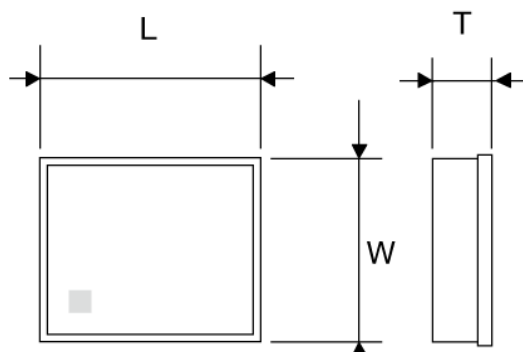


SAW Filter

FAR-F6KA-1G9000-D4DS



■ Features

- Item Summary
TD-SCDMA, 504
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 3000 , 15000pcs

■ Products characteristics table

Temperature Range	-20 to +85°C
Use	TDSCDMA
Insertion Loss	1.6dB
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.



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA	Date	March 31, 2010
Part Number	FAR-F6KA-1G9000-D4DS	Version 1.0a	

Table 1. Electrical specification

Pass Band (1880-1920MHz)						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1880-1920 MHz	-	1.6	2.2	dB	
Ripple	1880-1920 MHz	-	0.6	1.5	dB	
VSWR(S11)	1880-1920 MHz	-	2.1	2.6	-	
VSWR(S22)	1880-1920 MHz	-	2.1	2.6	-	
Absolute attenuation	1- 930 MHz	30	40	-	dB	
	930- 970 MHz	35	40	-	dB	
	970-1830 MHz	20	32	-	dB	
	1970-3750 MHz	25	30	-	dB	
	3750-3850 MHz	25	29	-	dB	
	3850-6000 MHz	15	21	-	dB	
In/Output impedance	-	50/50			ohm	
Operating temperature		-20 to +85			°C	
Device size (L x W x H)		1.4typ.x1.0typ.x0.5max			mm	SMD



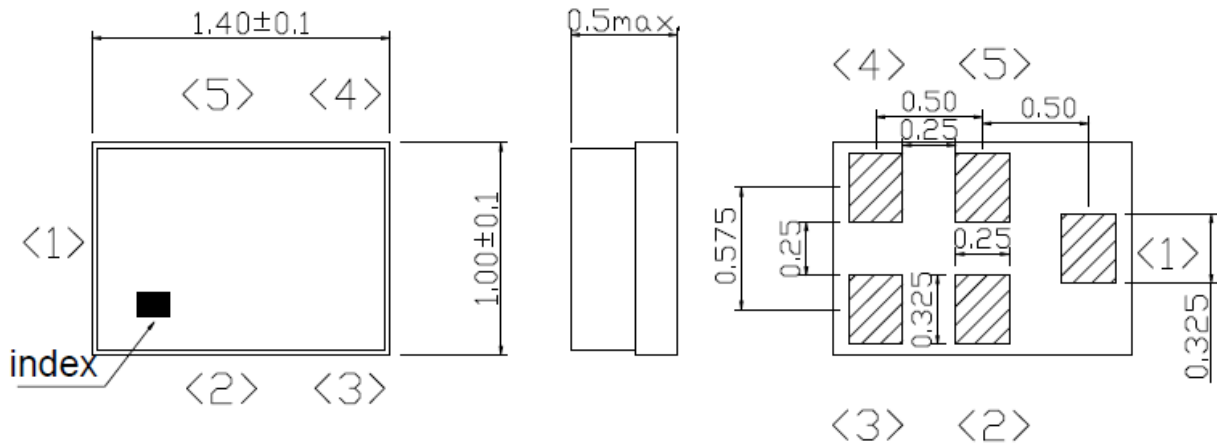
MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA	Date	March 31, 2010
Part Number	FAR-F6KA-1G9000-D4DS	Version 1.0a	

Dimensions

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

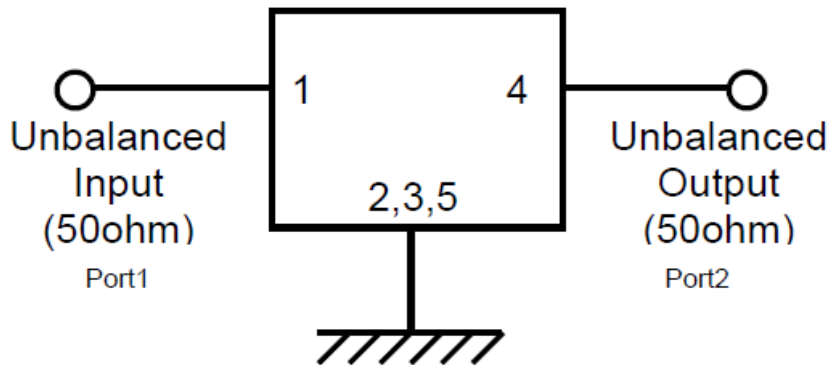


Unit : mm

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

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA	Date	March 31, 2010
Part Number	FAR-F6KA-1G9000-D4DS	Version 1.0a	

