



MSL1

\* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I (2G) Tx	Date	March 31, 2010
Part Number	FAR-F6KA-1G9500-D4DG	Version 2.1b	-

Table 1. Electrical specifications

Pass Band (1920 ~1980 MHz)						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1920-1980 MHz	-	1.6	2.5	dB	
Ripple	1920-1980 MHz	-	0.6	1.5	dB	
Absolute attenuation	DC-1577MHz	32	38	-	dB	
	1577-1880MHz	22	29	-	dB	
	2110-2170 MHz	35	38	-	dB	
	2500-3120 MHz	28	34	-	dB	
	3840-3960 MHz	25	29	-	dB	
	5760-5940 MHz	15	21	-	dB	
VSWR(S11)	1920-1980 MHz	-	1.9	2.3	-	
VSWR(S22)	1920-1980 MHz	-	1.9	2.3	-	
In/Output impedance	-	50/50			ohm	
Operating temperature		-30 to +85			°C	
Device size (L x W x H)		1.4typ.x1.0typ.x0.5max.			mm	SMD

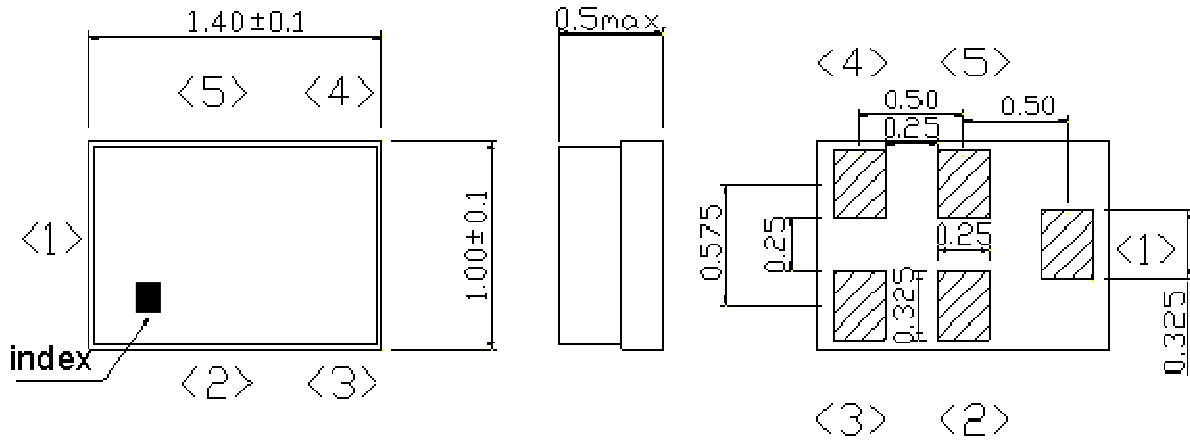


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### Dimensions

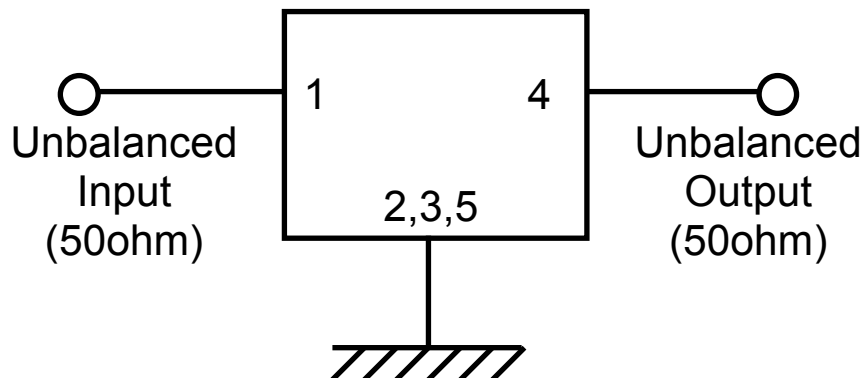


Unit : mm

### 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





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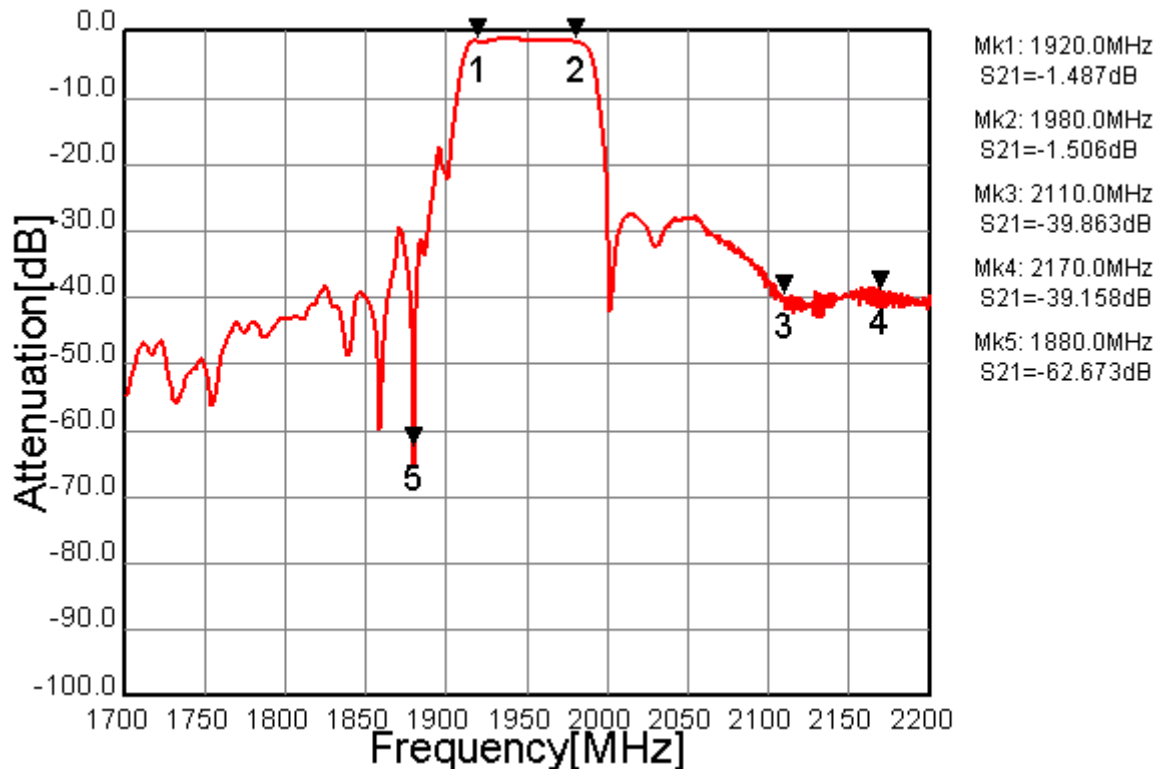


