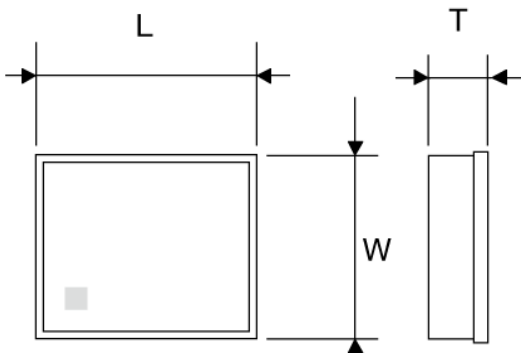
Spec Sheet

SAW Filter

FAR-F6KB-1G8425-B4GA



Features

- Item Summary

  DCS , Rx, 504

- Lifecycle Stage

  Mass Production

- Standard packaging quantity (minimum)

  Taping Embossed 3000 , 15000pcs

Products characteristics table

Temperature Range	-30 to +85℃
Use	GSM
Transmitting / Receiving	Rx Filter
Insertion Loss	1.5dB
Attenuation	14dB
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

Pb-free

RoHS

MSL1

* Pb Free Part

Customer Name	**Standard specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	DCS-Rx (50/150ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G8425-B4GA	Version 8.0h	

Table 1. Electrical specifications

Passband: 1805 ~ 1880 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1805~1880 MHz	-	1.5	2.2	dB	+25+/-2°C
		-	-	2.8	dB	
Ripple	1805~1880 MHz	-	0.4	1.8	dB	
Absolute attenuation	DC~1300 MHz	40	48	-	dB	
	1300~1705 MHz	28	37	-	dB	
	1705~1785 MHz	12	14	-	dB	+25+/-2°C
		10	-	-	dB	
	1920~1980 MHz	16	19	-	dB	
	1980~3000 MHz	20	22	-	dB	
	3000~5000 MHz	35	45	-	dB	
	5000~6000 MHz	32	40	-	dB	
VSWR (Input)	1805~1880 MHz	-	1.8	2.5	-	
VSWR (Output)	1805~1880 MHz	-	1.7	2.4	-	
Amplitude Balance |S21|/|S31|	1805~1880 MHz	-1.4	-0.5/+0.5	+1.4	dB	
Phase Balance (ΦS21-ΦS31)-180	1805~1880 MHz	-11	-6/+2	+11	deg.	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balance	150//12nH			ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ.x1.0typ.x0.5max.			mm	

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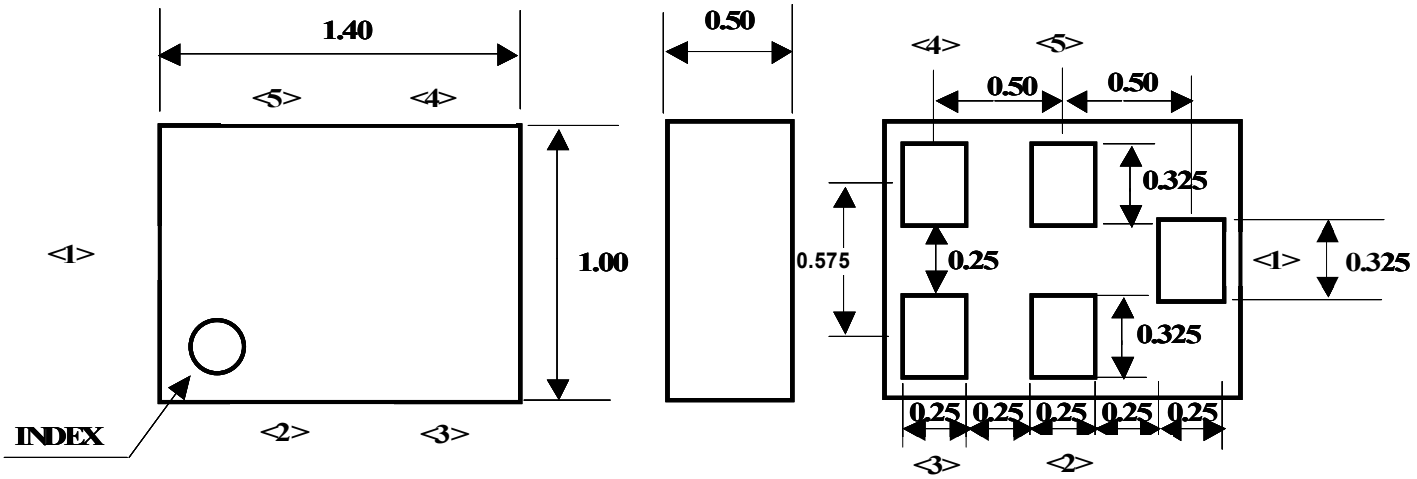
Dimension

