



MSL1

\* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	J-CDMA (B.W.27MHz + 6MHz) Tx	Date	March 31, 2010
Part Number	FAR-G5KL-911M50-D4XA	Version 4.1dd	

Table 1. Electrical specifications

Filter 1:JCDMA-Tx 27MHz(Passband : 898 ~ 925 MHz)						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
		Insertion Loss	898~925 MHz	-		
Ripple	898~925 MHz	-	0.5	1.6	dB	
VSWR	898~925 MHz	-	1.5	2.1	-	
attenuation	DC~720 MHz	40	53	-	dB	
	720~830 MHz	40	48	-	dB	
	843~870 MHz	46	54	-	dB	
	869~875 MHz	41	57	-	dB	
	940~2000 MHz	18	27	-	dB	
	2000~3000 MHz	24	37	-	dB	
Input Impedance	Unbalanced	50/50			Ohm	
Output Impedance						
Operating Temperature		-30 ~ +85			°C	
Device size		1.8typ.x1.4typ.x0.5 max.			mm	



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**Table 2. Electrical specifications**

Filter 2:JCDMA-Tx 6MHz(Passband : 824 ~ 830 MHz)						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
		Insertion Loss	824~830 MHz	-		
Ripple	824~830 MHz	-	0.4	1.5	dB	
VSWR	824~830 MHz	-	1.5	2.1	-	
attenuation	DC~720 MHz	35	40	-	dB	
	720~800 MHz	15	34	-	dB	
	843~870 MHz	28	34	-	dB	+25+/-2°C
		22	34	-	dB	
	869~875 MHz	35	46	-	dB	
	898~2000 MHz	31	42	-	dB	
	2000~3000 MHz	26	36	-	dB	
Input Impedance	Unbalanced	50/50			Ohm	
Output Impedance						
Operating Temperature		-30 ~ +85			°C	
Device size		1.8typ.x1.4typ.x0.5 max.			mm	



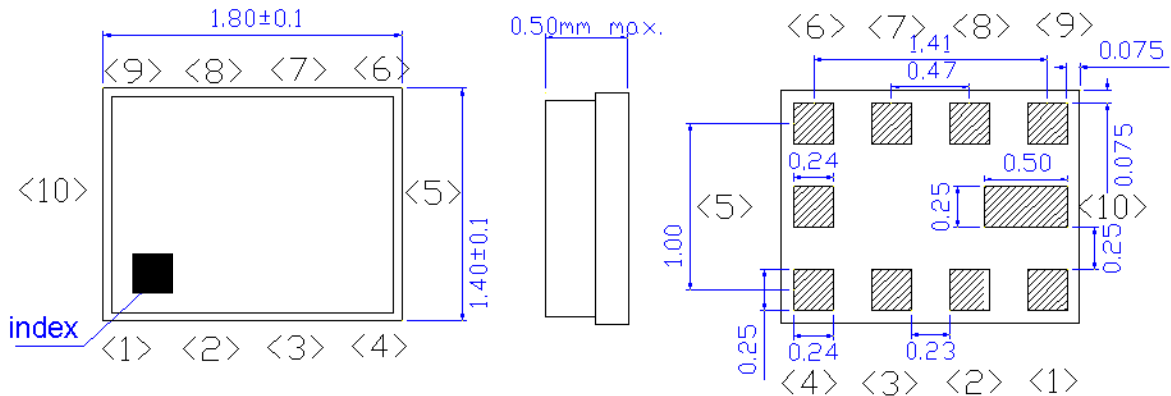
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### Dimensions

Device size: 1.8typ. x 1.4typ. x 0.5max.



