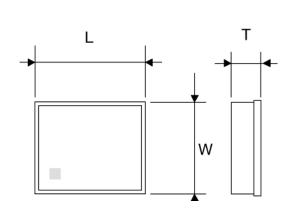
Spec Sheet

SAW Dual Filter

FAR-G6KT-1G9600-Y4RY



Features

- Item Summary
- GSM1900/1800 , Rx, 705
- Lifecycle Stage
- Mass Production
- Standard packaging quantity (minimum)
- Taping Embossed 3000 , 15000pcs

Products characteristics table

Temperature Range	-30 to +85℃
GSM	1900 / 1800
Use	GSM
Transmitting / Receiving	Rx Dual Filter
Insertion Loss	1.9/1.8dB
Attenuation	13/18dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

External Dimensions

L	1.8mm +0.1:-0.1
W	1.4mm +0.1:-0.1
т	0.5mm max

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. 2015.06.03

* Pb Free Part



Customer Name	Standard Specification	TAIYO YUDEN Mobil	e Technology Co.,Ltd.
System	PCS/ DCS Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G6KT-1G9600-Y4RY	Version 2.0bb	

Table 1. Electrical specifications (Filter1)

Passband: 1930 ~ 1990 MHz						
literer	O 111	Specification		11-3		
Item	Condition	Min.	Тур.	Max.	Unit	Remarks
Insertion Loss	1930~1990 MHz	-	1.9	2.7	dB	
Ripple	1930~1990 MHz	-	0.6	1.5	dB	
Absolute	DC ~1830 MHz	25	32	-	dB	
attenuation	1830~1910 MHz	10	13	-	dB	
	2010~2070 MHz	7	15	-	dB	
	2070~2150 MHz	13	18	-	dB	
	2150~3000 MHz	25	30	-	dB	
	3000~6000 MHz	25	35	-	dB	
VSWR (Input)	1930~1990 MHz	-	1.6	2.0	-	
VSWR (Output)	1930~1990 MHz	-	1.6	2.0	-	
Amplitude Balance S21 / S31	1930~1990 MHz	-1.0	-0.2/+0.4	+1.0	dB	
Phase Balance (ΦS21-ΦS31)-180	1930~1990 MHz	-15	-8/+5	+15	deg.	
Input Impedance	Unbalanced		50//3.3nH		ohm	
Output Impedance	Balance		150//18nH		ohm	
Operating Te	mperature		-30 ~ +85		°C	

* Pb Free Part



Customer Name	Standard Specification	TAIYO YUDEN Mobil	e Technology Co., Ltd.
System	PCS/ DCS Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G6KT-1G9600-Y4RY	Version 2.0bb	

Table 2. Electrical specifications (Filter2)

Passband: 1805 ~ 1880 MHz						
Itom	O and little an	Specification		Unit		
Item	Condition	Min.	Тур.	Max.	Unit	Remarks
Insertion Loss	1805~1880 MHz	-	1.8	2.5	dB	
Ripple	1805~1880 MHz	-	0.6	1.5	dB	
Absolute	DC ~1300 MHz	30	44	-	dB	
attenuation	1300~1705 MHz	20	30	-	dB	
	1705~1785 MHz	12	18	-	dB	
	1920~1980 MHz	15	20	-	dB	
	1980~3000 MHz	18	25	-	dB	
	3000~5000 MHz	25	36	-	dB	
	5000~6000 MHz	25	36	-	dB	
VSWR (Input)	1805~1880 MHz	-	1.5	2.3	-	
VSWR (Output)	1805~1880 MHz	-	1.8	2.3	-	
Amplitude Balance S21 / S31	1805~1880 MHz	-1.4	-0.6/+0.8	+1.4	dB	
Phase Balance (ΦS21-ΦS31)-180	1805~1880 MHz	-10	-4.0/+4.0	+10	deg.	
Input Impedance	Unbalanced		50//3.3nH		ohm	
Output Impedance	Balance		150//15nH		ohm	
Operating Te	mperature		-30 ~ +85		°C	



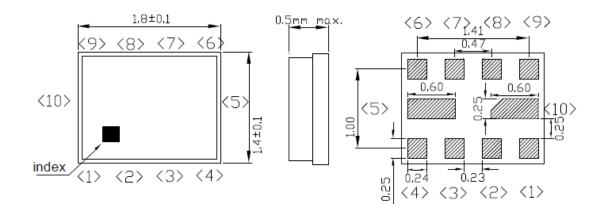


RoHS

Customer Name	Standard Specification	TAIYO YUDEN Mobil	e Technology Co.,Ltd.
System	PCS/ DCS Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G6KT-1G9600-Y4RY	Version 2.0bb	