Fig.1 Pass-band Characteristics

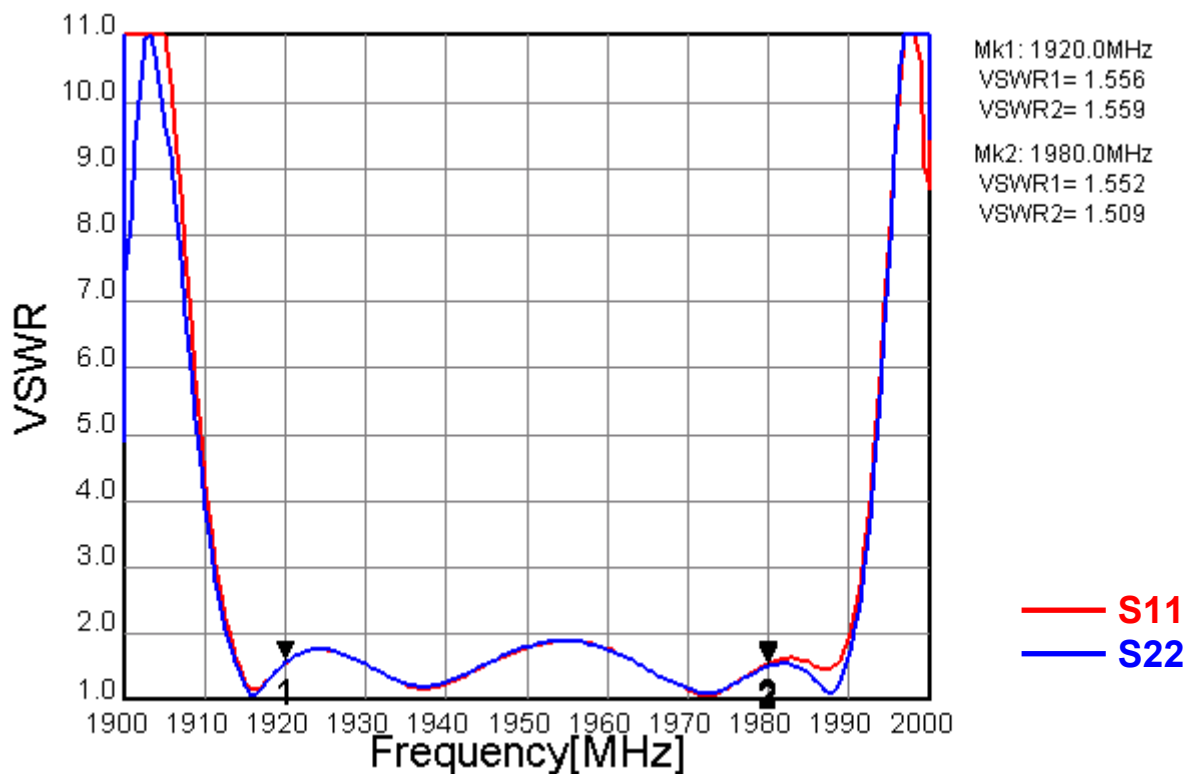


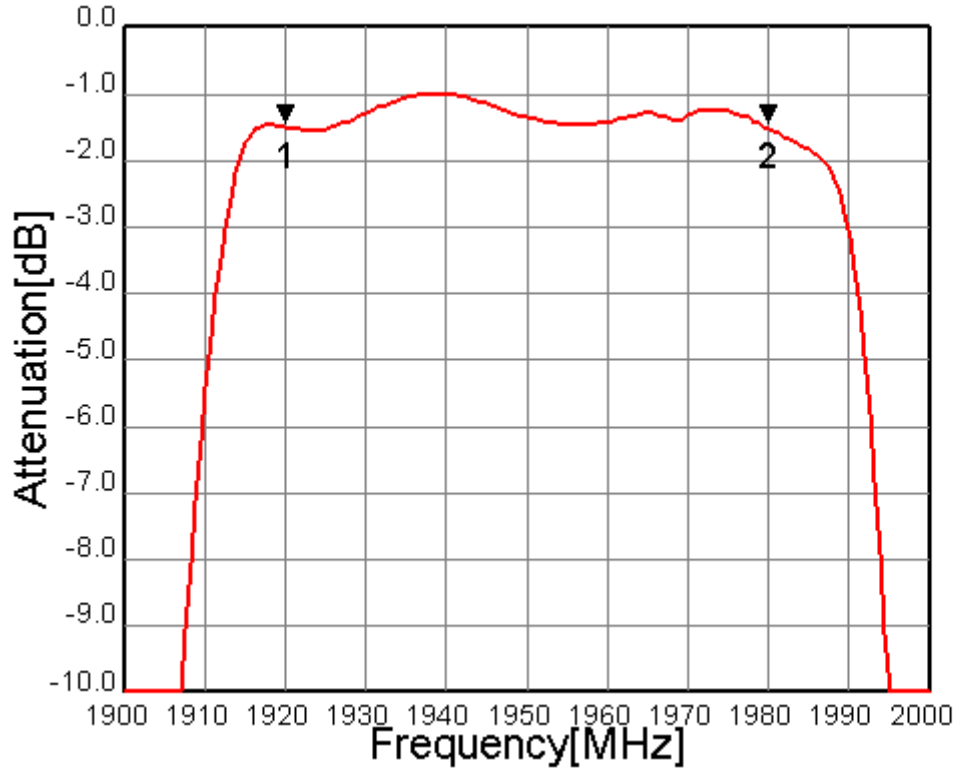
Fig.2 VSWR



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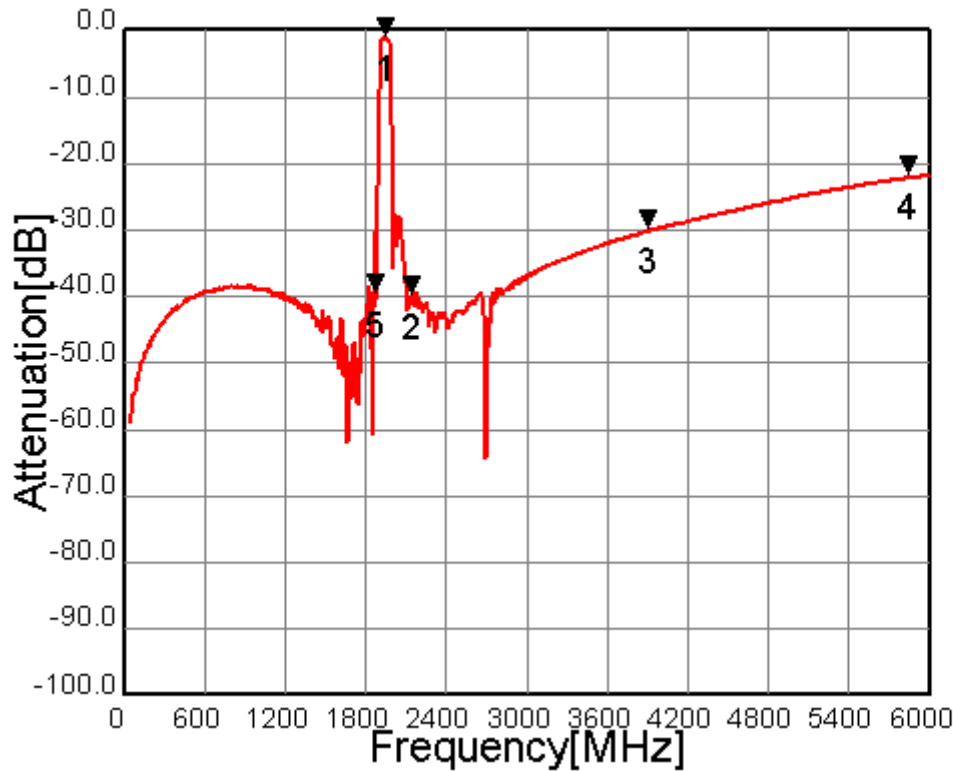
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Mk1: 1920.0MHz  
S21=-1.487dB  
Mk2: 1980.0MHz  
S21=-1.506dB

Fig.3 In-band Characteristics



Mk1: 1950.0MHz  
S21=-1.344dB  
Mk2: 2140.0MHz  
S21=-40.292dB  
Mk3: 3900.0MHz  
S21=-30.237dB  
Mk4: 5850.0MHz  
S21=-22.203dB  
Mk5: 1880.0MHz  
S21=-39.943dB

