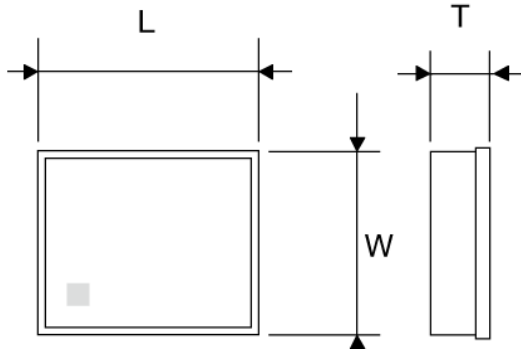


# SAW Filter

## FAR-F5QA-915M00-M2AK



### ■ Features

- Item Summary  
ISM900, 403
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 5000 , 15000pcs

### ■ Products characteristics table

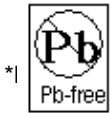
Temperature Range	-30 to +85°C
Use	ISM900
Insertion Loss	1.8dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

### ■ External Dimensions

L	1.1mm +0.1:-0.1
W	0.9mm +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.



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	ISM900 (50/50ohm Unbalance)	Date	March 31, 2010
Part Number	FAR-F5QA-915M00-M2AK	Version 2.0 b	

**Table 1.Electrical specifications**

Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	902-928	-	1.8	2.2	dB	
Ripple	902-928	-	0.6	1.2	dB	
Return Loss	902-928	10	13	-	-	
Absolute attenuation	DC-702	49	57	-	dB	
	738-764	47	55	-	dB	
	820-846	42	52	-	dB	
	990-1010	42	47	-	dB	
	1072-1092	44	52	-	dB	
	1128-1804	38	45	-	dB	
	1804-1856	36	45	-	dB	
	1856-3000	30	41	-	dB	
Grope delay Variation	902-928	-	30	60	ns	
PKG	-	1.1typ.x0.9typ.x0.5max			mm	
Operating temperature		-30 to +85			°C	

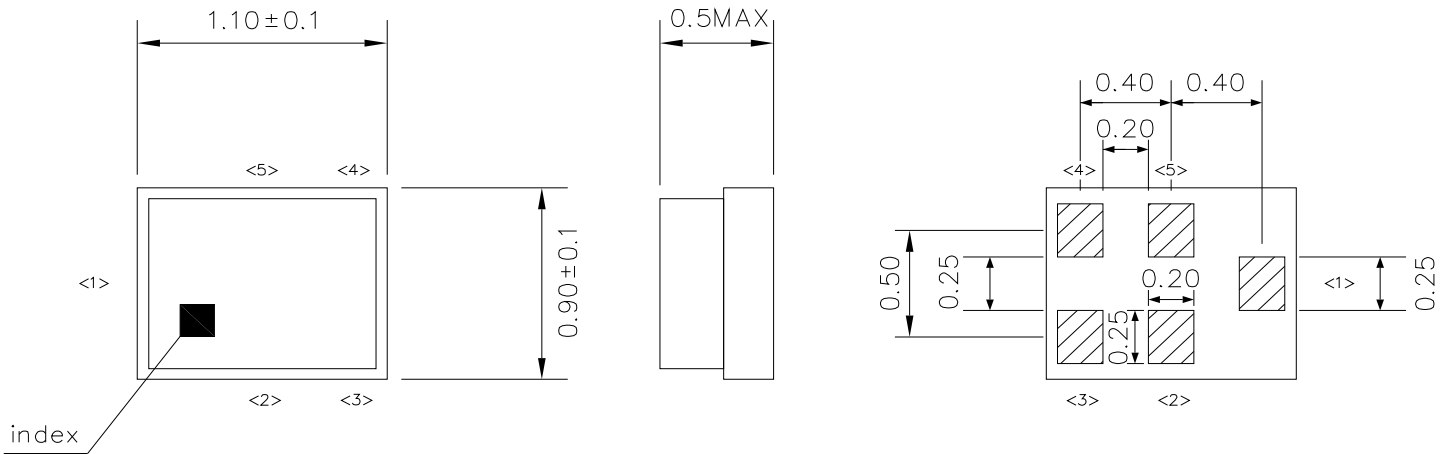


MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	ISM900 (50/50ohm Unbalance)	Date	March 31, 2010
Part Number	FAR-F5QA-915M00-M2AK	Version 2.0 b	