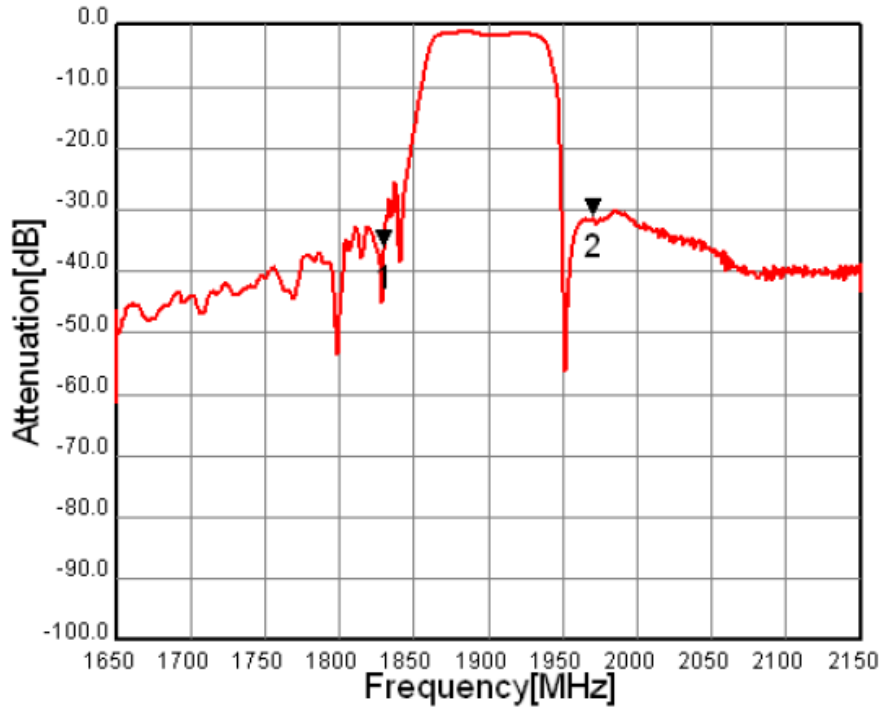


Fig.1 Pass-band Characteristic

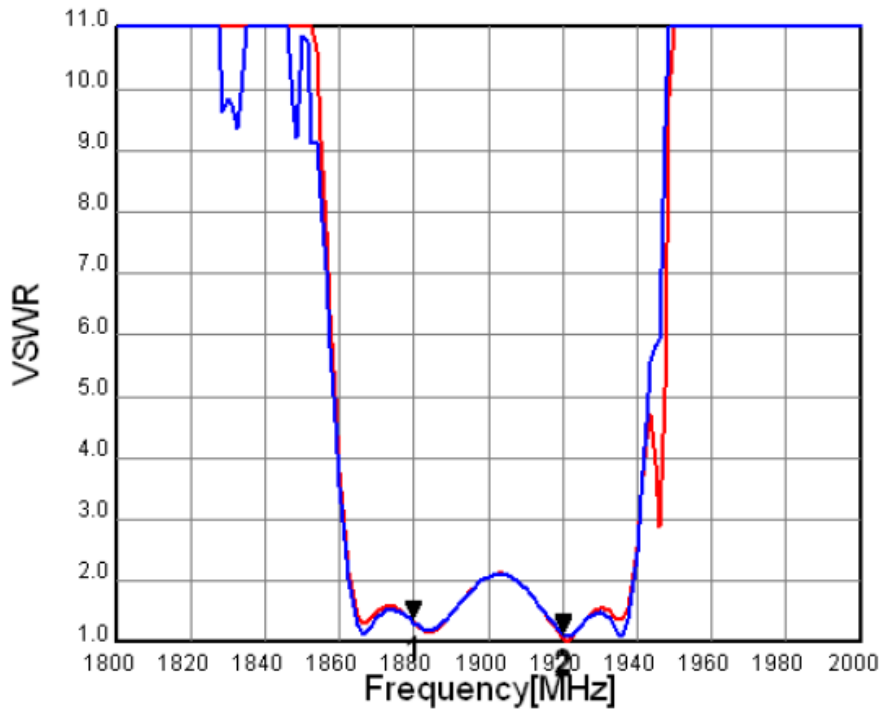


Fig.2 VSWR



MSL1

* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA	Date	March 31, 2010
Part Number	FAR-F6KA-1G9000-D4DS	Version 1.0a	