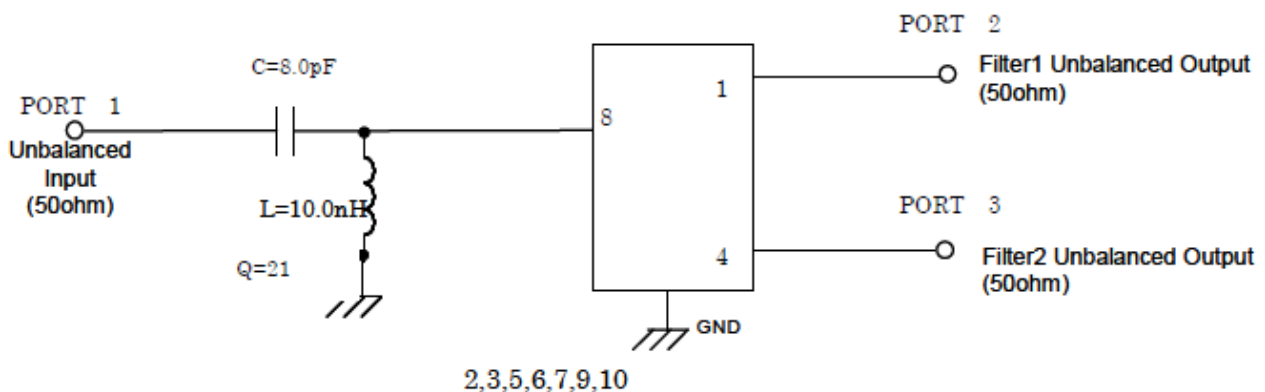
Unit: mm

### Pin Configuration

Pin No.	Pin name	Description
<1>	OUT	Filter1 output pin
<2>	GND	Ground
<3>	GND	Ground
<4>	OUT	Filter2 output pin
<5>	GND	Ground
<6>	GND	Ground
<7>	GND	Ground
<8>	IN	input pin
<9>	GND	Ground
<10>	GND	Ground

Filter No.	Passband(MHz)	System
1	898 ~ 925	JCDMA 27MHz
2	824 ~ 830	JCDMA 6MHz

### Test Condition





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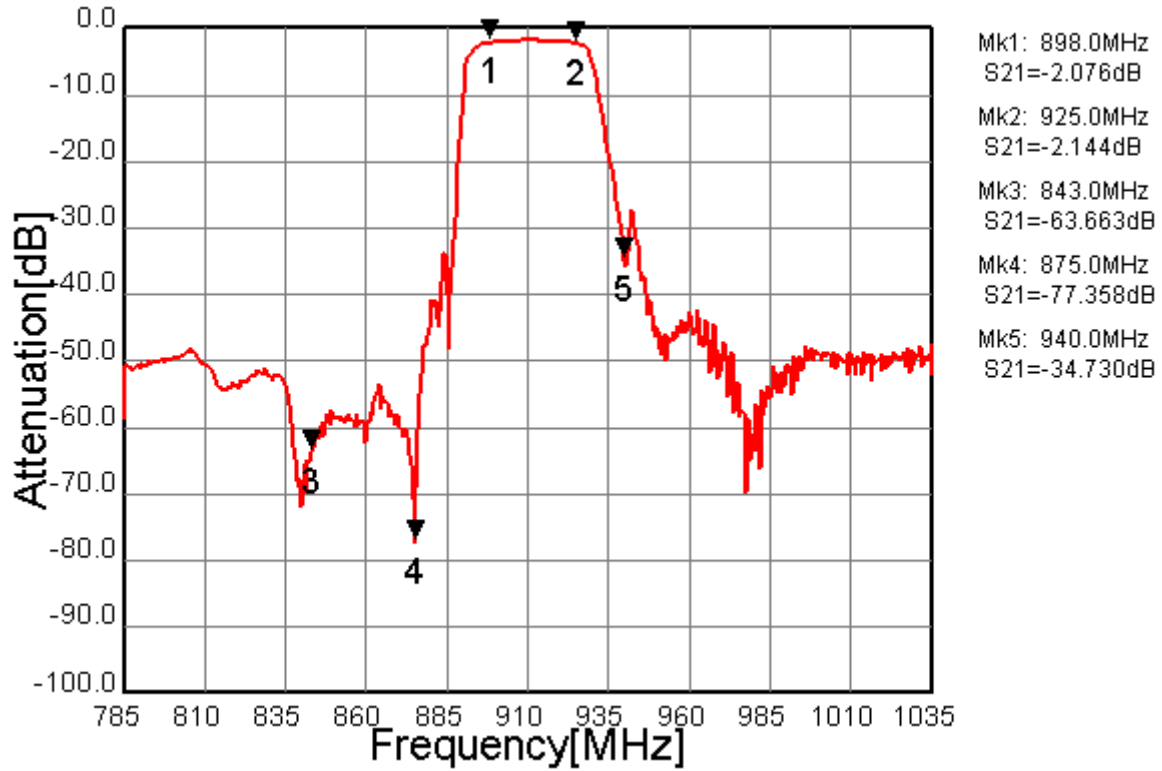


Fig.1 Pass-band Characteristic (Filter1)