**Dimensions**

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

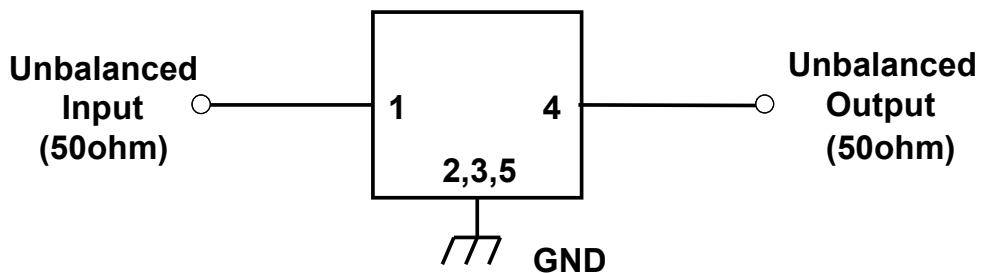


Unit : mm

**Pin Configuration**

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

**Evaluation Circuit**





MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	ISM900 (50/50ohm Unbalance)	Date	March 31, 2010
Part Number	FAR-F5QA-915M00-M2AK	Version 2.0 b	

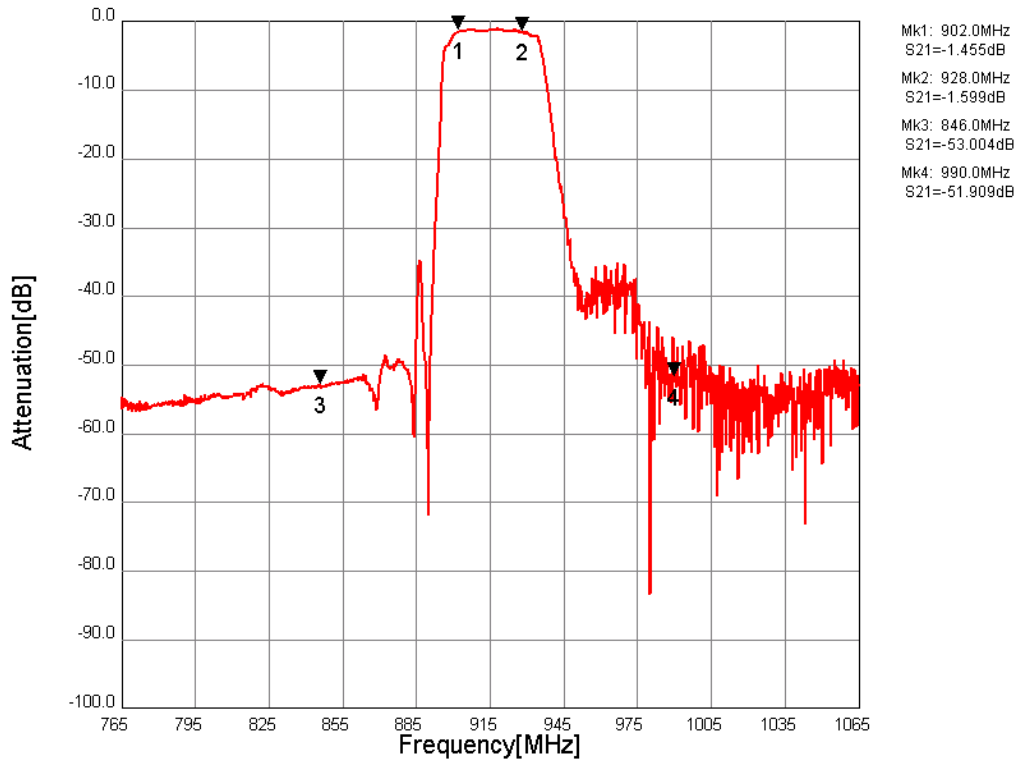


Fig.1 Pass-band Characteristic

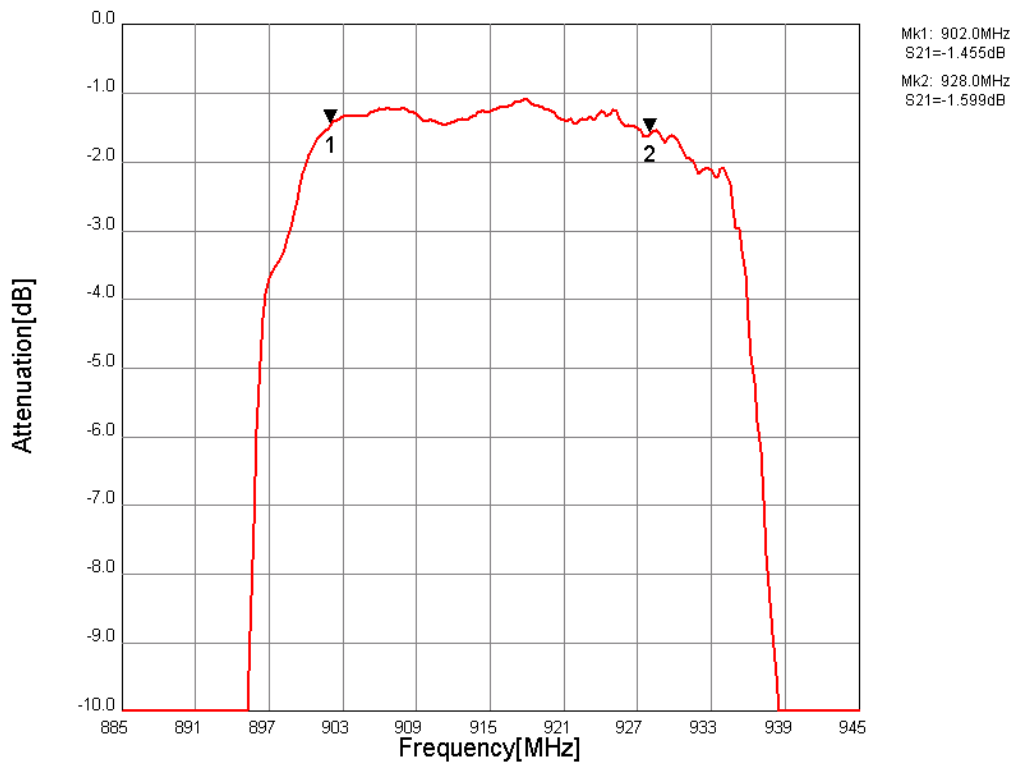
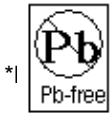


Fig.2 In-band Characteristic

**TAIYO YUDEN**



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	ISM900 (50/50ohm Unbalance)	Date	March 31, 2010
Part Number	FAR-F5QA-915M00-M2AK	Version 2.0 b	

