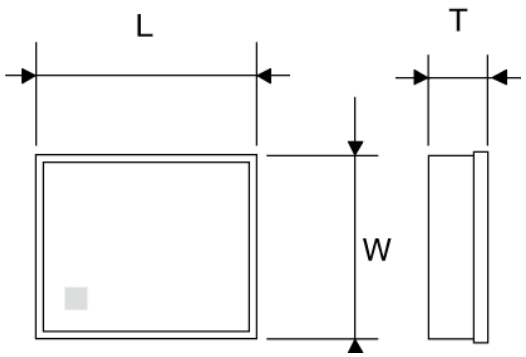
Spec Sheet

SAW Filter

FAR-F5KY-942M50-B4UW



Features

- Item Summary

  W-CDMA / LTE , Rx, 504

- Lifecycle Stage

  Mass Production

- Standard packaging quantity (minimum)

  Taping Embossed 3000 , 15000pcs

Products characteristics table

Temperature Range	-30 to +85℃
Band(3GPP)	B8
Use	WCDMA / LTE
Transmitting / Receiving	Rx Filter
Insertion Loss	2.0dB
Attenuation	57dB
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

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

RoHS

MSL1

* Pb Free Part

Customer Name	**Standard Specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	BandVIII Rx	Date	March 31, 2010
Part Number	FAR-F5KY-942M50-B4UW	Version 3.1c	

Table 1 Filter1 Electrical Specification

Parameter	Condition (MHz)	Specification Ver.3.1c			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	925 - 960	-	2.0	3.0	dB	@927.4 - 957.6MHz
Amplitude ripple	925 - 960	-	0.7	2	dB	@927.4 - 957.6MHz
Input VSWR	925 - 960	-	1.8	2.2	dB	@927.4 - 957.6MHz
Output VSWR	925 - 960	-	1.9	2.2	dB	@927.4 - 957.6MHz
Attenuation	10 - 880	50	67	-	dB	
	880 – 915	51	57	-	dB	@882.4-912.6MHz
	1045 - 1750	40	57	-	dB	
	1750 - 4810	35	57	-	dB	
Amplitude Balance (|S21/S31|)	925 - 960	-1	-0.3/ +0.2	+1	dB	@927.4 - 957.6MHz
Phase Balance ((ΦS21-ΦS31)+180)	925 - 960	-10	-3/+2	+10	deg.	@927.4 - 957.6MHz
Operating temperature range		-30~ +85			℃	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100			ohm	

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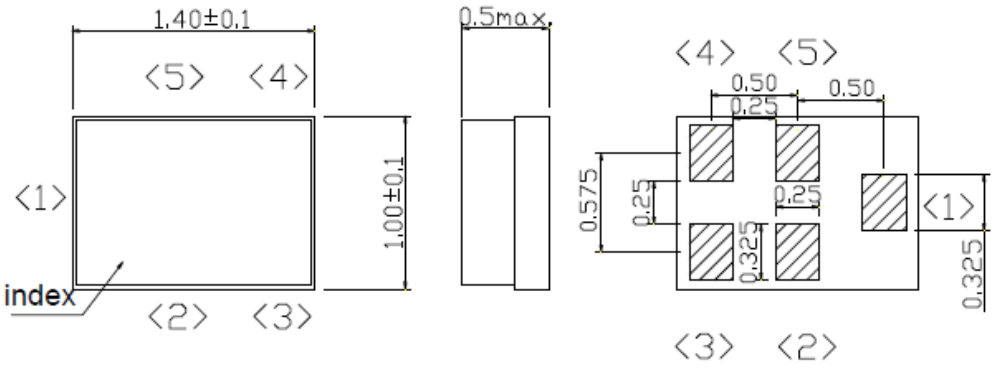
Part Number	FAR-F5KY-942M50-B4UW	Version 3.1c	