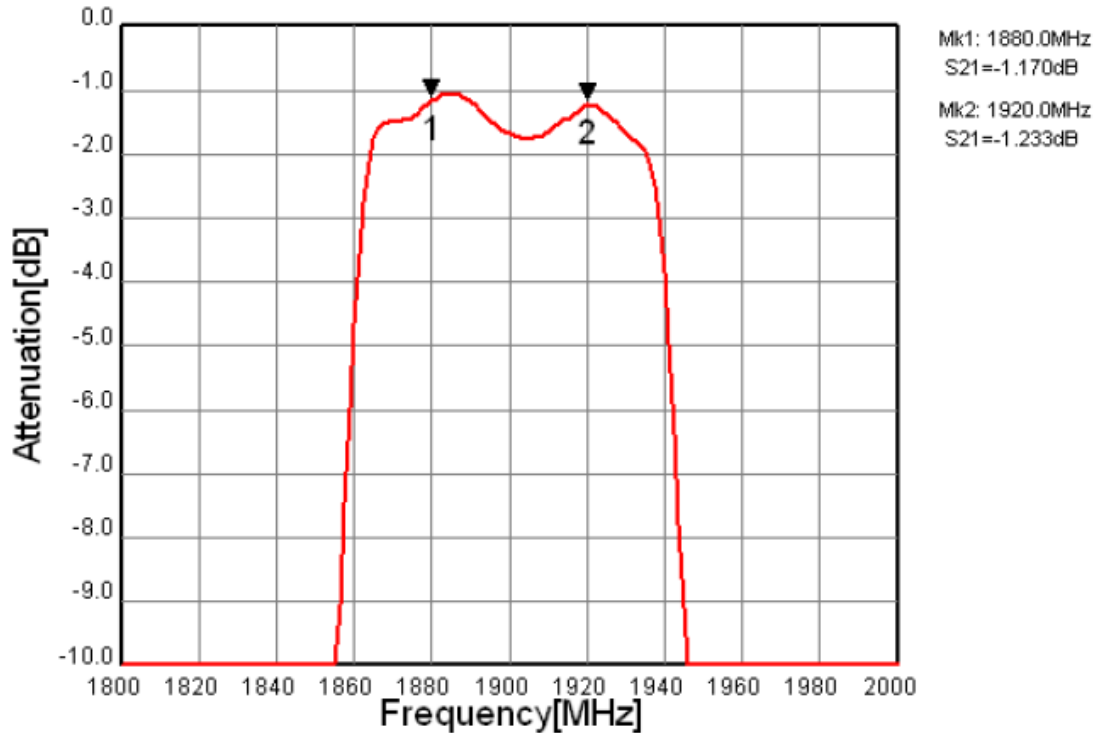


Fig.3 In-band Characteristic

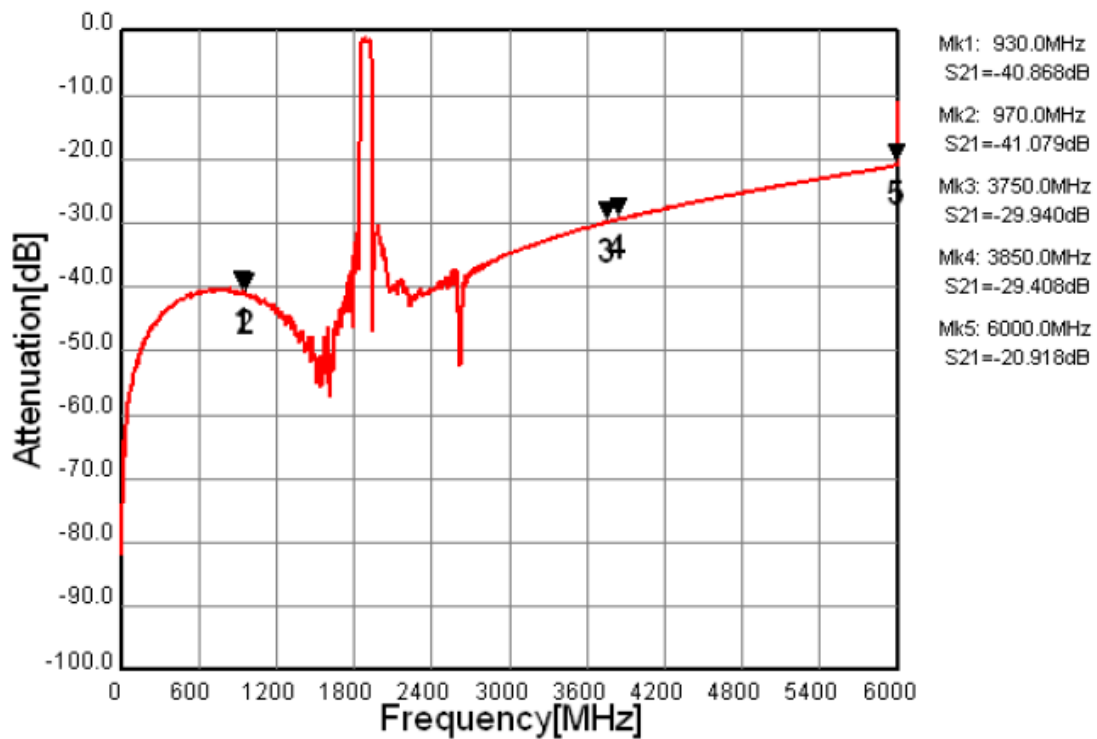


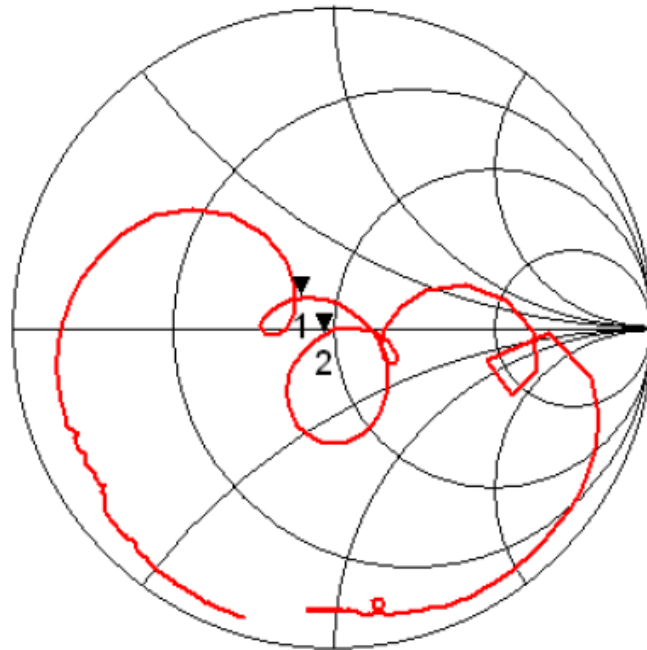
Fig.4 Wide-band Characteristic



MSL1

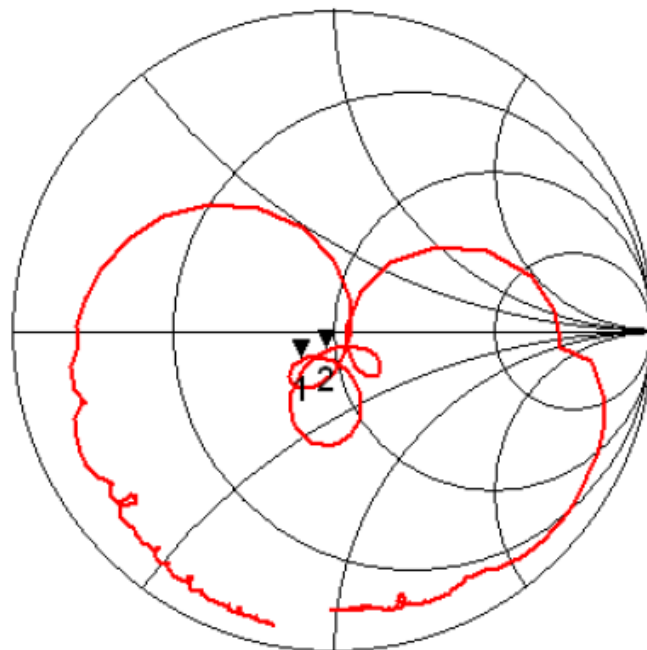
* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	TD-SCDMA	Date	March 31, 2010
Part Number	FAR-F6KA-1G9000-D4DS	Version 1.0a	



Mk1: 1880.0
S11= 0.795 + j0.162
Mk2: 1920.0
S11= 0.929 - j0.041

Fig.5 Impedance (S11)



Mk1: 1880.0
S22= 0.794 - j0.148
Mk2: 1920.0
S22= 0.937 - j0.114

Fig.6 Impedance (S22)