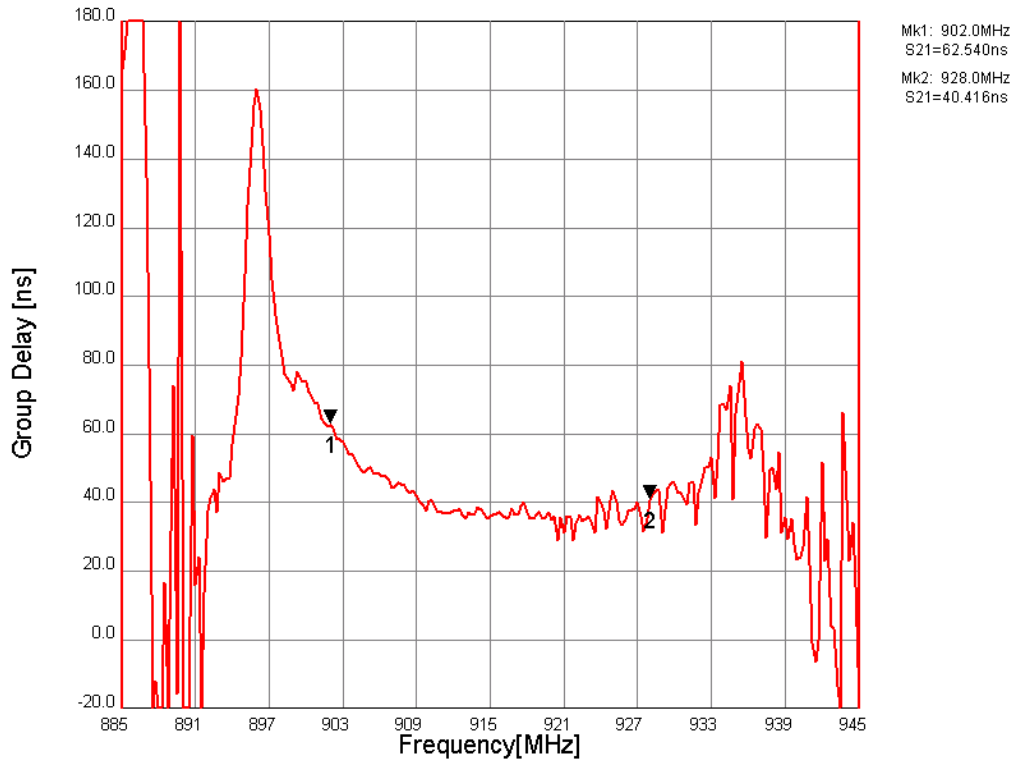


Fig.3 Group Delay

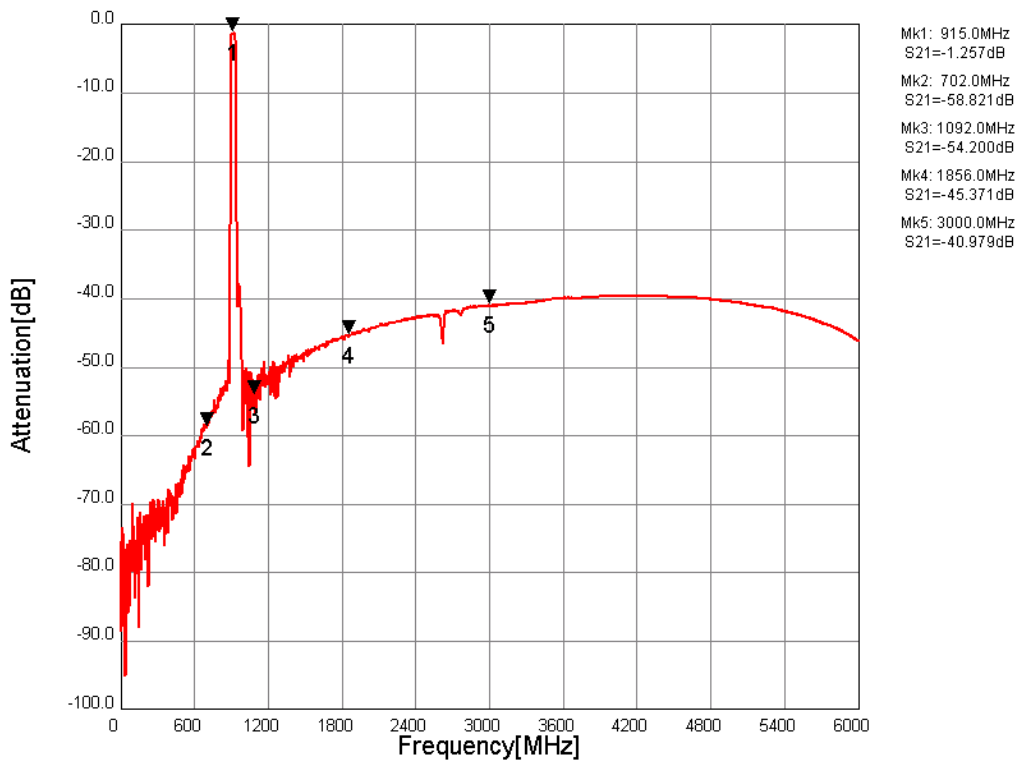
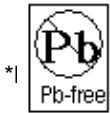


Fig.4 Wide-band Characteristic

**TAIYO YUDEN**



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	ISM900 (50/50ohm Unbalance)	Date	March 31, 2010
Part Number	FAR-F5QA-915M00-M2AK	Version 2.0 b	

