



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	PCS-Rx Antenna Filter	Date	March 31, 2010
Part Number	FAR-F6KA-1G9600-D4DQ	ver.1.1a	

Table 1 Electrical Specification

Passband : 1930.6 ~ 1989.4 MHz						
Item	Condition(MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930.6 – 1989.4	-	3.4	5.0	dB	
Input Return Loss (VSWR)	1930.6 – 1989.4	6	8.2 (2.3)	(2.9)	dB	
Output Return Loss (VSWR)	1930.6 – 1989.4	6	8.3 (2.4)	(2.9)	dB	
Passband Ripple	1930.6 – 1989.4		1.5	3.8	dB	
Absolute Attenuation	50-1850.6	40	45	-	dB	
	1850.6-1909.4	40	44	-	dB	
	2040-2800	35	44	-	dB	
	2800-3400	28	38		dB	
	3400-6000	18	33	-	dB	
Input Power	1850.6-1909.4	-	-	+13	dBm	CW, 2000h Ta=50°C
Input Impedance	unbalanced	50			Ohm	
Output Impedance	unbalanced	50			Ohm	
Operating Temperature		-30 to +85			°C	
Storage Temperature		-40 to +85			°C	
Package Size		1.4 Typ. X 1.0 Typ.			mm ²	
Package Height		0.5 Max			mm	



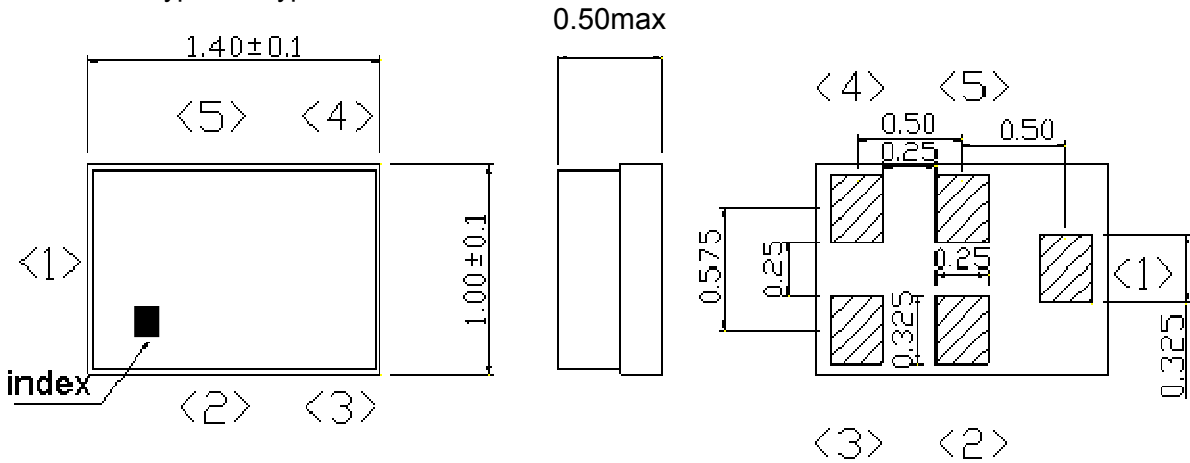
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Dimensions