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

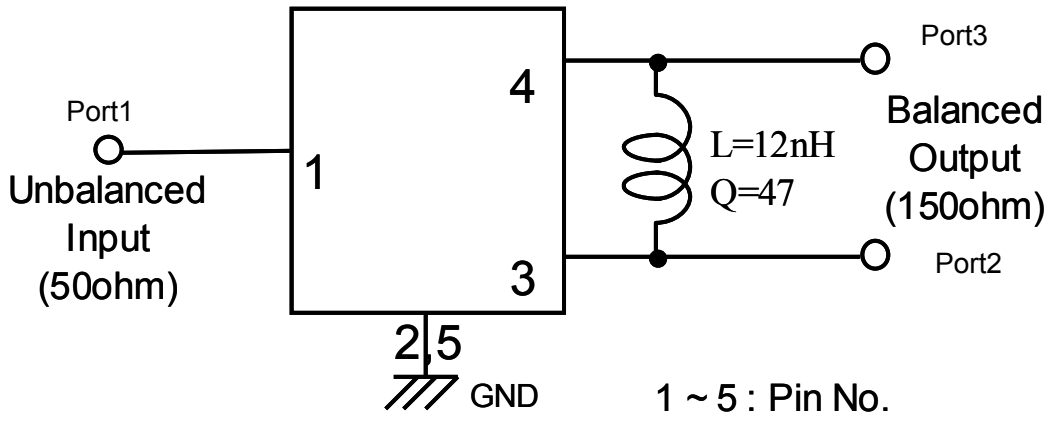


Unit: mm

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



Pb-free

RoHS

MSL1

* Pb Free Part

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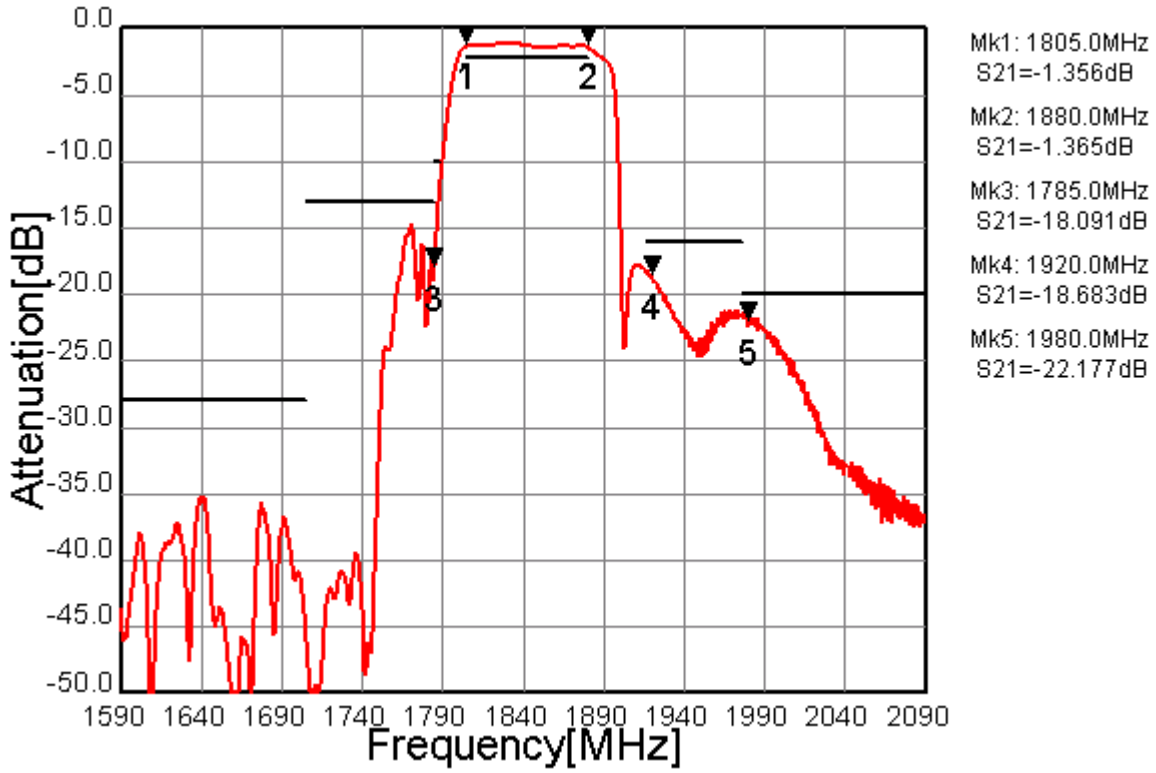