Fig.4 Wide-band Characteristics



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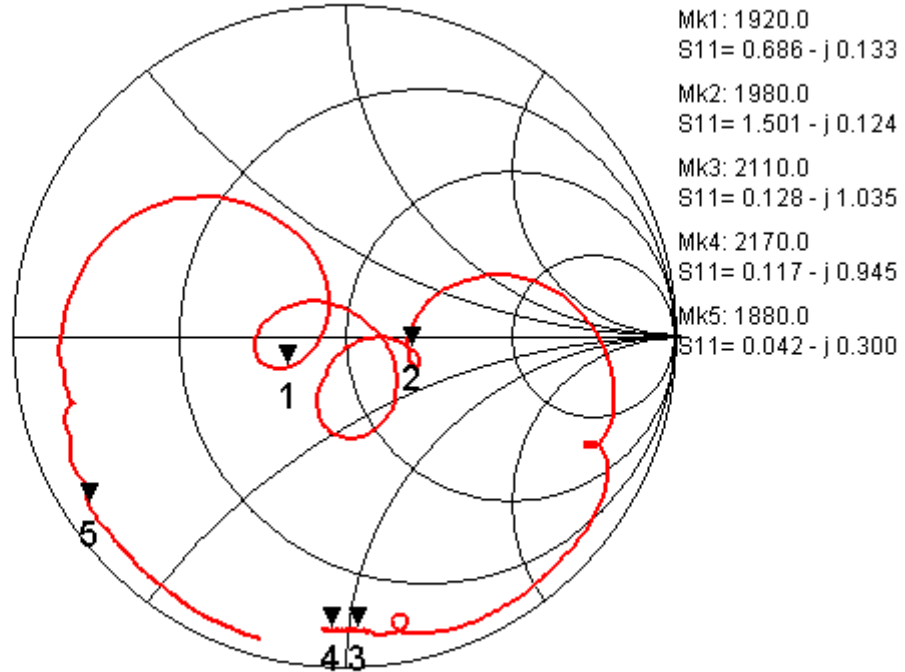


Fig.5 Impedance (S11)

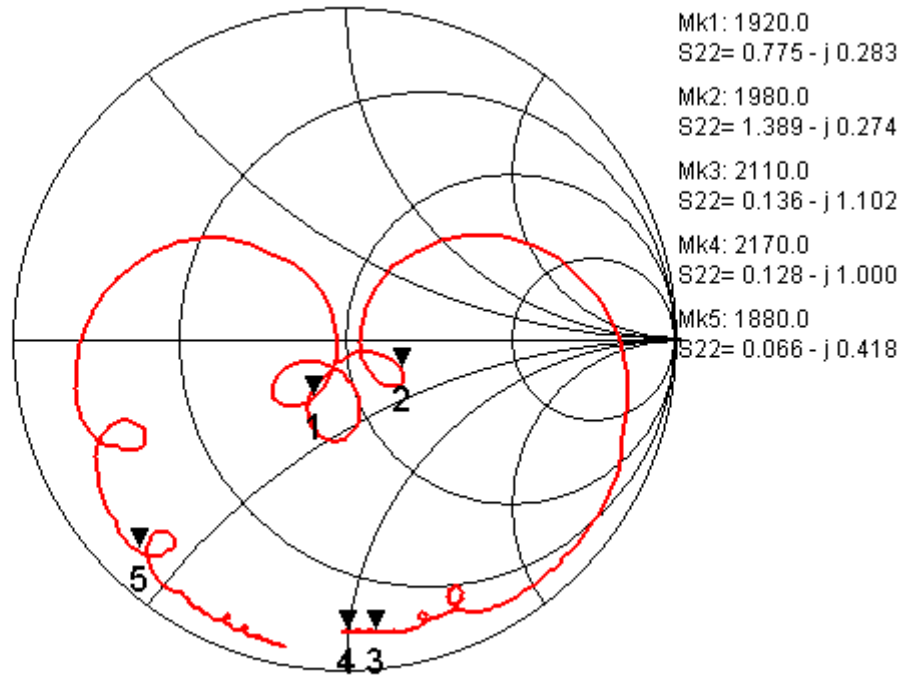


Fig.6 Impedance (S22)