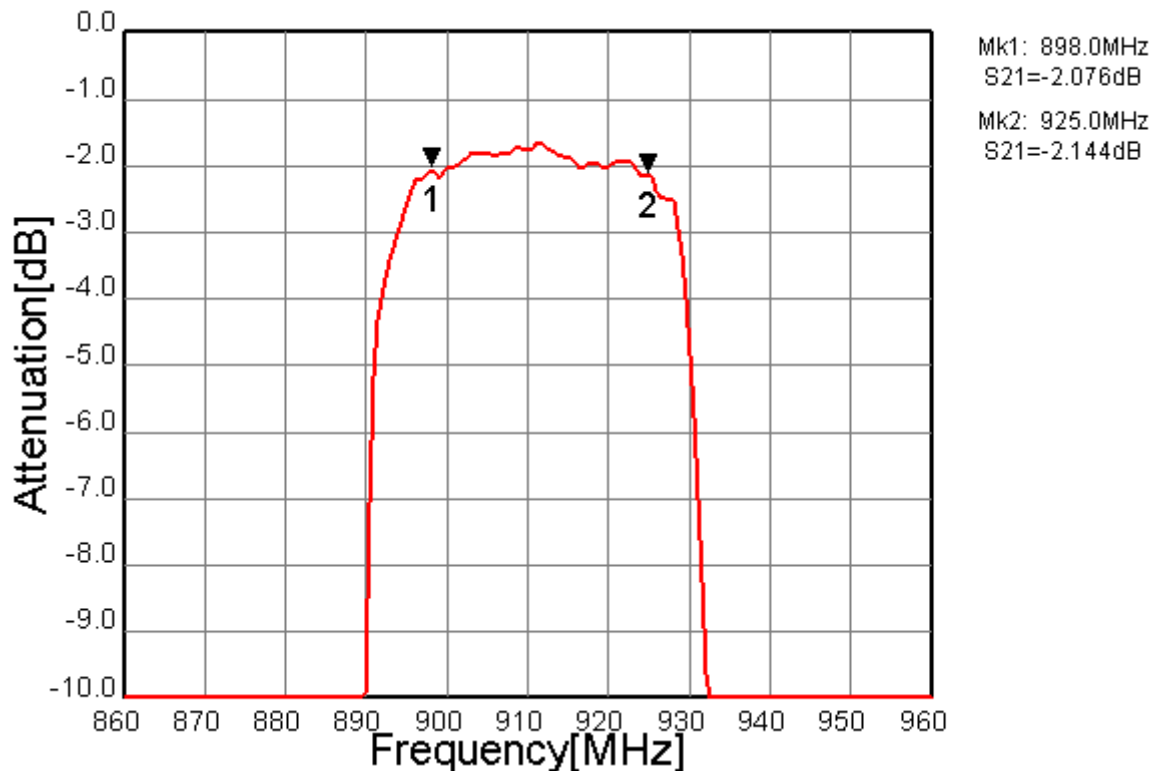


Fig.2 In-band Characteristic (Filter1)



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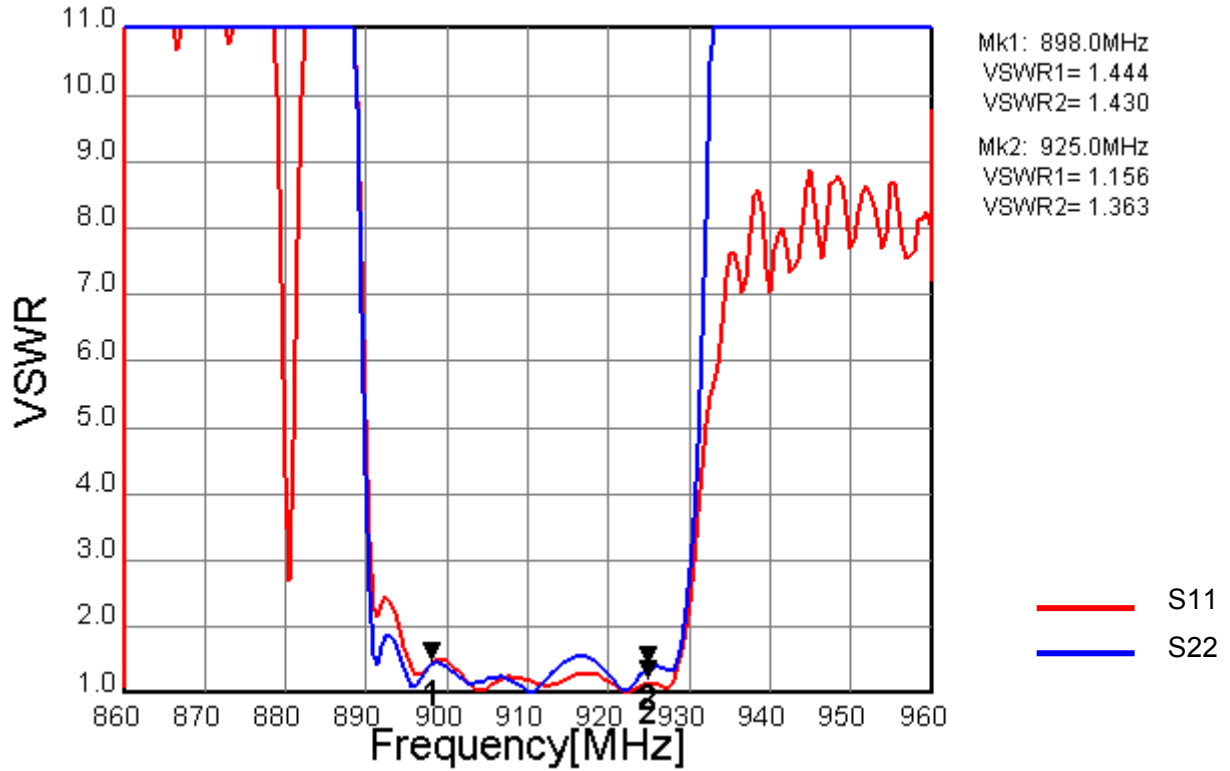


