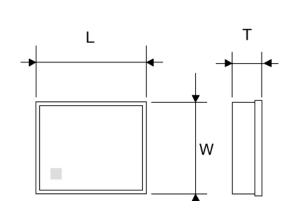
Spec Sheet

SAW Dual Filter

FAR-G5KC-942M50-Y4YW



Features

- Item Summary
- GSM900/850 , Rx, 705
- Lifecycle Stage
- Mass Production
- Standard packaging quantity (minimum)
- Taping Embossed 3000 , 15000pcs

Products characteristics table

Temperature Range	-30 to +85°C
GSM	900 / 850
Use	GSM
Transmitting / Receiving	Rx Dual Filter
Insertion Loss	1.8/1.4dB
Attenuation	31/54dB
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. * Pb Free Part



Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemGSM900/GSM850 Rx (50/1500hms)DateMarch 31, 2010Part NumberFAR-G5KC-942M50-Y4YWVersion 1.1bc

Table 1.Electrical specifications(Filter 1)

Pass Band (925-960MHz)						
Item	Condition	Specification		Unit	Remark	
	(MHz)	Min.	Тур.	Max.		
Insertion Loss	925-960		1.8	24	dB	
		-	1.0	2.4	(*1)	
Ripple	925-960	-	0.7	1.4	dB	
Input VSWR	925-960	-	1.8	2.2	-	
Output VSWR	925-960	-	1.8	2.2	-	
Absolute attenuation	DC-880	40	60	-	dB	
	880-905	28	40	-	dB	
	905-915	20	31	-	dB	
	980-1025	25	34	-	dB	
	1025-2880	36	51	-	dB	
	2880-6000	30	43	-	dB	
Amplitude balance (S21/S31)	925-960	-1.0	-0.2/+0.2	+1.0	dB	
Phase balance ((ΦS21-ΦS31)+180)	925-960	-10	-1/+4	+10	deg	
Input impedance (Unbalanced)		50		Ohm		
Output impedance	e (Balanced)	150//82nH		Ohm		
Operating tem	perature		-30to +85		°C	

(*1) These data include loss that comes from the test board.





Customer Name	Standard Specification	TAIYO YUDEN Mobil	e Technology Co.,Ltd.
System	GSM900/GSM850 Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G5KC-942M50-Y4YW	Version 1.1bc	

Table 2.Electrical specifications(Filter 2)

Pass Band (869-894MHz)						
Item	Condition	Specification		Unit	Remark	
	(MHz)	Min.	Тур.	Max.		
Insertion Loss	869-894	-	1.4	2.1	dB	
					(*1)	
Ripple	869- <mark>8</mark> 94	-	0.3	1.1	dB	
Input VSWR	869-894	-	1.5	2.0	-	
Output VSWR	869-894	-	1.5	2.0	-	
Absolute attenuation	DC-824	45	62	-	dB	
	824-849	40	54	-	dB	
	914-960	25	35	-	dB	
	960-2000	35	53	-	dB	
	2000-6000	30	43	-	dB	
Amplitude balance (S21/S31)	869-894	-1.0	-0.0/+0.2	+1.0	dB	
Phase balance ((ΦS21-ΦS31)+180)	869-894	-10	0/+2	+10	deg	
Input impedance (Unbalanced)		50		Ohm		
Output impedance	e (Balanced)	150		Ohm		
Operating tem	perature	-30to +85		°C		

(*1) These data include loss that comes from the test board.



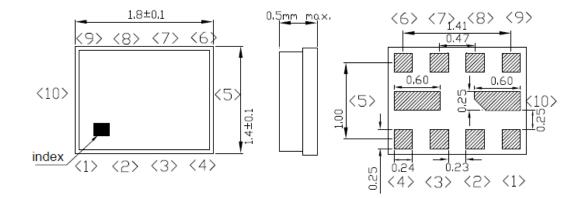


* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Lto		
System	GSM900/GSM850 Rx (50/150ohms)	Date	March 31, 2010	
Part Number	FAR-G5KC-942M50-Y4YW	Version 1.1bc		