Dimensions

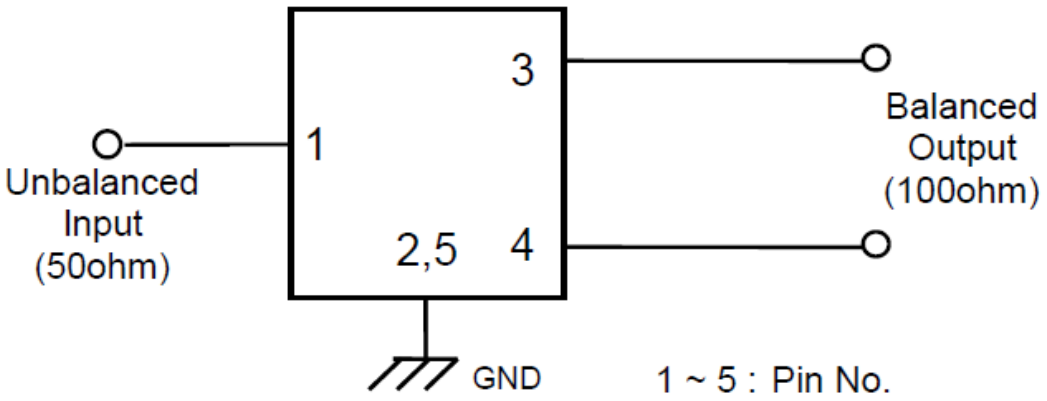
Device size: 1.4mmtyp. x 1.0mmtyp. x 0.5mmmax.



Unit : mm

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

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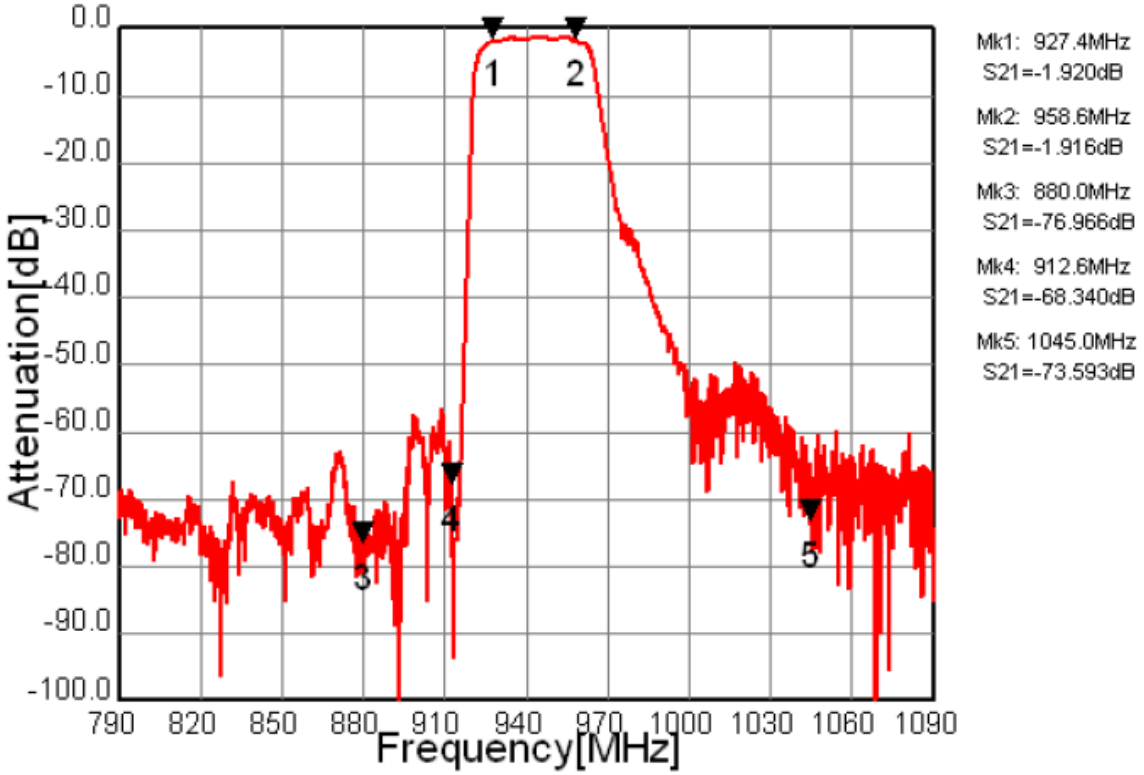