Fig.3 VSWR (Filter1)

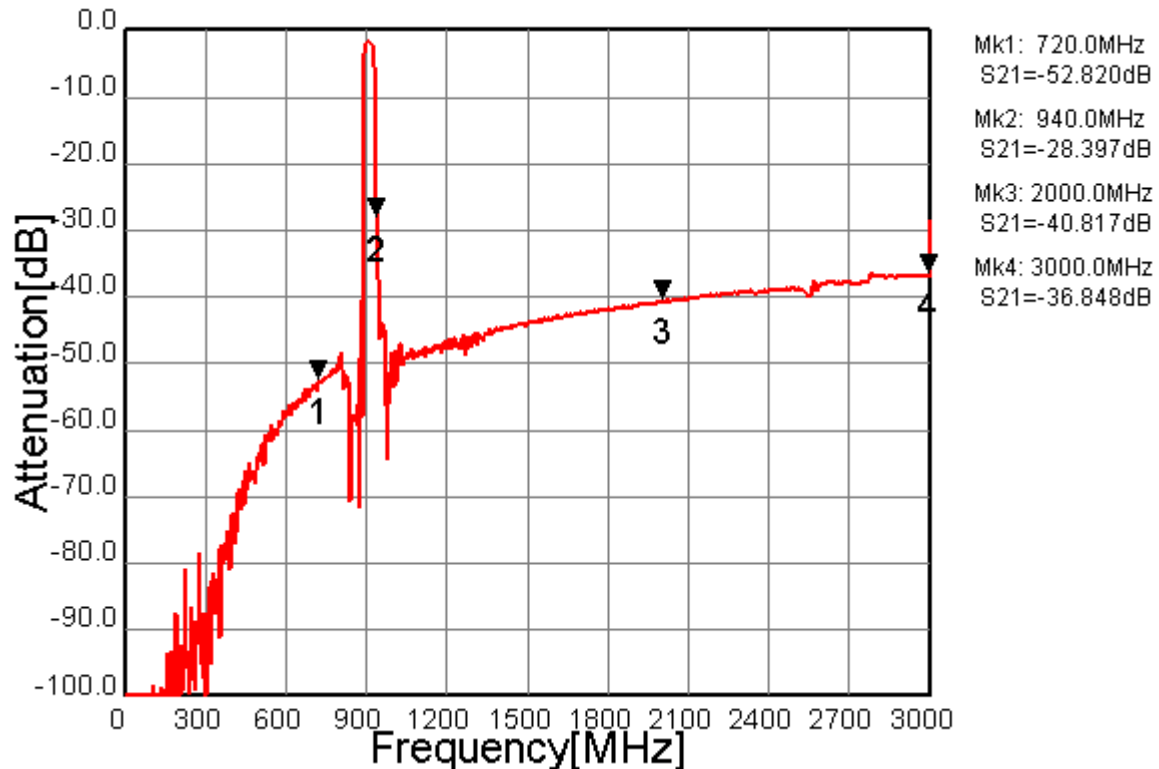


Fig.4 Wide-band Characteristic (Filter1)



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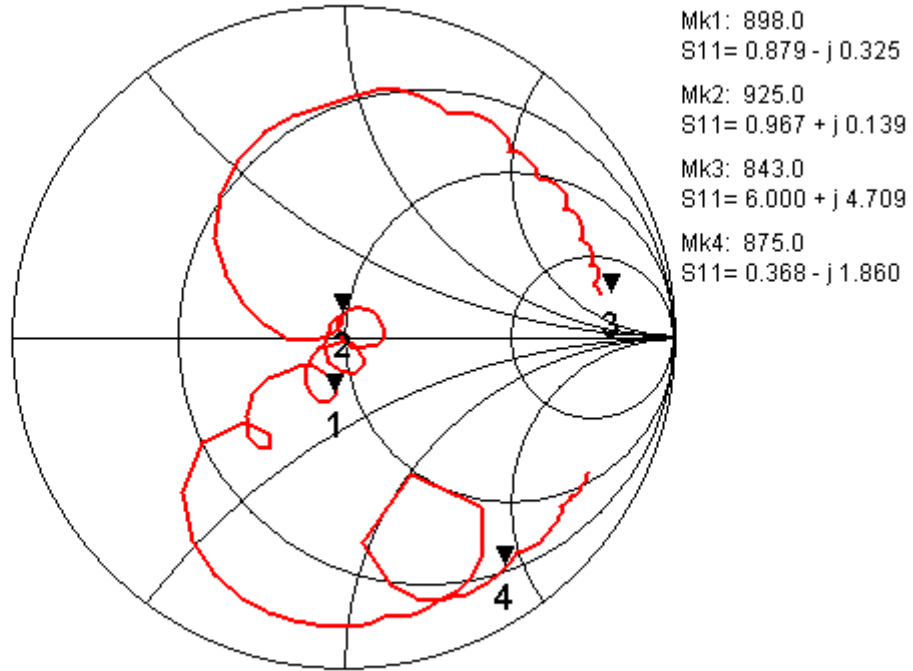