Dimensions

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



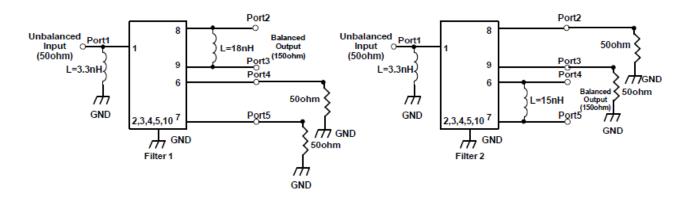
Pin Configuration

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

Filter No.	Pass band (MHz)	System
1	1930 ~ 1990	PCS-Rx
2	1805 ~ 1880	DCS-Rx

Unit: mm

Evaluation Circuit

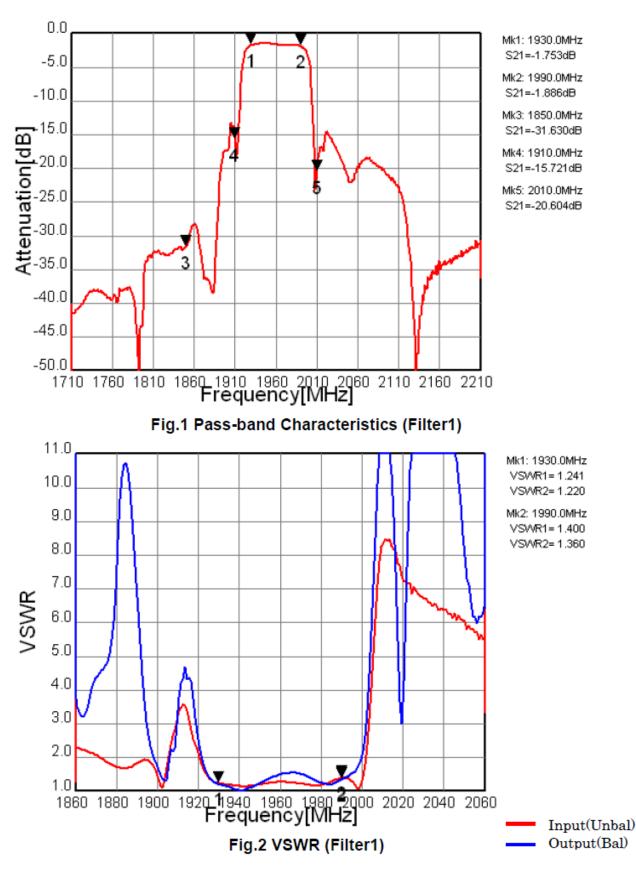


MSL1

RoHS

Pb-free * Pb Free Part

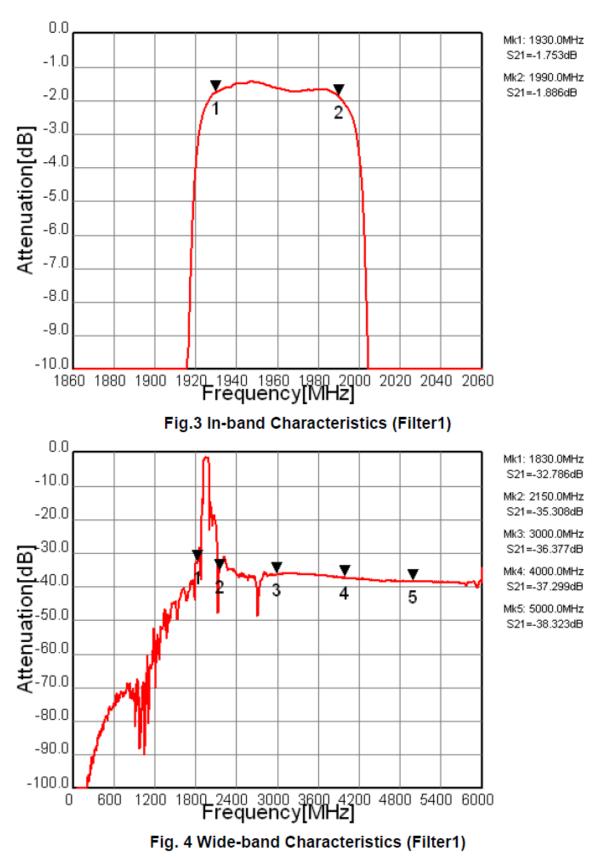
Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,	
System	PCS/ DCS Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G6KT-1G9600-Y4RY	Version 2.0bb	





RoHS

Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemPCS/ DCS Rx (50/150ohms)DateMarch 31, 2010Part NumberFAR-G6KT-1G9600-Y4RYVersion 2.0bb