Fig.1 Pass-band Characteristic

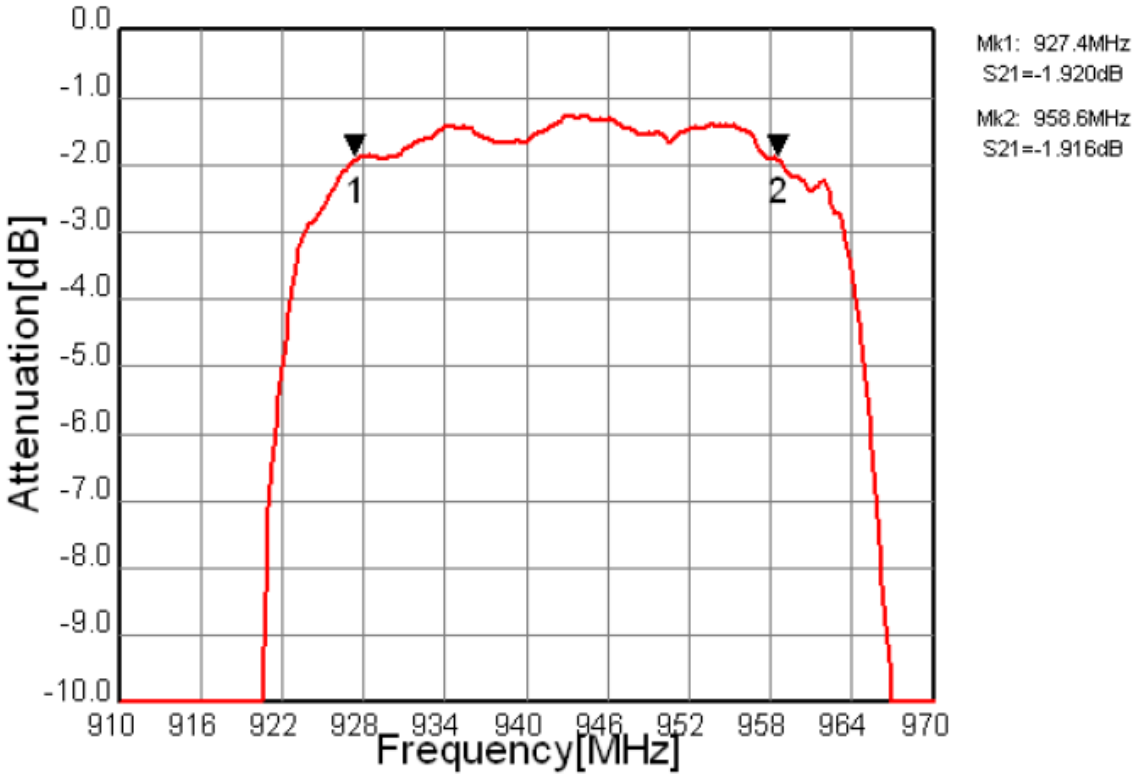

Fig.2 In-band Characteristic

Pb-free

RoHS

MSL1

* Pb Free Part

Customer Name	**Standard Specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	BandVIII Rx	Date	March 31, 2010
Part Number	FAR-F5KY-942M50-B4UW	Version 3.1c	