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

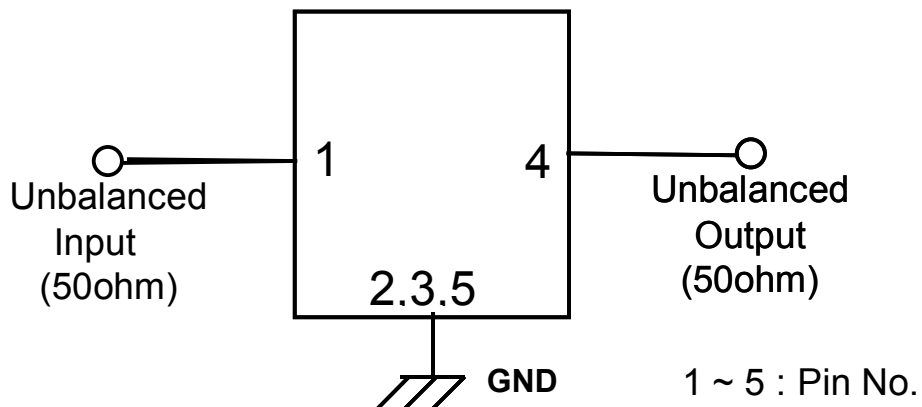


Unit : mm

Pin Configuration

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

Evaluation Circuit

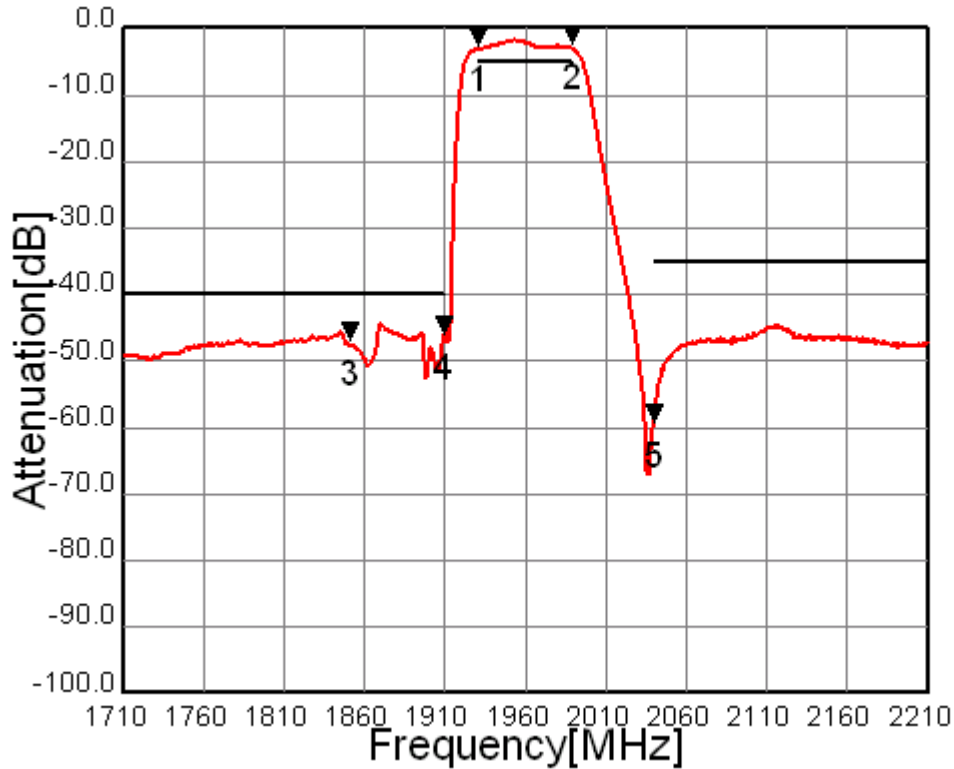




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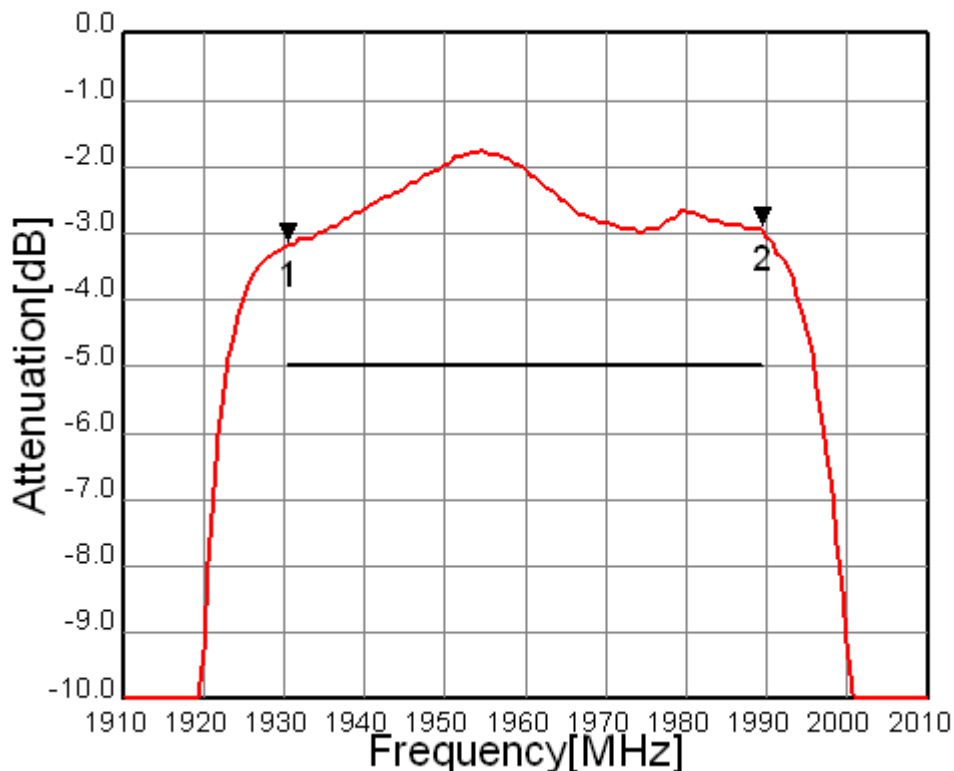
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- Mk1: 1930.6MHz