Fig.1 Pass-band Characteristic

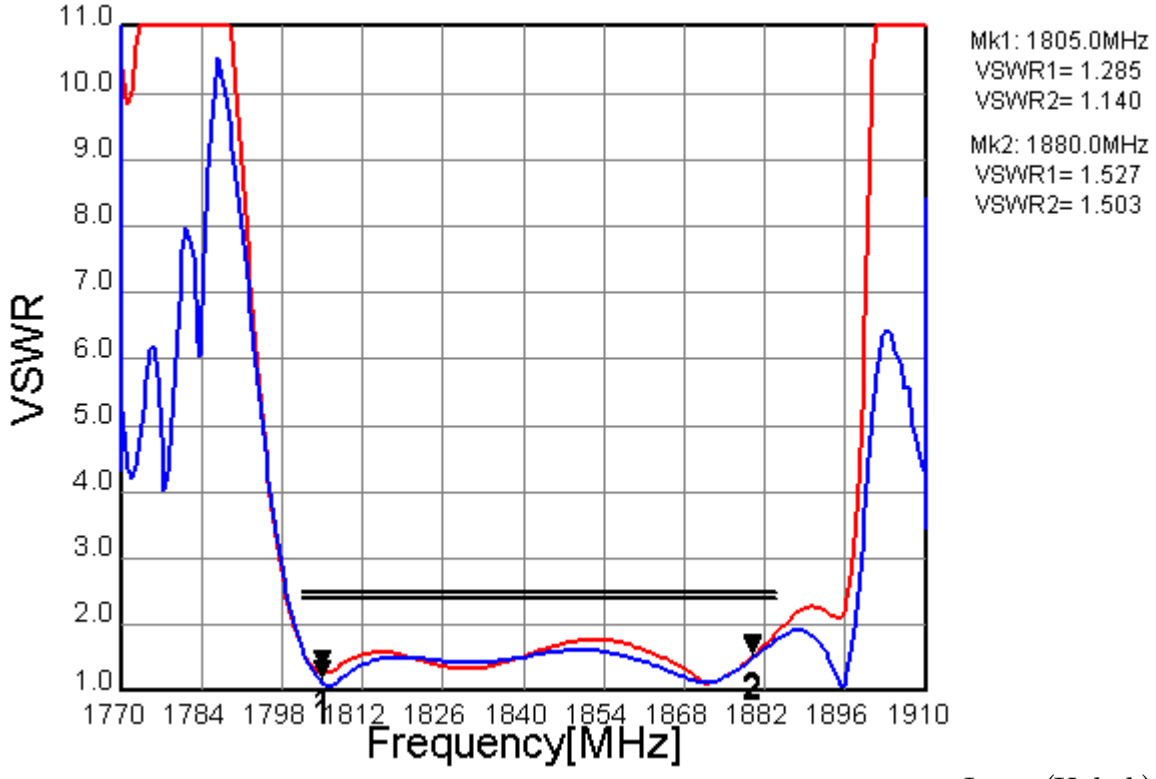

Fig.2 VSWR

Pb-free

RoHS

MSL1

* Pb Free Part

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Part Number	FAR-F6KB-1G8425-B4GA	Version 8.0h	