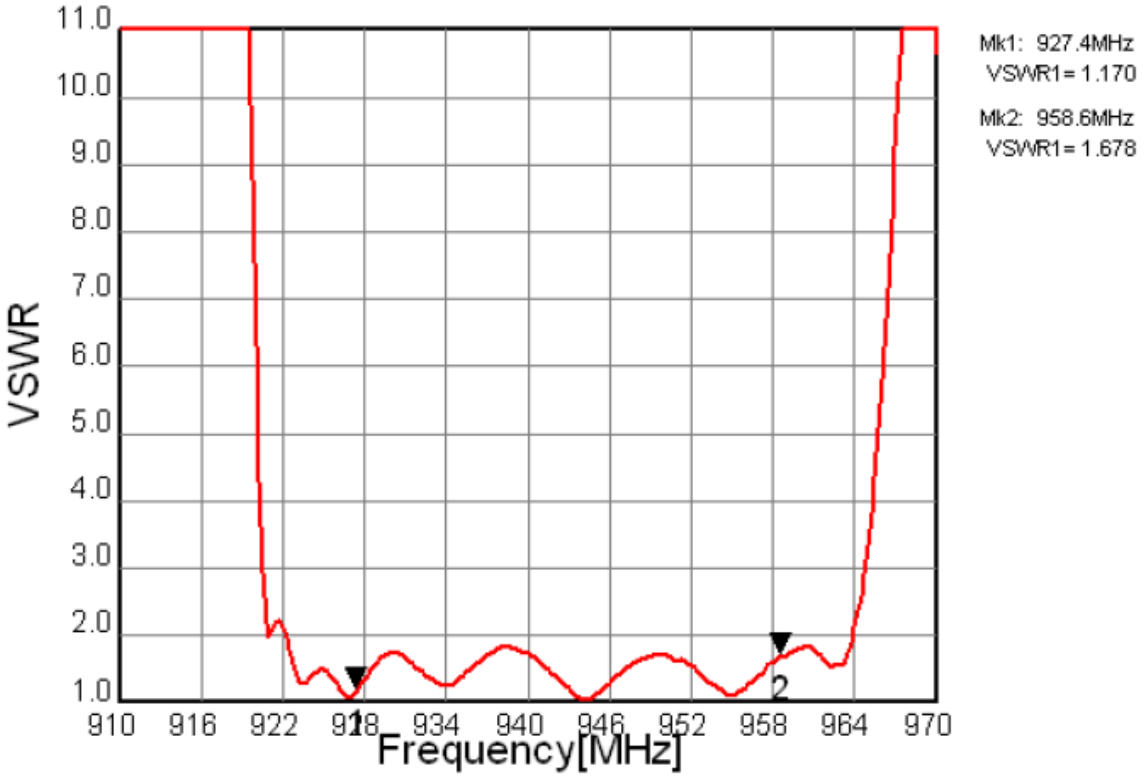

Fig.3 VSWR (INPUT)