Dimensions

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



Pin Configuration

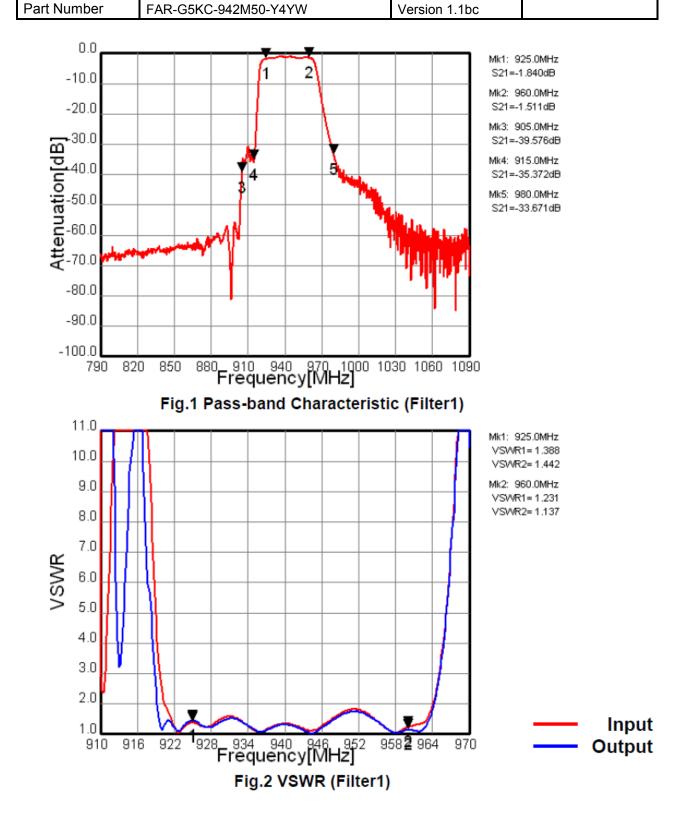
Pin No.	Pin name	Description	
1	IN	Filter1 input pin	
2	GND	Ground	
3	GND	Ground	
4	IN	Filter2 input pin	
5	GND	Ground	
6	OUT	Filter2 balanced output pin	
7	OUT	Filter2 balanced output pin	
8	OUT	Filter1 balanced output pin	
9	OUT	Filter1 balanced output pin	
10	GND	Ground	

Filter No.	${\sf Passband}({\sf MHz})$	System
1	925 ~ 960	GSM900-Rx
2	869 ~ 894	GSM850-Rx

Evaluation Circuit



Unit : mm



TAIYO YUDEN Mobile Technology Co., Ltd.

Date

March 31, 2010





Standard Specification

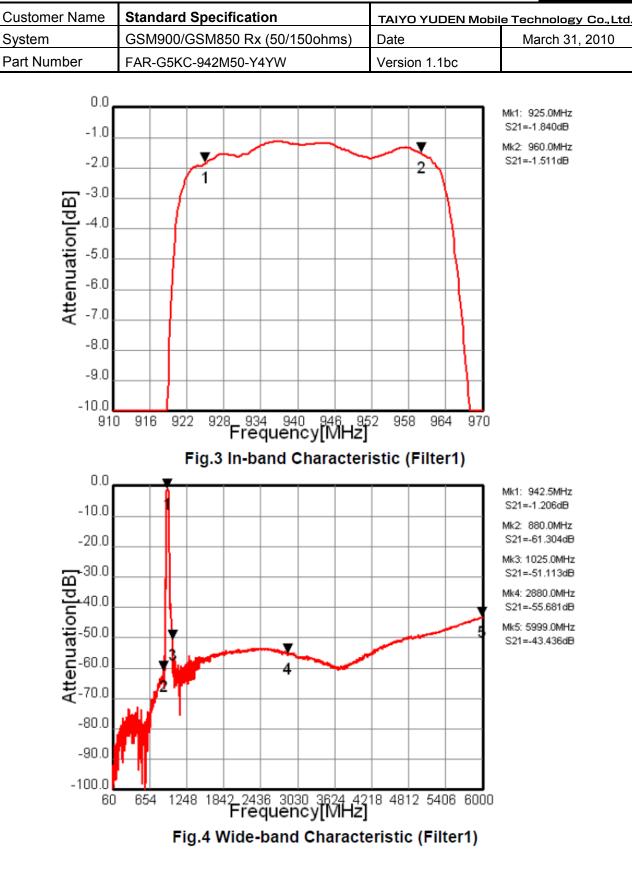
GSM900/GSM850 Rx (50/150ohms)

RoHS

Pb Free Part

System

Customer Name







RoHS

Pb Free Part

* Pb Free Part



RoHS

Customer Name	Standard Specification	TAIYO YUDEN Mobil	e Technology Co.,Ltd.
System	GSM900/GSM850 Rx (50/150ohms)	Date	March 31, 2010
Part Number	FAR-G5KC-942M50-Y4YW	Version 1.1bc	