S21=-3.172dB
- Mk2: 1989.4MHz
S21=-2.945dB
- Mk3: 1850.6MHz
S21=-47.436dB
- Mk4: 1909.4MHz
S21=-46.657dB
- Mk5: 2040.0MHz
S21=-59.643dB

Fig.1 Pass-band Characteristics



- Mk1: 1930.6MHz
S21=-3.172dB
- Mk2: 1989.4MHz
S21=-2.945dB

Fig.2 In-band Characteristics



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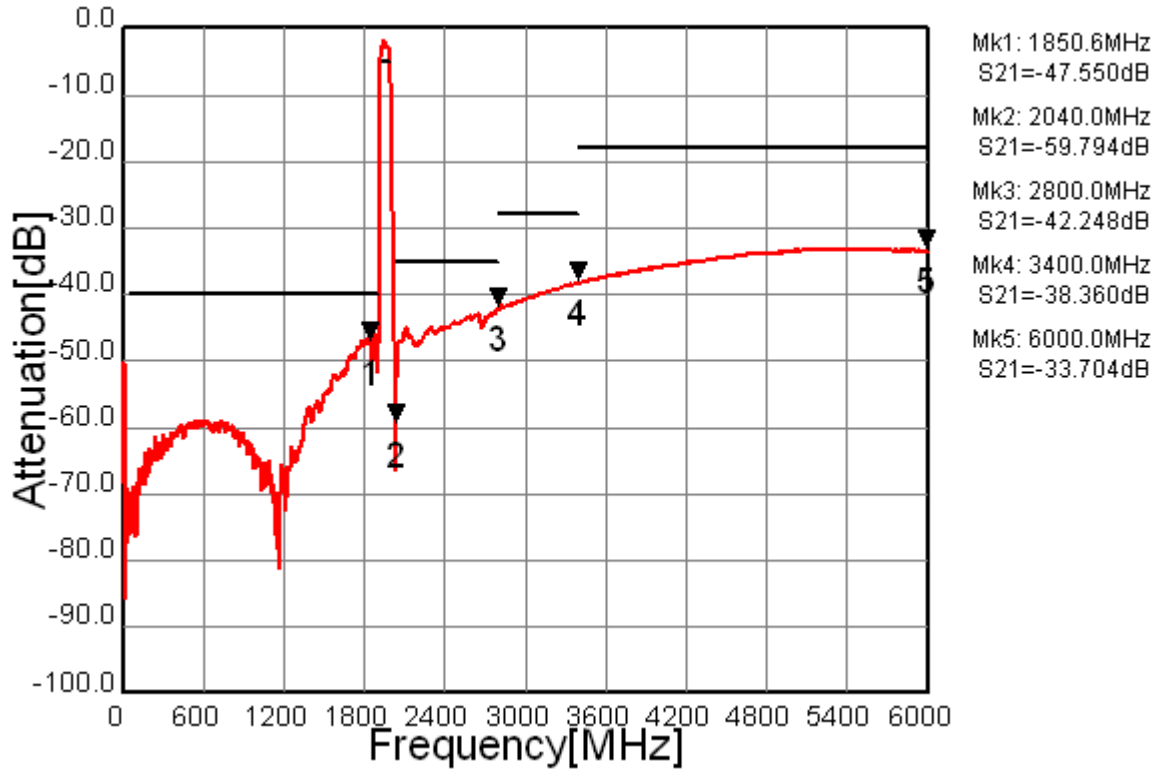