Fig.5 S11 Impedance (Filter1)

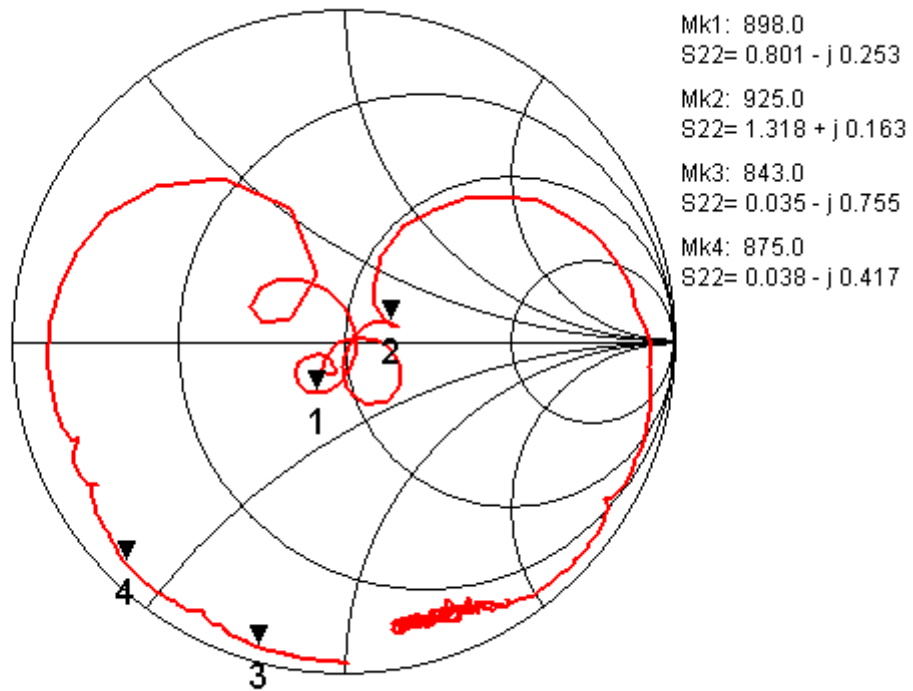


Fig.6 S22 Impedance (Filter1)



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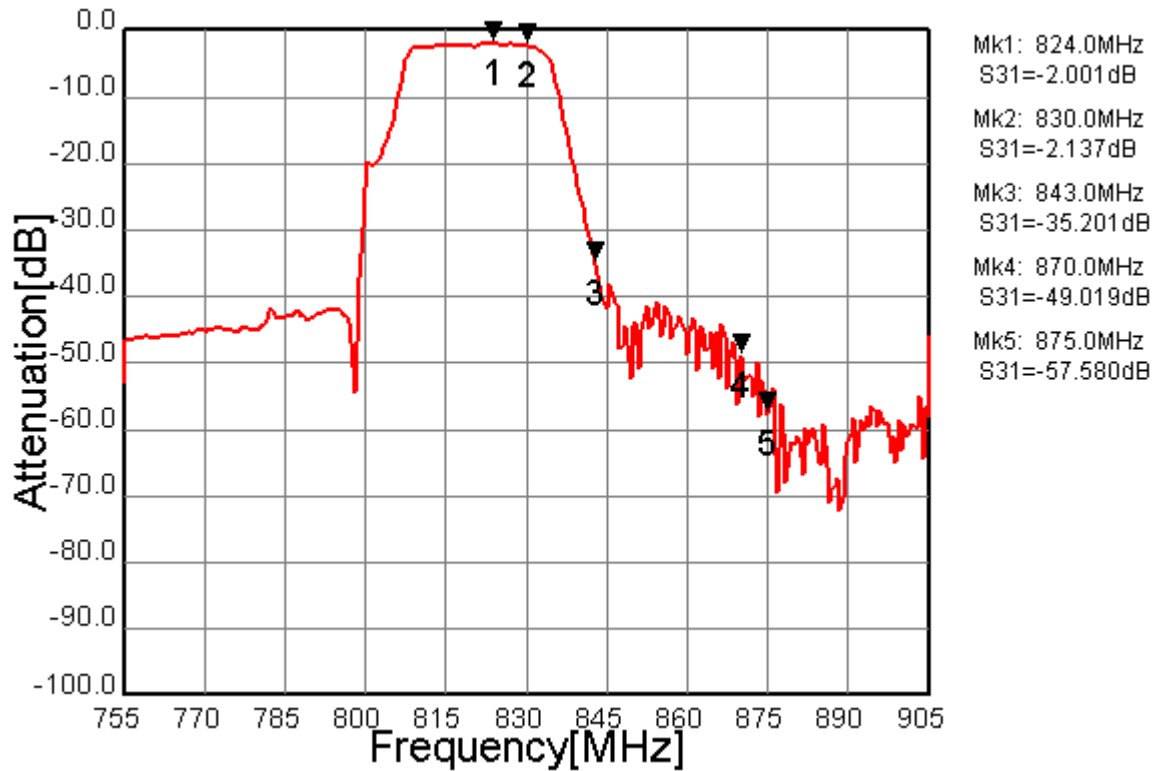