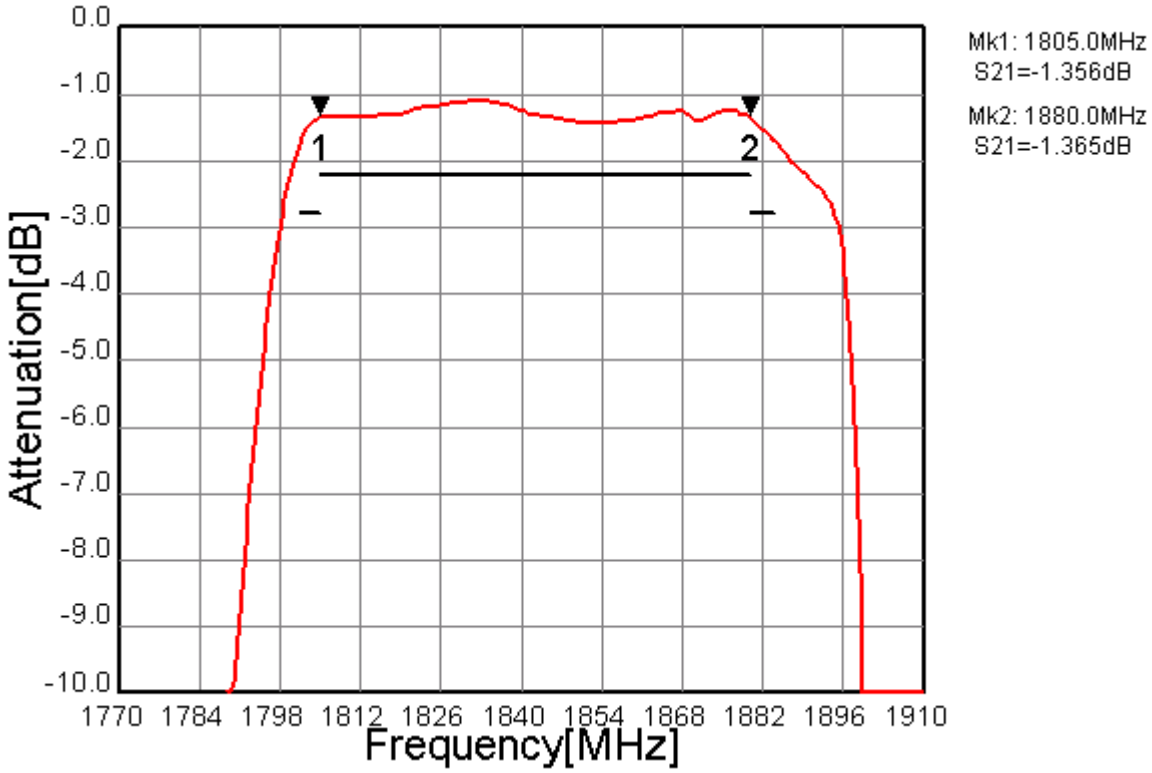

Fig.3 In-band Characteristic

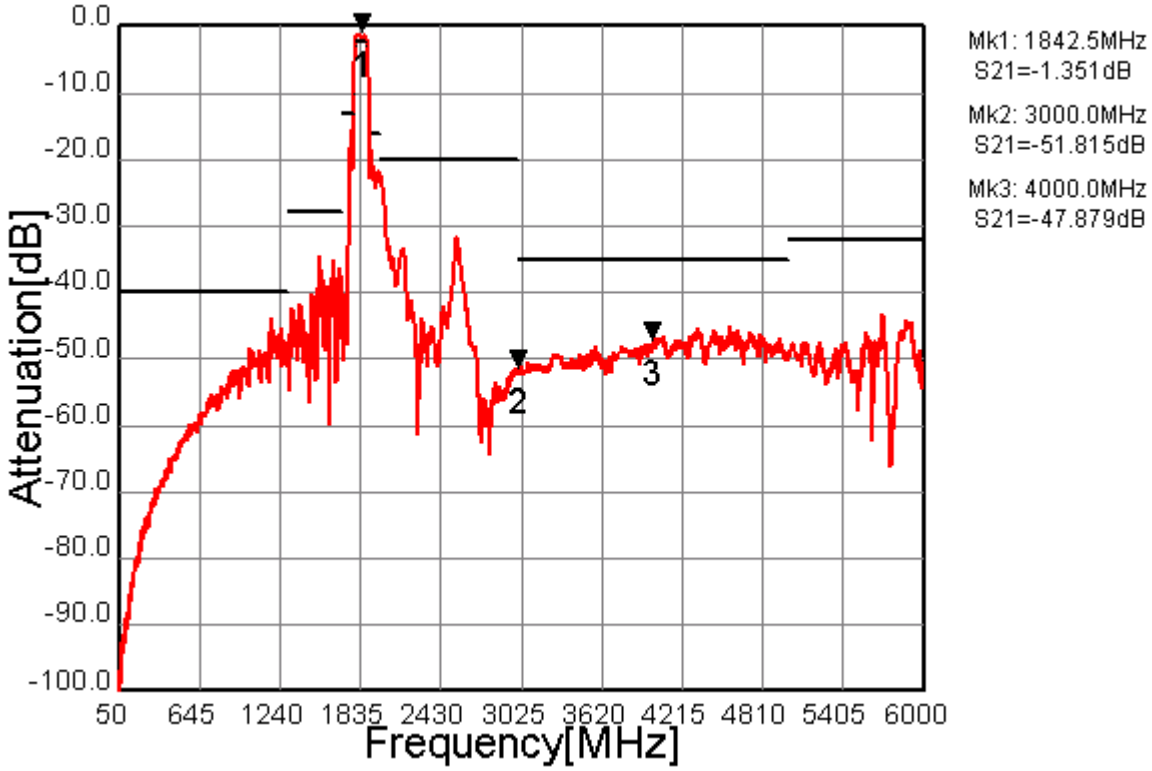

Fig.4 Wide-band Characteristic

Pb-free
RoHS
MSL1
* Pb Free Part