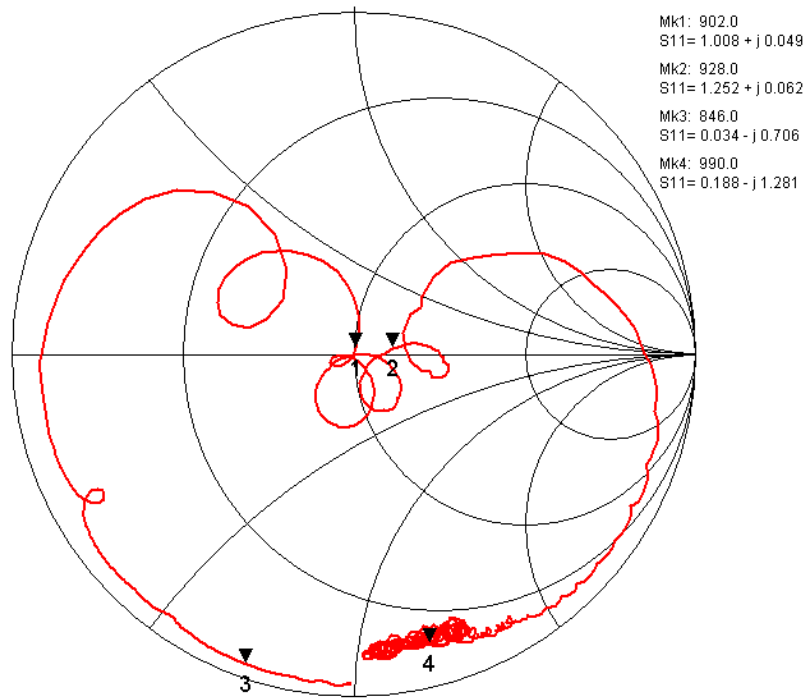


Fig.5 Impedance (S11)

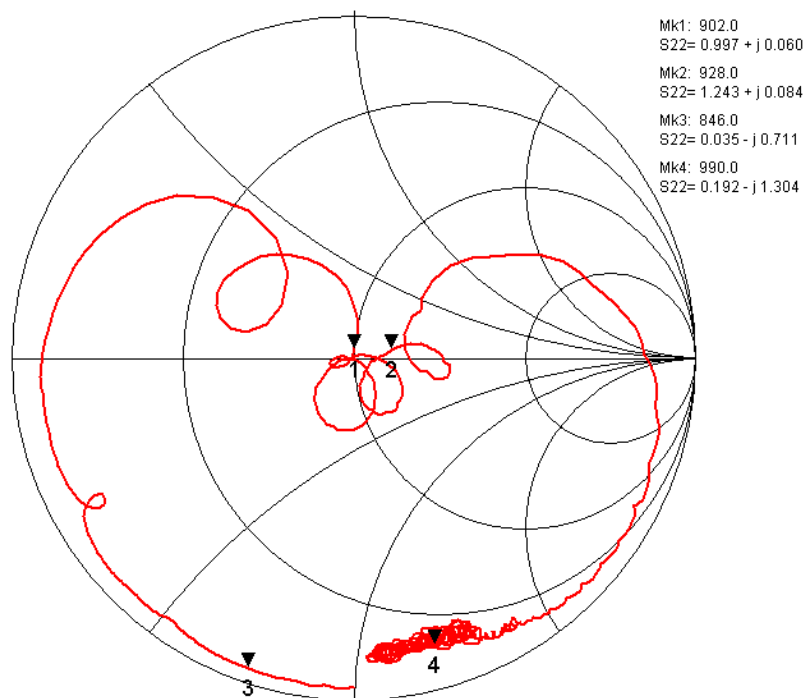
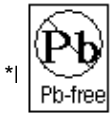


Fig.6 Impedance (S22)



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	ISM900 (50/50ohm Unbalance)	Date	March 31, 2010
Part Number	FAR-F5QA-915M00-M2AK	Version 2.0 b	