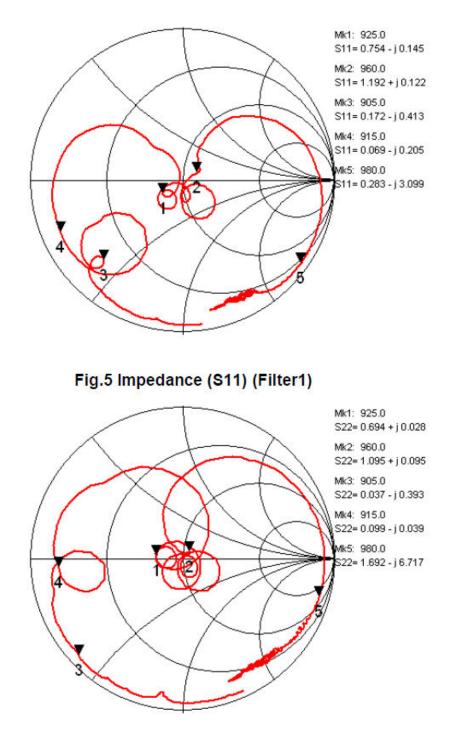
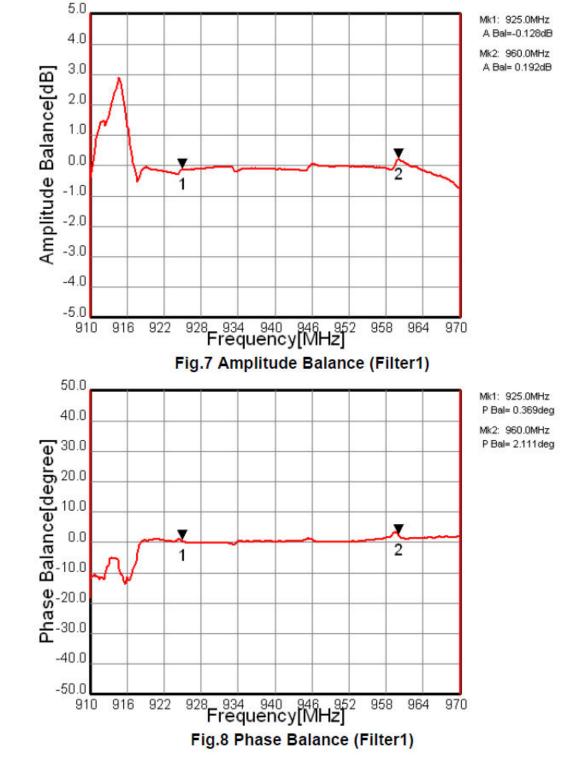


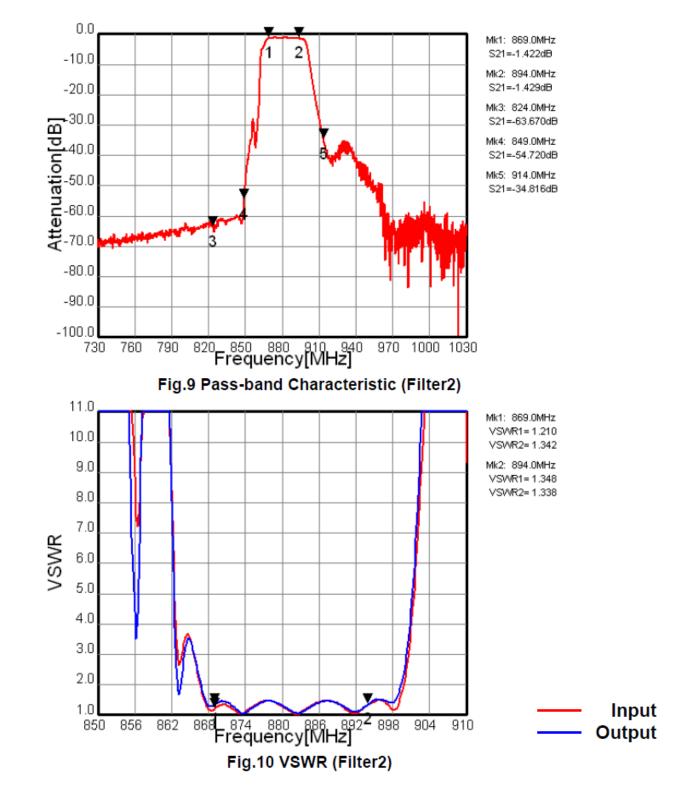
Fig.6 Impedance (S22) (Filter1)



Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co., Ltd.SystemGSM900/GSM850 Rx (50/1500hms)DateMarch 31, 2010Part NumberFAR-G5KC-942M50-Y4YWVersion 1.1bc