Fig.3 Wide-band Characteristics



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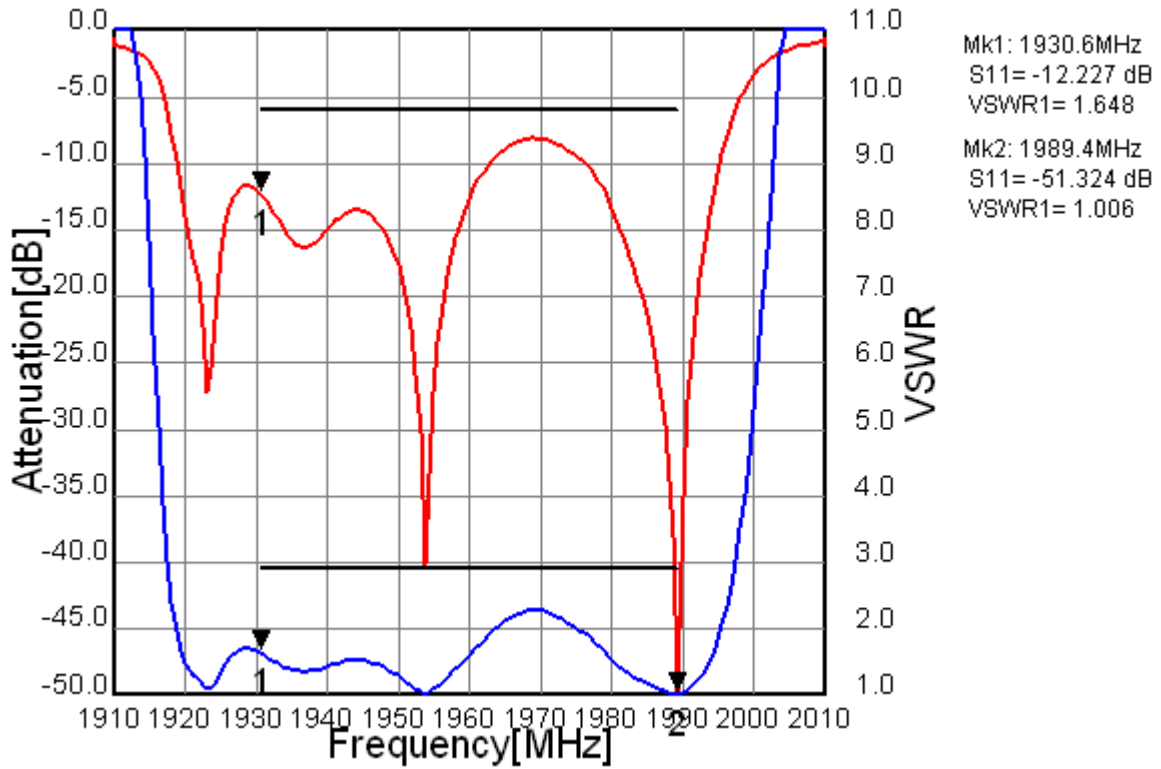