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Part Number	FAR-F6KB-1G8425-B4GA	Version 8.0h	

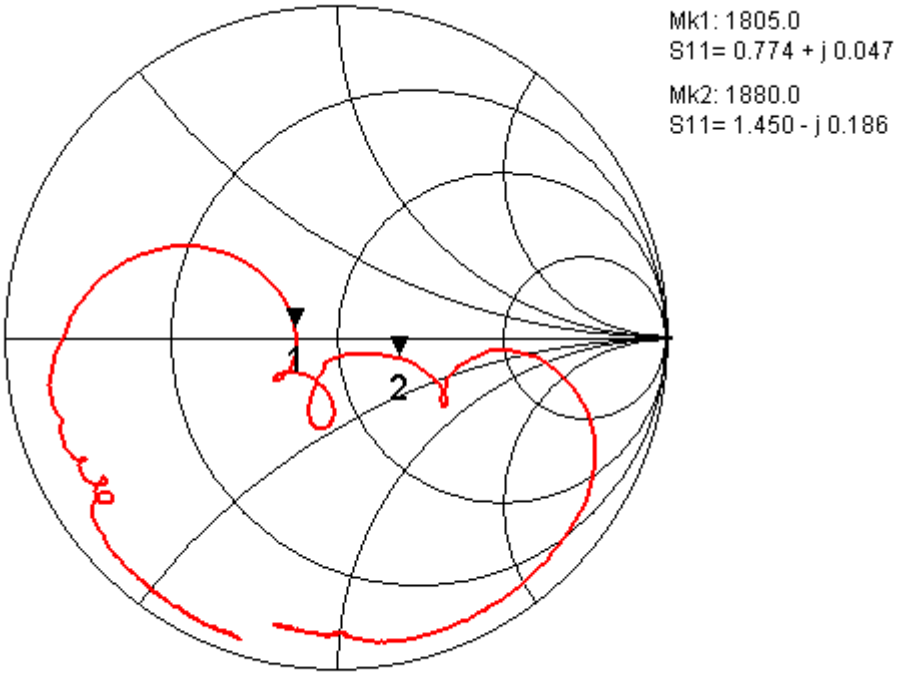

Fig.5 Input Impedance (Unbalance)