Fig.7 Pass-band Characteristic (Filter2)

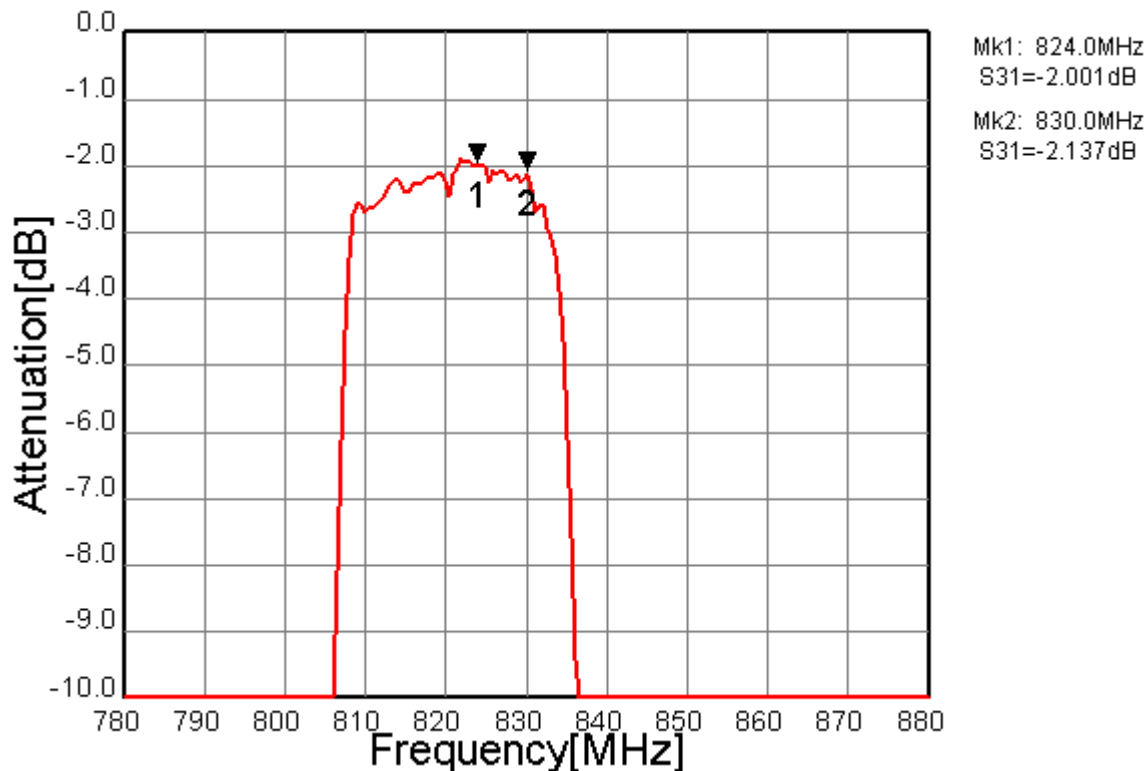


Fig.8 In-band Characteristics (Filter2)