* Pb Free Part



RoHS

TETTECTUIT			
Customer Name	Standard Specification	TAIYO YUDEN Mobil	e Technology Co.,Ltd.
System	PCS/ DCS Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G6KT-1G9600-Y4RY	Version 2.0bb	

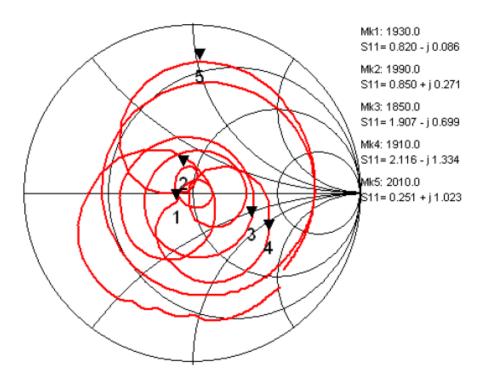


Fig. 5 Input Impedance (Unbalance) (Filter1)

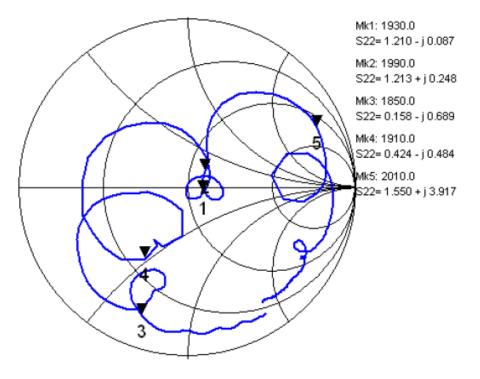
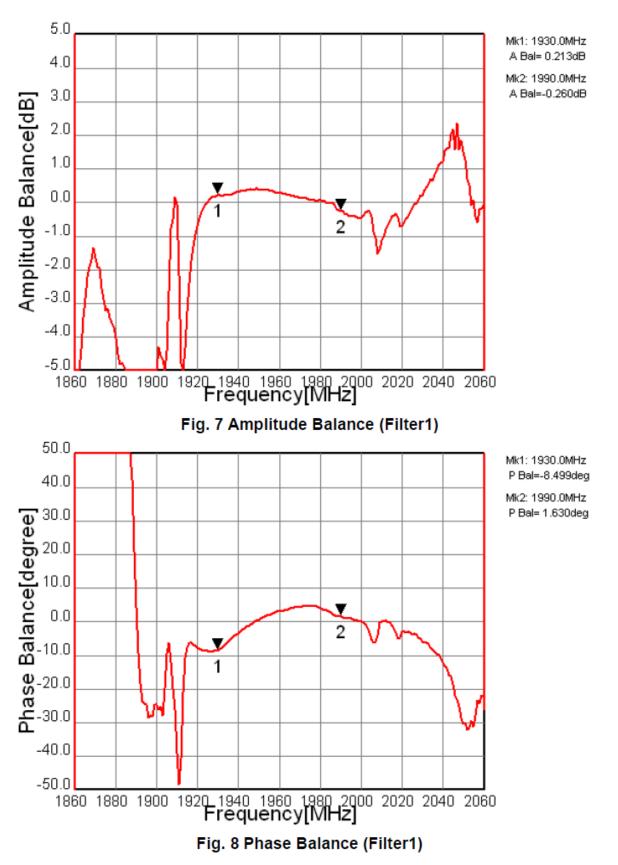


Fig. 6 Output Impedance (Balance) (Filter1)



RoHS

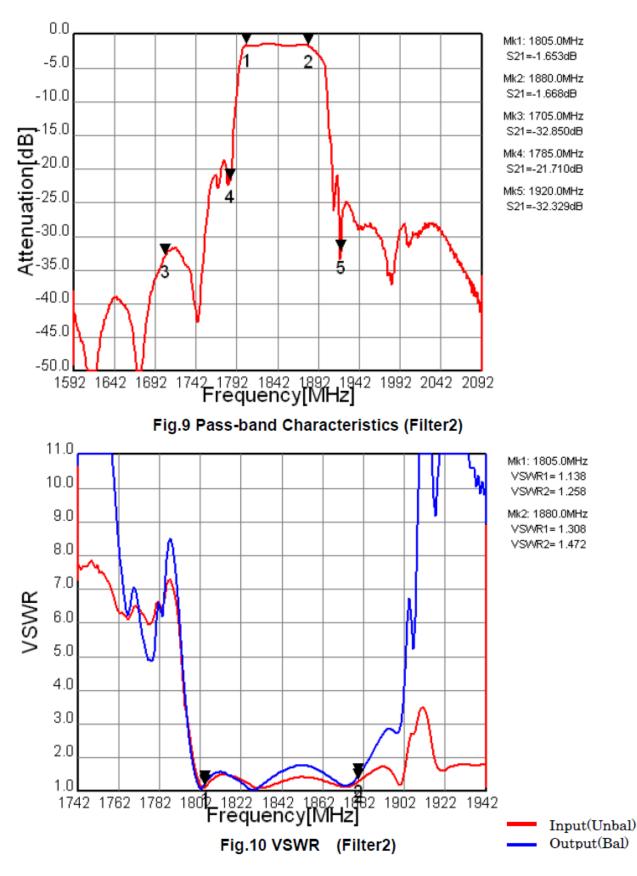
Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemPCS/ DCS Rx (50/150ohms)DateMarch 31, 2010Part NumberFAR-G6KT-1G9600-Y4RYVersion 2.0bbVersion 2.0bb