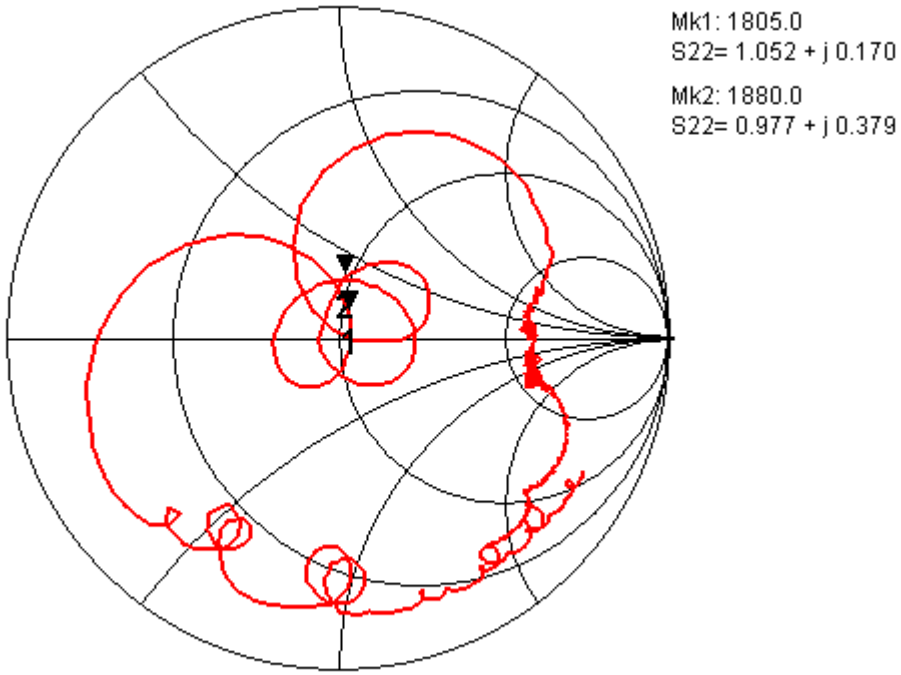

Fig.6 Output Impedance (Balance)

Pb-free
RoHS
MSL1
* Pb Free Part

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Part Number	FAR-F6KB-1G8425-B4GA	Version 8.0h	