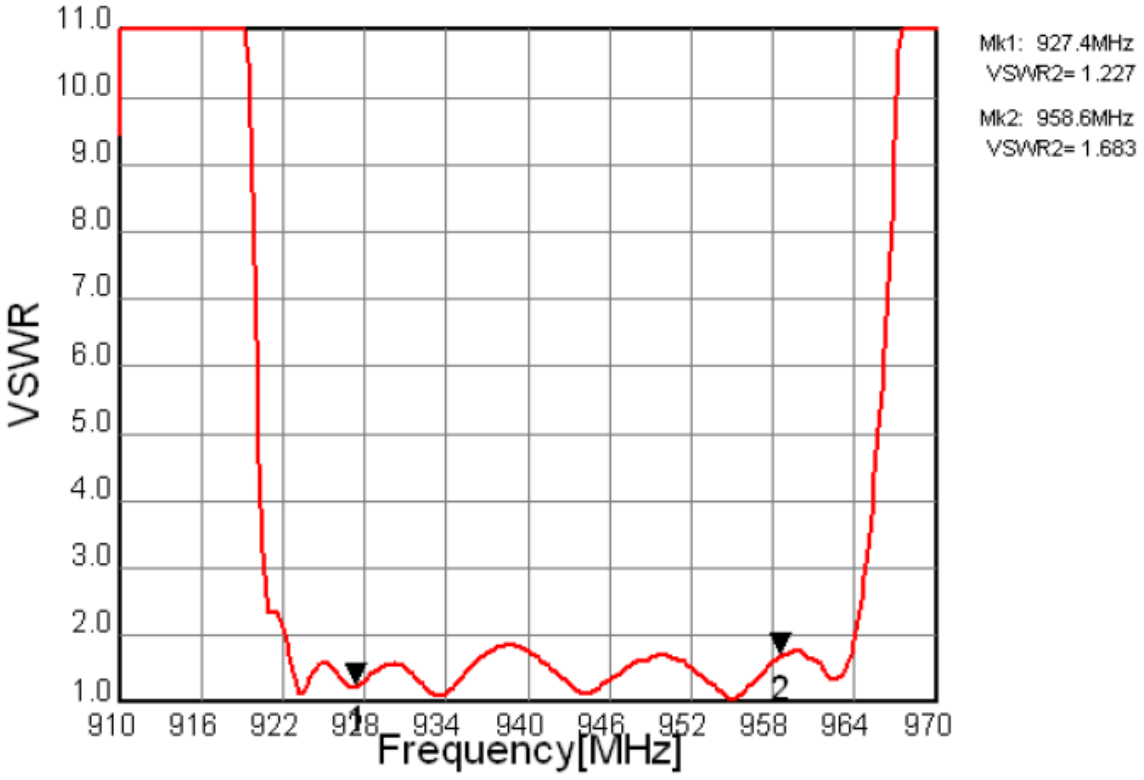

Fig.4 VSWR (OUTPUT)

Customer Name	**Standard Specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	BandVIII Rx	Date	March 31, 2010
Part Number	FAR-F5KY-942M50-B4UW	Version 3.1c	