RoHS

Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemPCS/ DCS Rx (50/150ohms)DateMarch 31, 2010Part NumberFAR-G6KT-1G9600-Y4RYVersion 2.0bbVersion 2.0bb



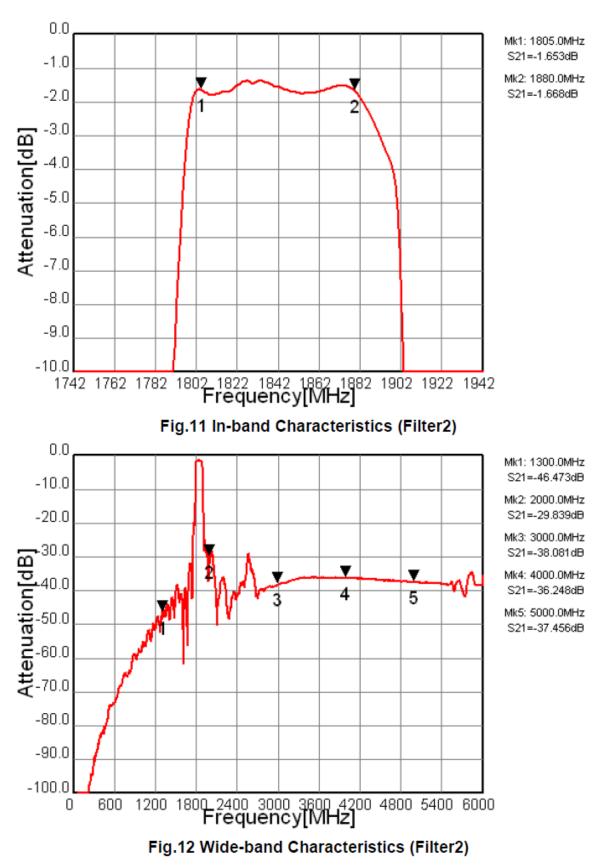
TAIYO YUDEN

MSL1

RoHS

Pb-free * Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,	
System	PCS/ DCS Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G6KT-1G9600-Y4RY	Version 2.0bb	





RoHS

Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemPCS/ DCS Rx (50/150ohms)DateMarch 31, 2010Part NumberFAR-G6KT-1G9600-Y4RYVersion 2.0bb

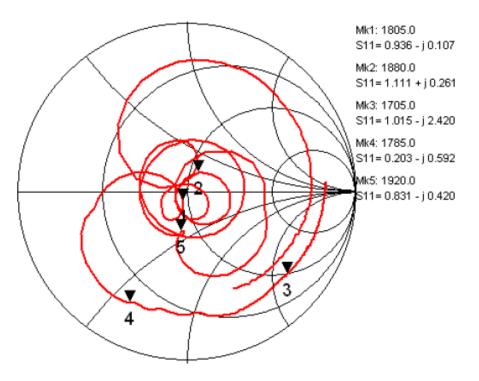


Fig.13 Input Impedance (Unbalance) (Filter2)

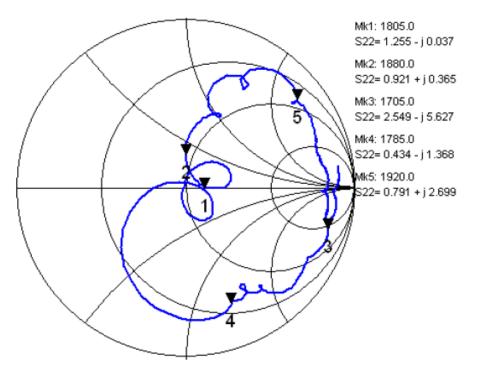


Fig.14 Output Impedance (Balance) (Filter2)



RoHS

Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemPCS/ DCS Rx (50/1500hms)DateMarch 31, 2010Part NumberFAR-G6KT-1G9600-Y4RYVersion 2.0bb