RoHS) MSL1

Pb-free Pb Free Part

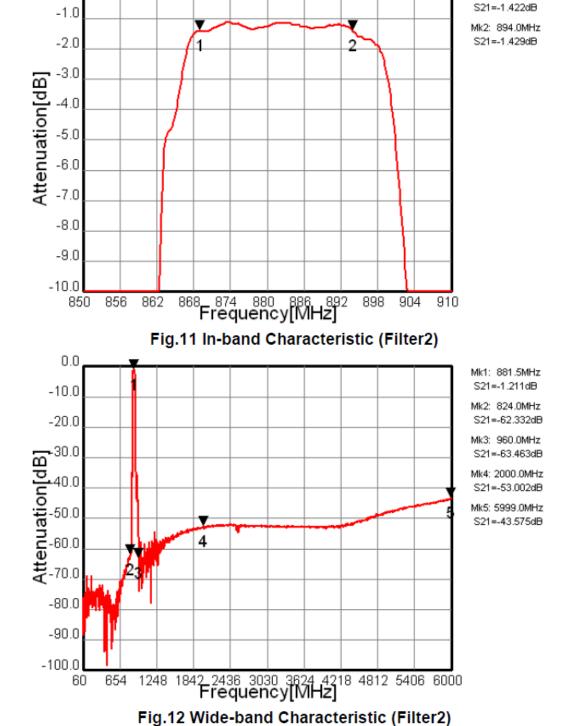


Pb Free Part **Customer Name Standard Specification** TAIYO YUDEN Mobile Technology Co., Ltd. GSM900/GSM850 Rx (50/150ohms) March 31, 2010 System Date Part Number FAR-G5KC-942M50-Y4YW Version 1.1bc

MSL1

RoHS

Pb-free



Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemGSM900/GSM850 Rx (50/150ohms)DateMarch 31, 2010Part NumberFAR-G5KC-942M50-Y4YWVersion 1.1bc

Mk1: 869.0MHz

MSL1

RoHS

0.0

Pb-free Pb Free Part Pb-free Pb Free Part



Customer NameStandard SpecificationTAIYO YUDEN Mobile Technology Co.,Ltd.SystemGSM900/GSM850 Rx (50/1500hms)DateMarch 31, 2010Part NumberFAR-G5KC-942M50-Y4YWVersion 1.1bcVersion 1.1bc

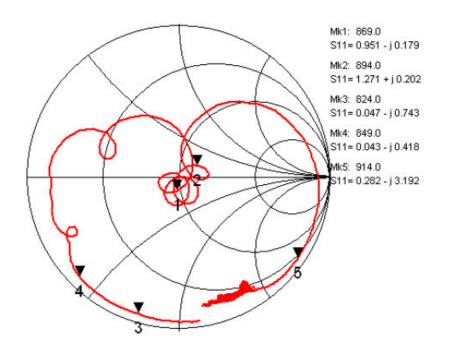


Fig.13 Impedance (S11) (Filter2)

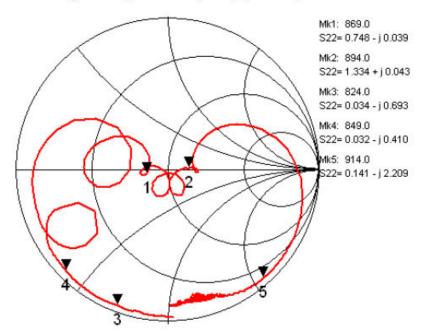
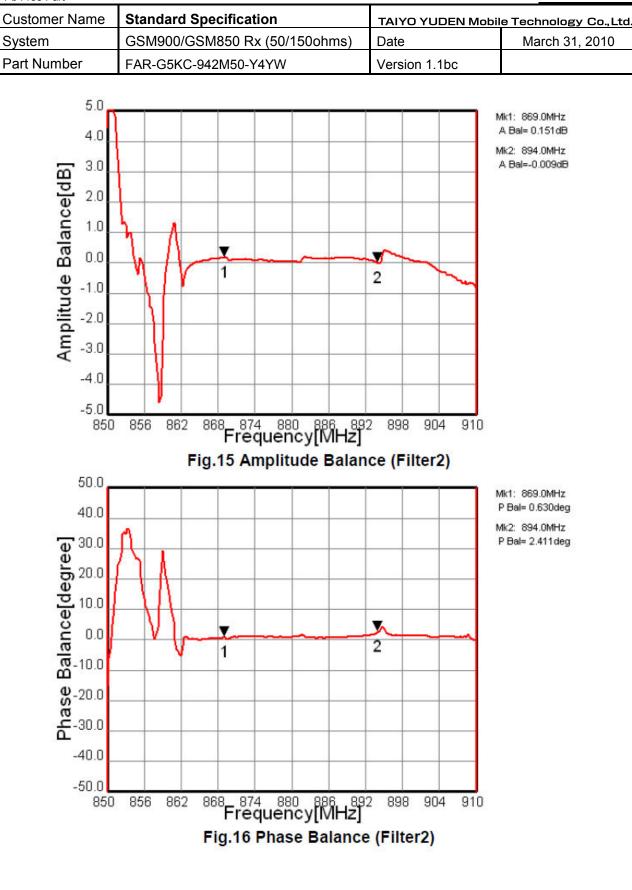


Fig.14 Impedance (S22) (Filter2)





RoHS

Pb Free Part