Fig.4 Return Loss and VSWR S11

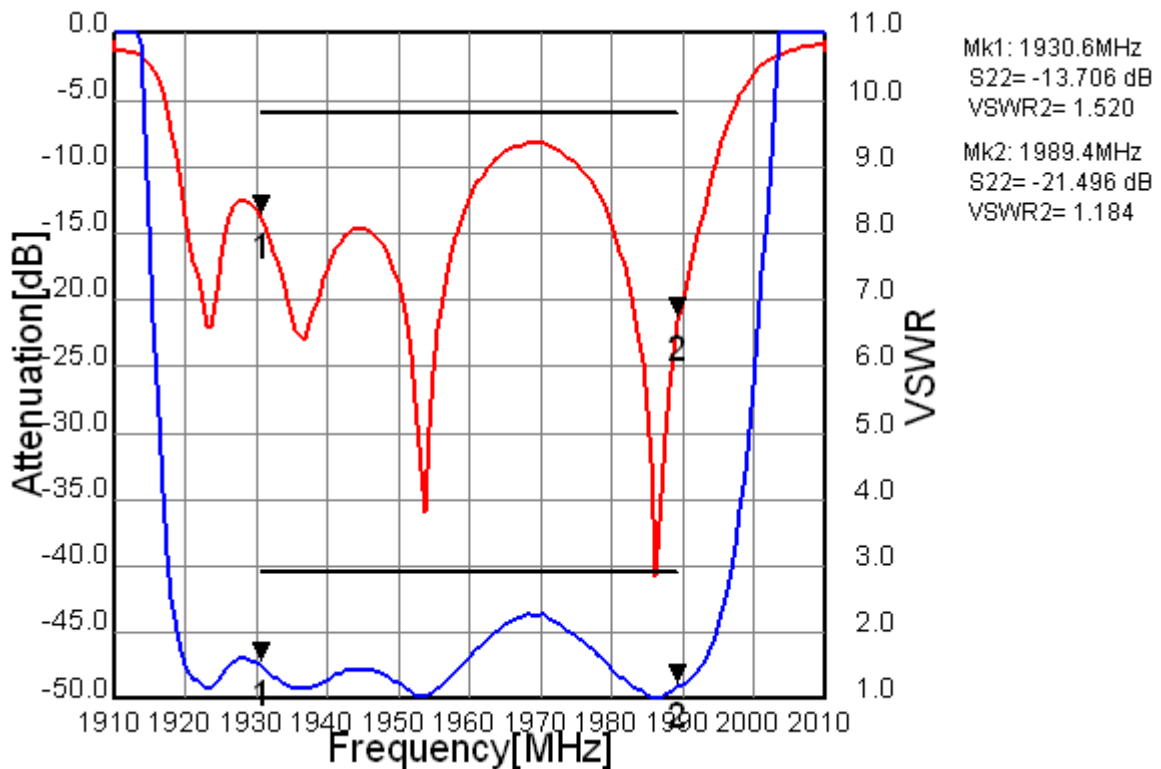


Fig.5 Return Loss and VSWR S22



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