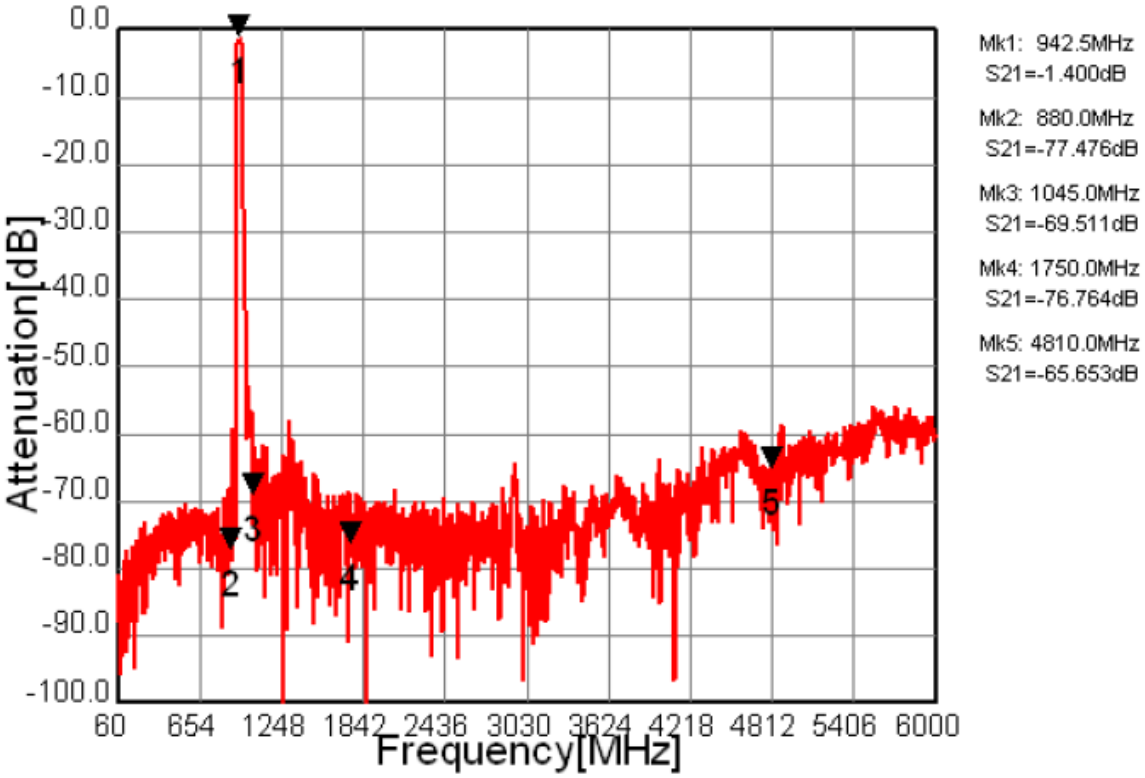

Fig.5 Wide-band Characteristic

Customer Name	**Standard Specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	BandVIII Rx	Date	March 31, 2010
Part Number	FAR-F5KY-942M50-B4UW	Version 3.1c	

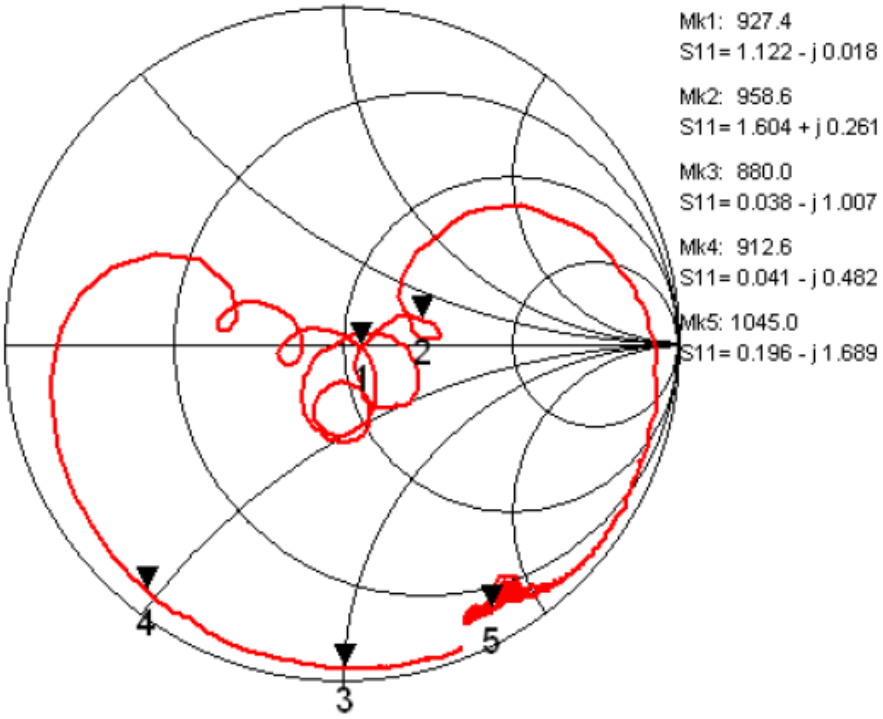

Fig.6 Impedance (Input)