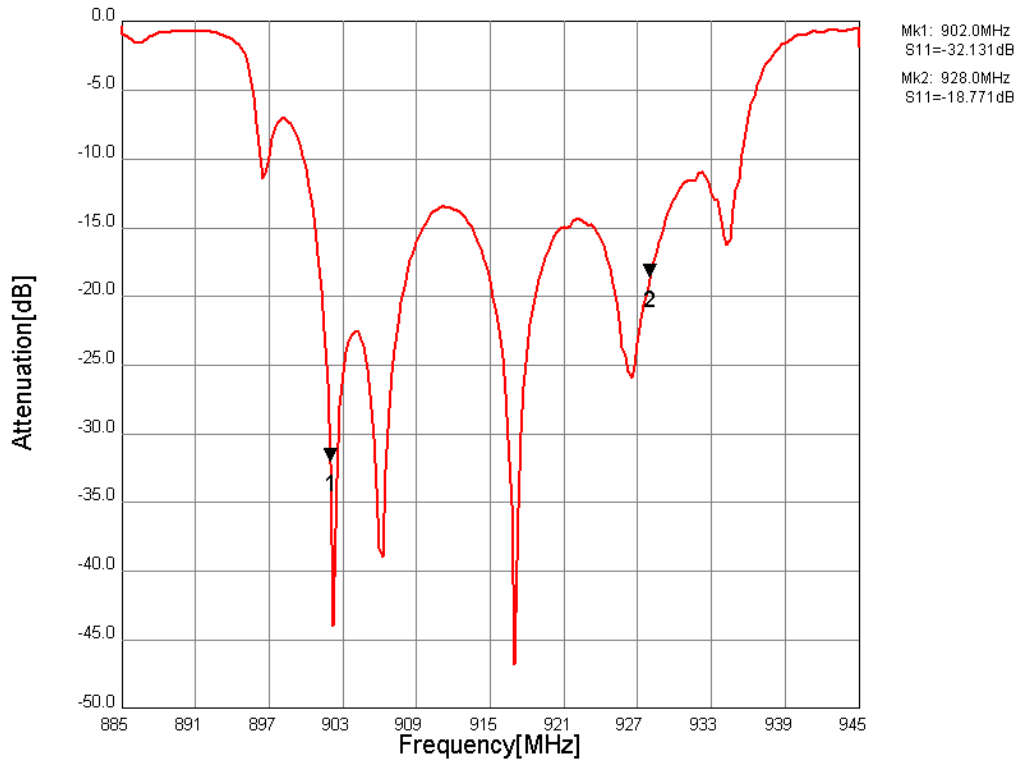


Fig.7 Return Loss(S11)

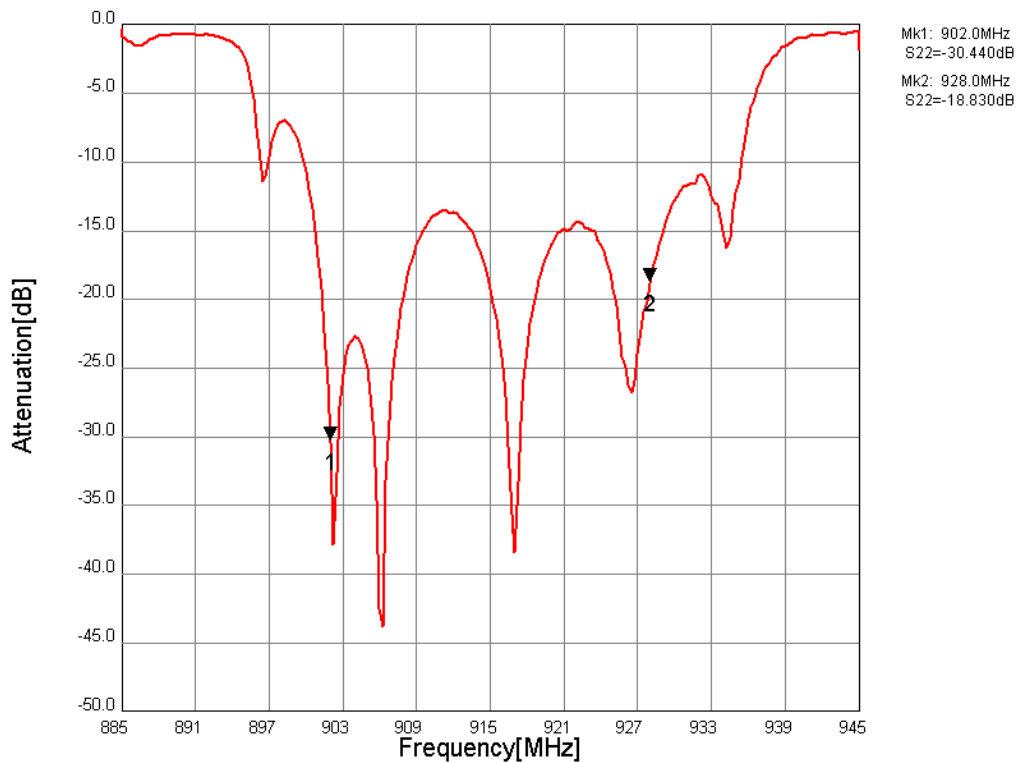


Fig.8 Return Loss(S22)