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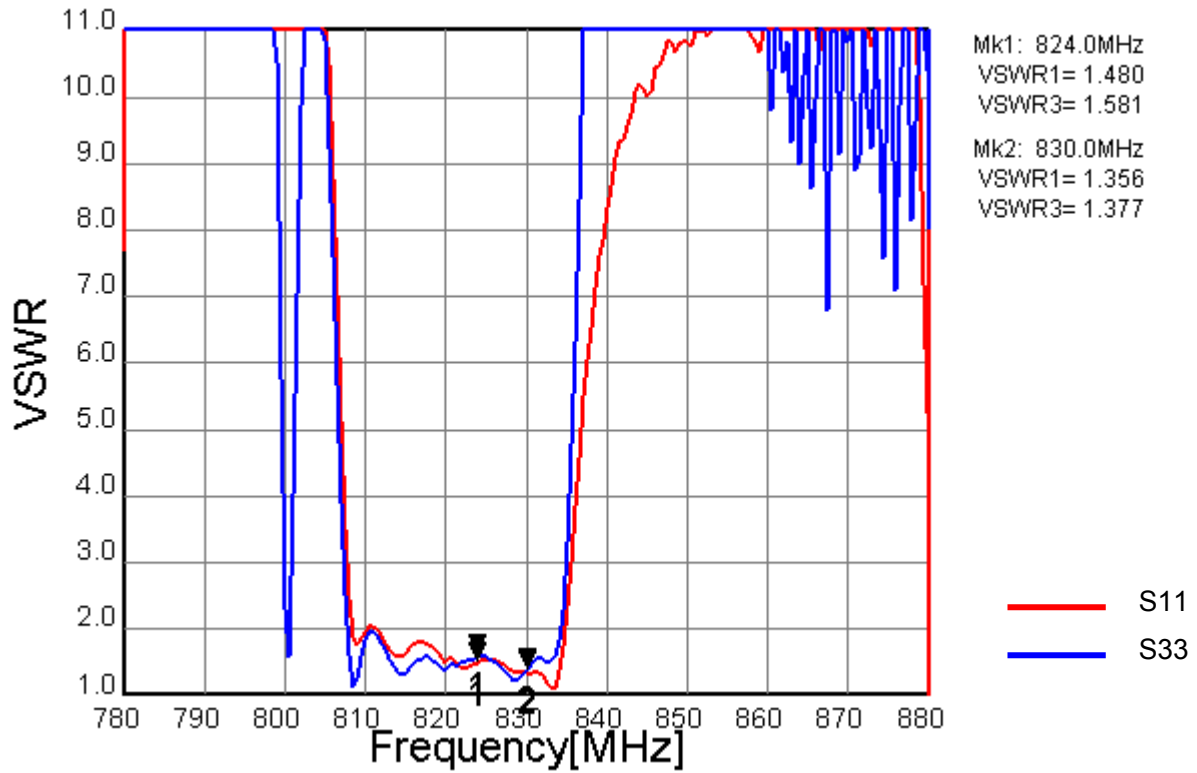


Fig.9 VSWR (Filter2)

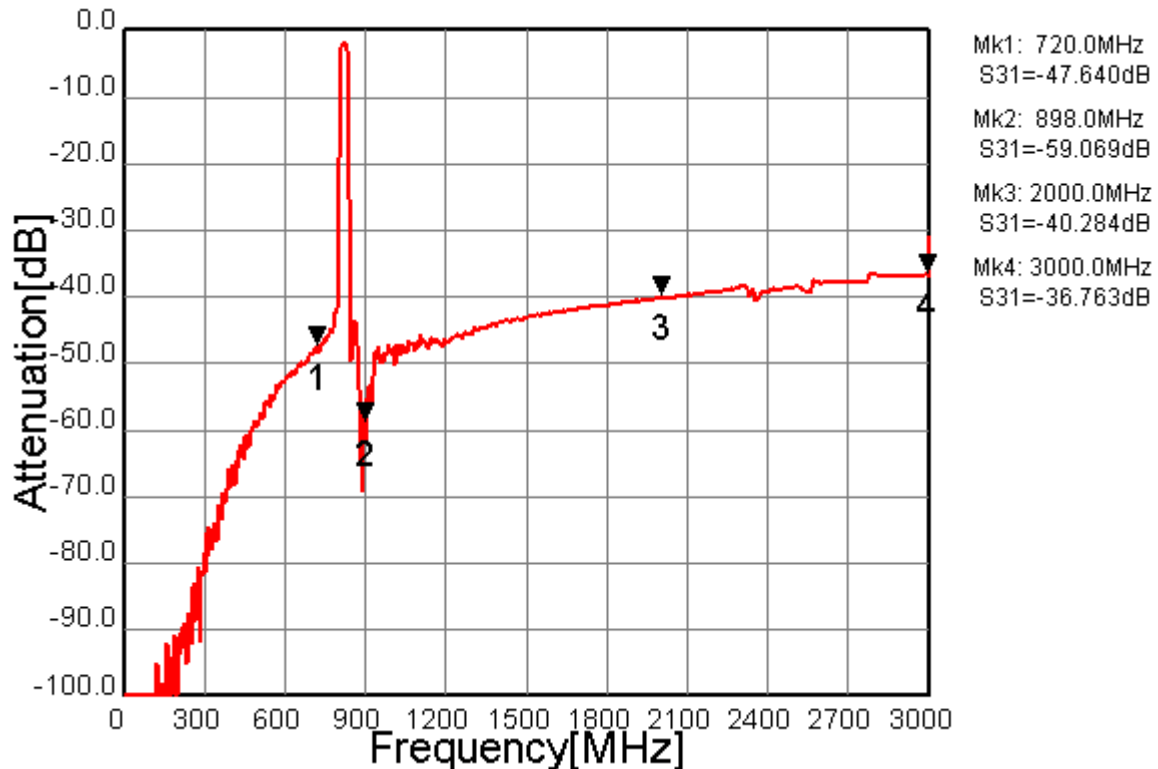


Fig.10 Wide-band Characteristic (Filter2)