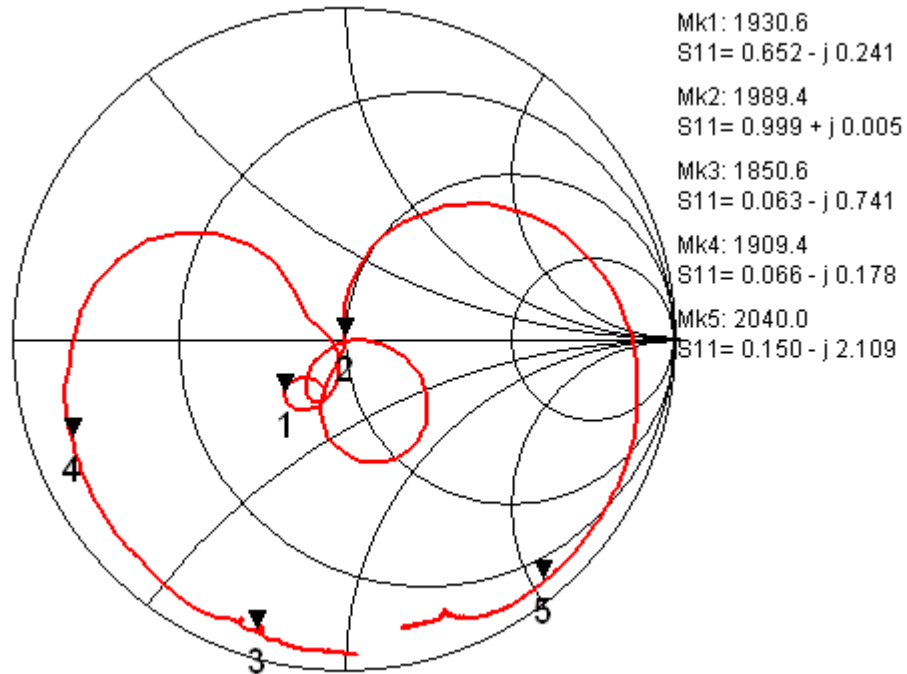


Fig.6 Impedance S11

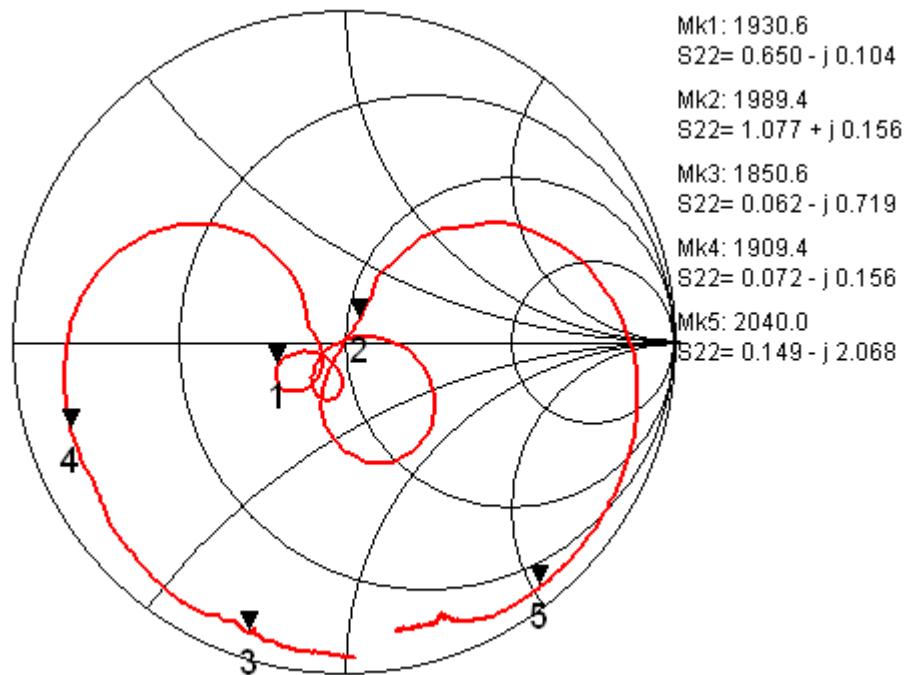


Fig.7 Impedance S22