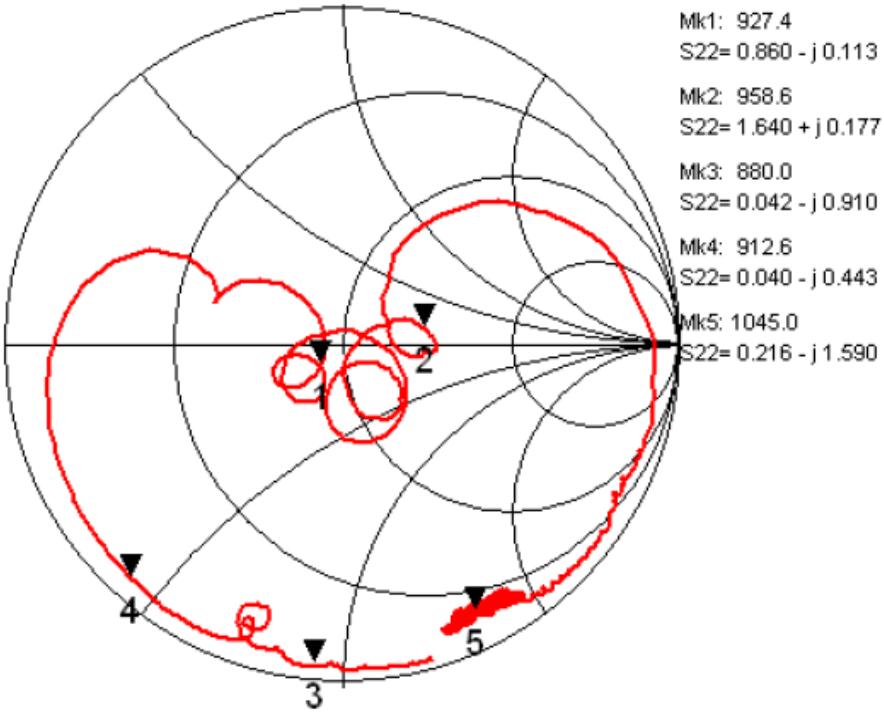

Fig.7 Impedance (Output)

Pb-free

RoHS

MSL1

* Pb Free Part

Customer Name	**Standard Specification**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
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Part Number	FAR-F5KY-942M50-B4UW	Version 3.1c	

