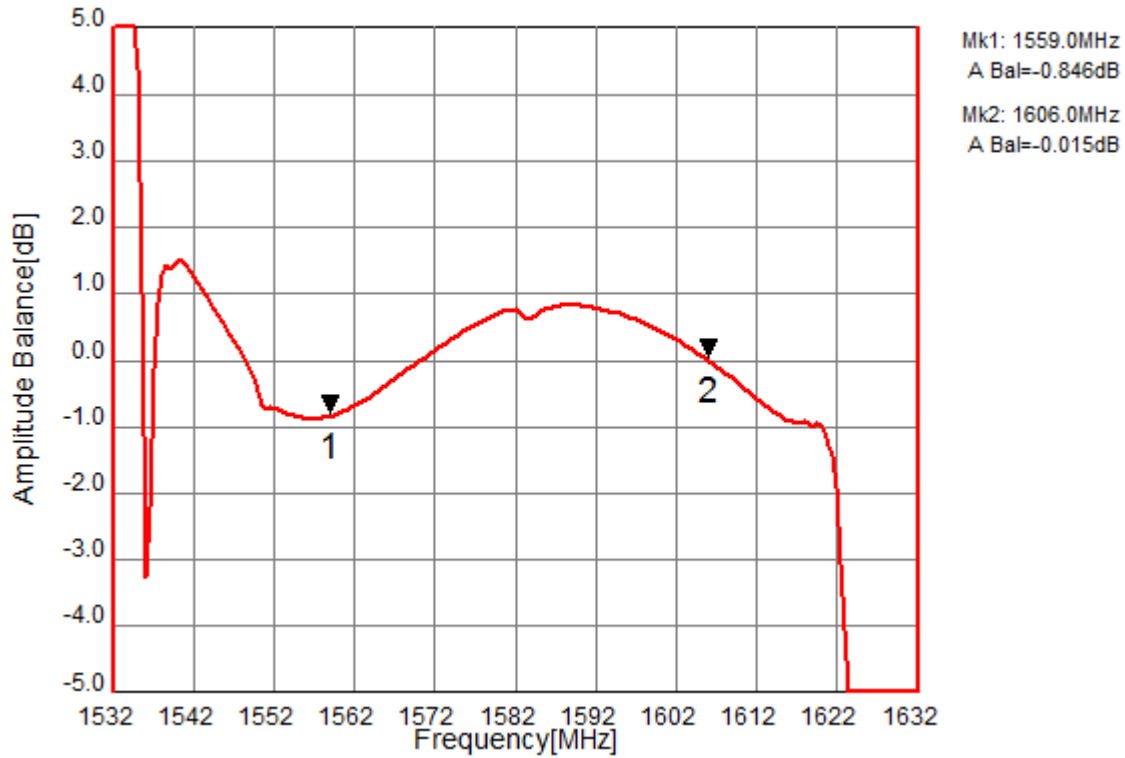


Fig.7 Amplitude Balance

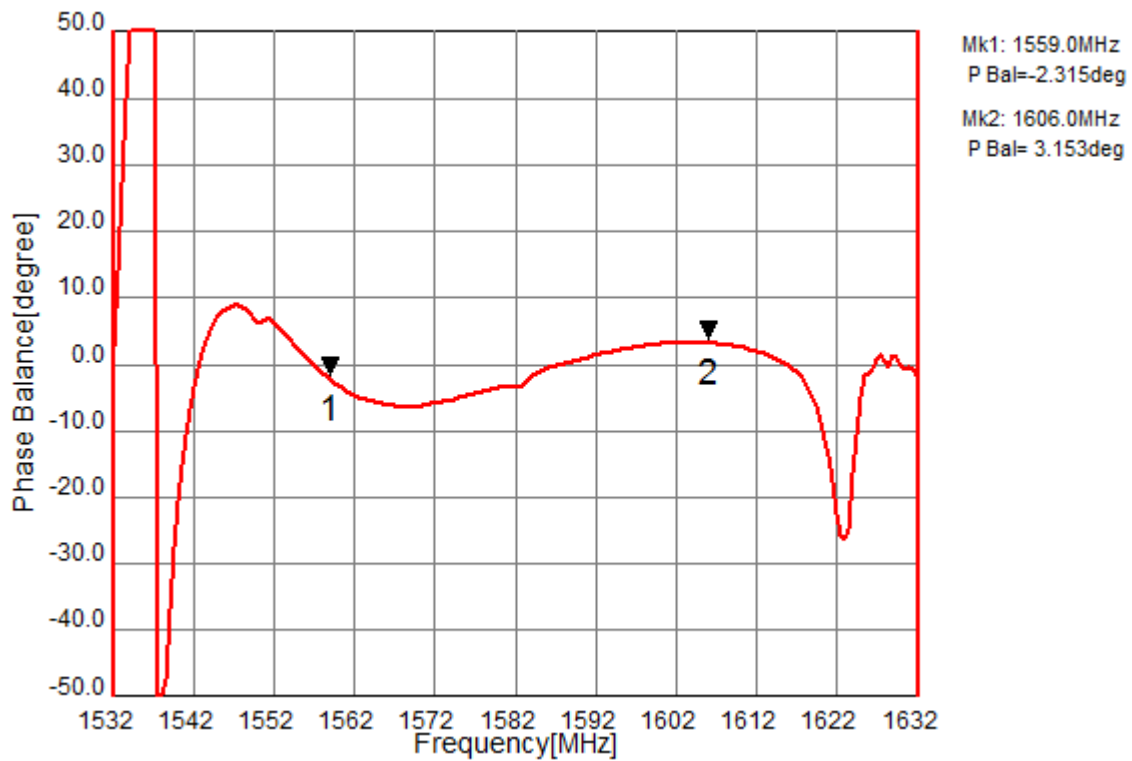


Fig.8 Phase Balance



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6BG1G582R6TT-J	Tape & Reel	5,000pcs.	MP
F6BG1G582R6TT-JA	Tape & Reel	less than 5,000 pcs.	MP
F6BG1G582R6TT-Y	Tape & Reel	15,000pcs.	MP
F6BG1G582R6TT-YA	Tape & Reel	less than 15,000 pcs.	MP
F6BG1G582R6TT-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.