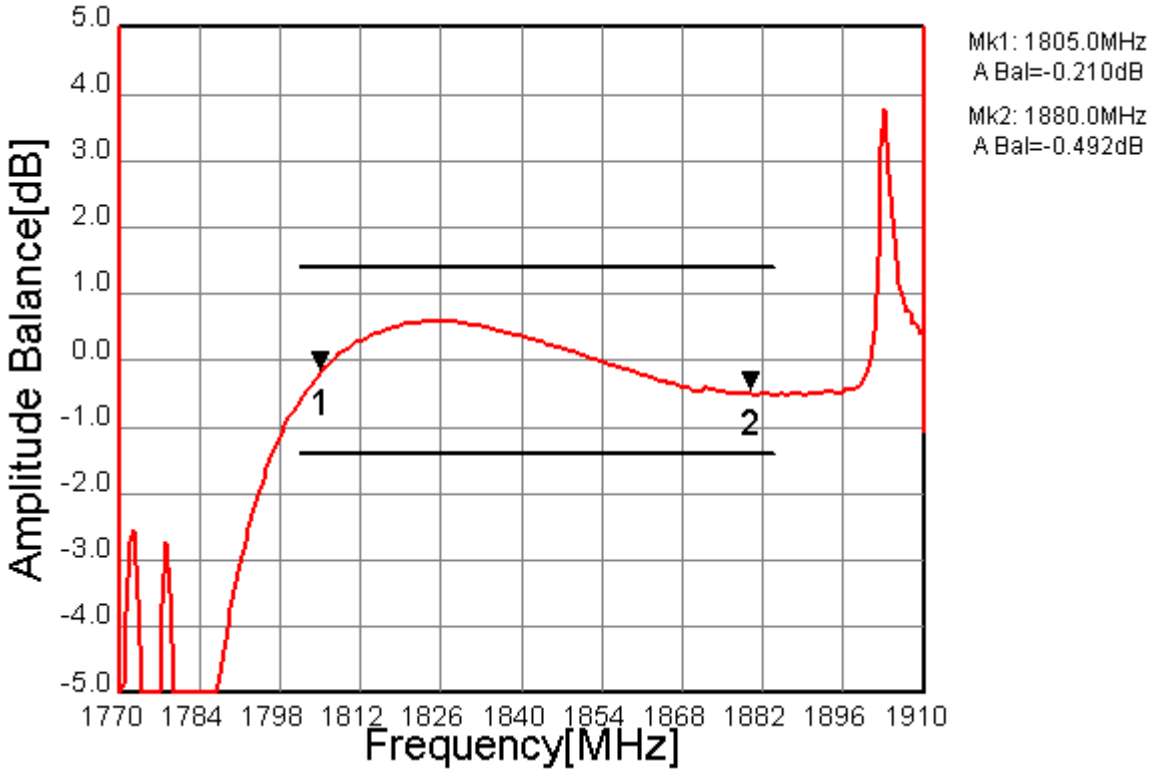

Fig.7 Amplitude Balance

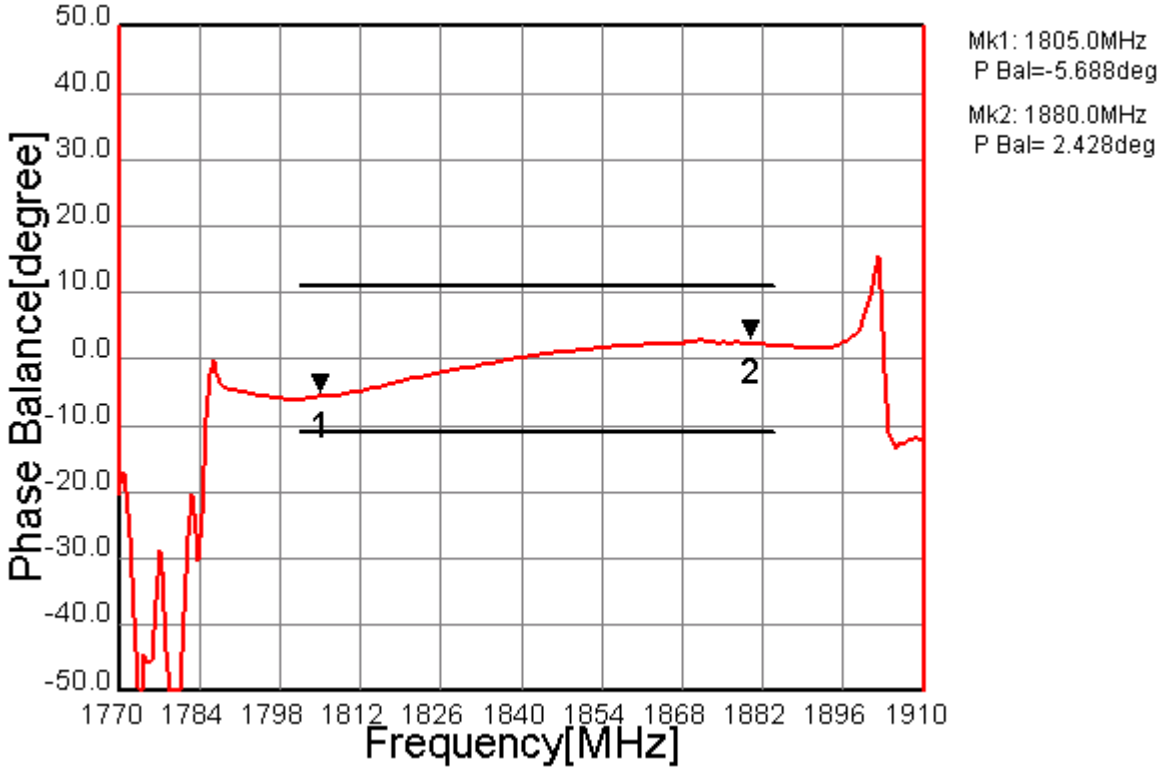

Fig.8 Phase Balance