TAIYO YUDEN





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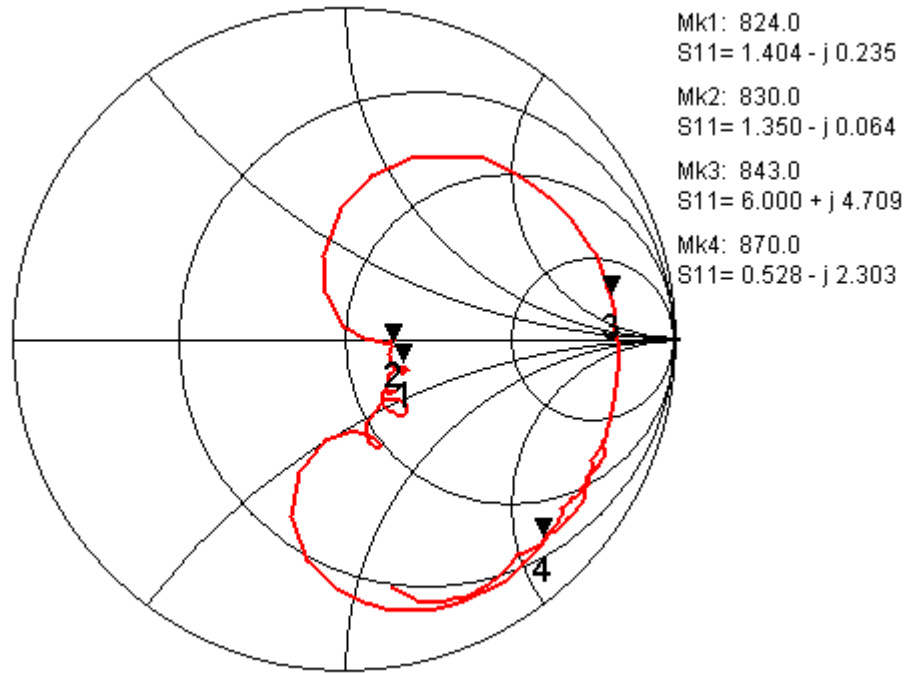


Fig.11 S11 Impedance (Filter2)

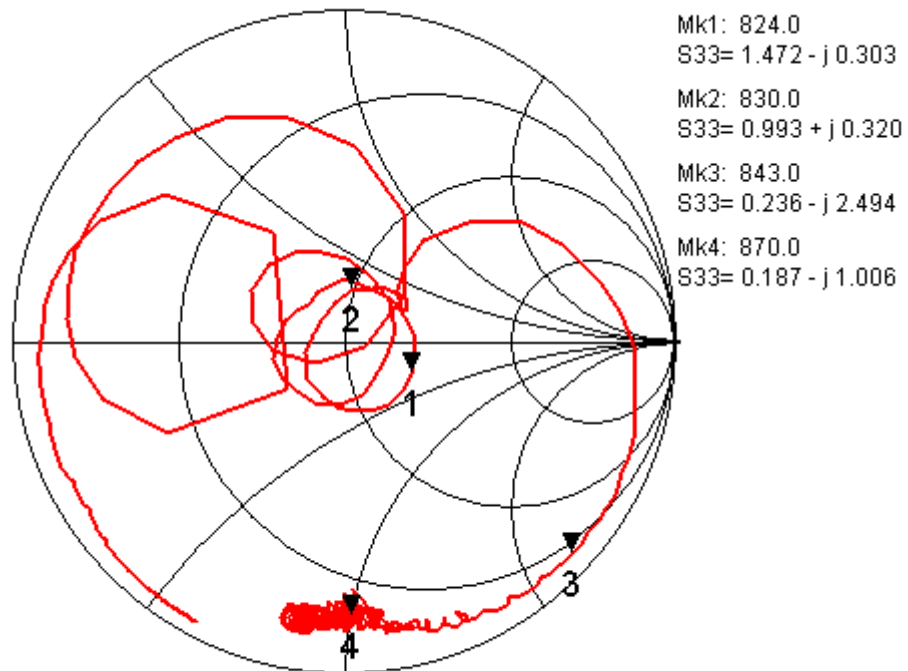


Fig.12 S33 Impedance (Filter2)