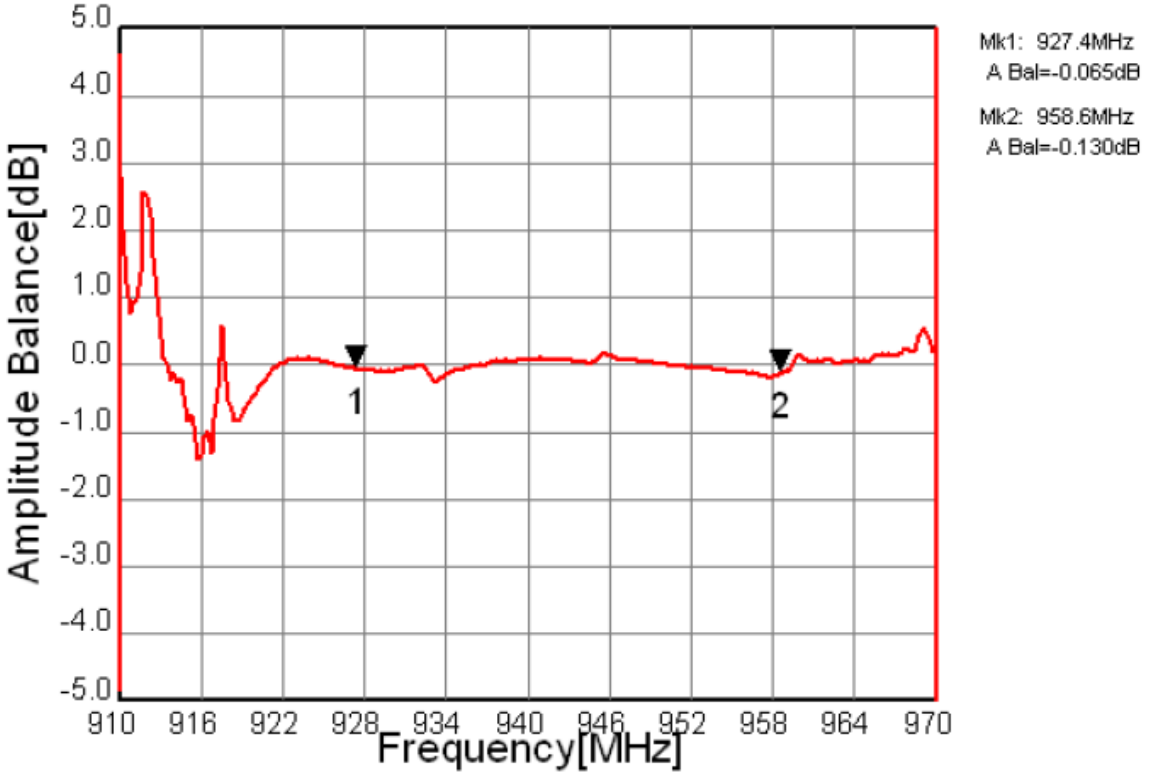

Fig.8 Amplitude balance

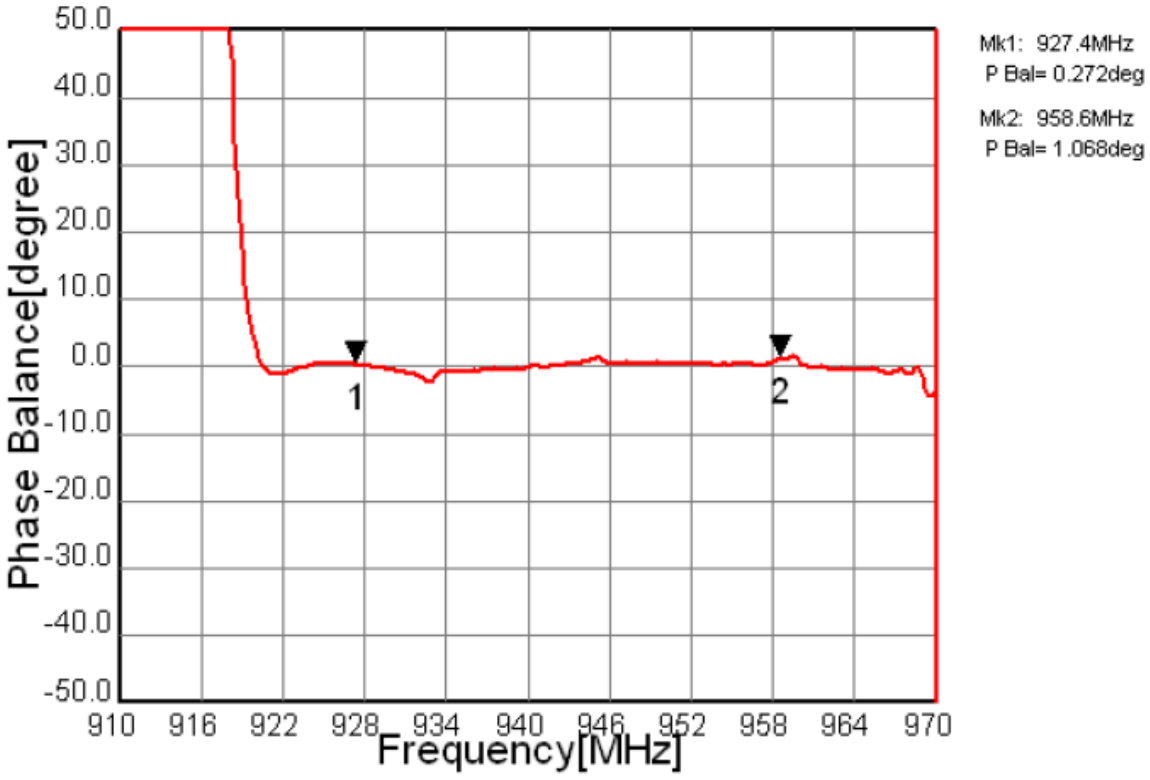

Fig.9 Phase balance