

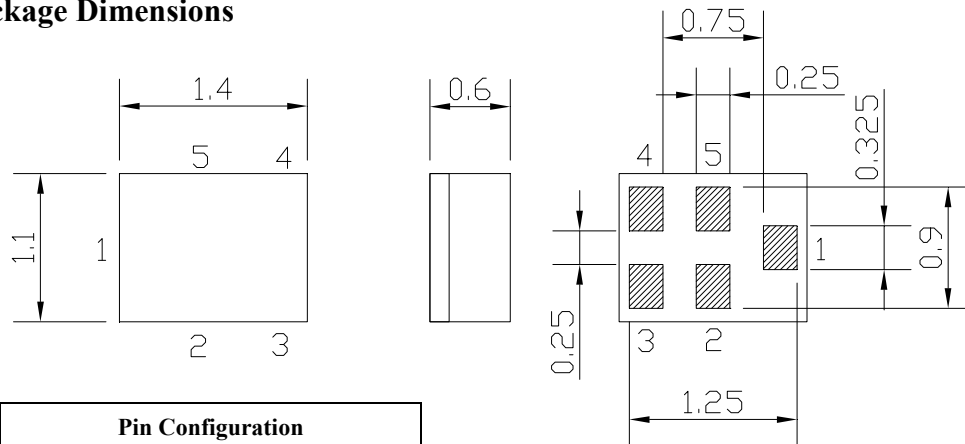
SAW Bandpass Filter F1G14



Features

- RF bandpass filter
- Usable bandwidth 25.0 MHz
- Chip Scale Package (CSP) (1.4mm × 1.1mm)
- RoHS Compliant
- AEC-Q200 compliant

Package Dimensions



Pin Configuration	
1	Input
4	Output
2, 3, 5	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	105
Storage Temperature Range	°C	-40	-	105
DC Voltage	V	-	-	10
Power Handling Capability	dBm	-	-	20

Electrostatics Sensitive Device (ESD)

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	FIG14	
		Rev. Date	2019-04-15	
		Rev.	AS02	1/5

SAW Bandpass Filter F1G14




Specifications

$F_c = 1176.45 \text{ MHz}$

		Minimum	Typical	Maximum
Center Frequency (F_c)	MHz	-	1176.45	-
Insertion Loss ($F_c \pm 12.5 \text{ MHz}$)	dB	-	1.9	2.5
Amplitude Ripple ($F_c \pm 12.5 \text{ MHz}$)	dB	-	0.8	1.5
VSWR ($F_c \pm 12.5 \text{ MHz}$)		-	1.5	2.0
Absolute attenuation				
D.C. ~ 1140.0 MHz	dB	35	38	-
1215.0 ~ 2000.0 MHz		30	38	-
2000.0 ~ 3000.0 MHz		32	38	-
3000.0 ~ 6000.0 MHz		35	40	-
		25	30	-
Input/Output impedance	Ohm	-	50	-

Notes :

- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

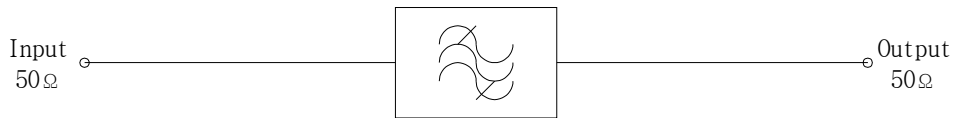
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	FIG14	
		Rev. Date	2019-04-15	
		Rev.	AS02	2/5

SAW Bandpass Filter F1G14



Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)




Marking Configuration

- 37¹⁾
- 2)

1) Part number

2) Dot marking, indicates input 1

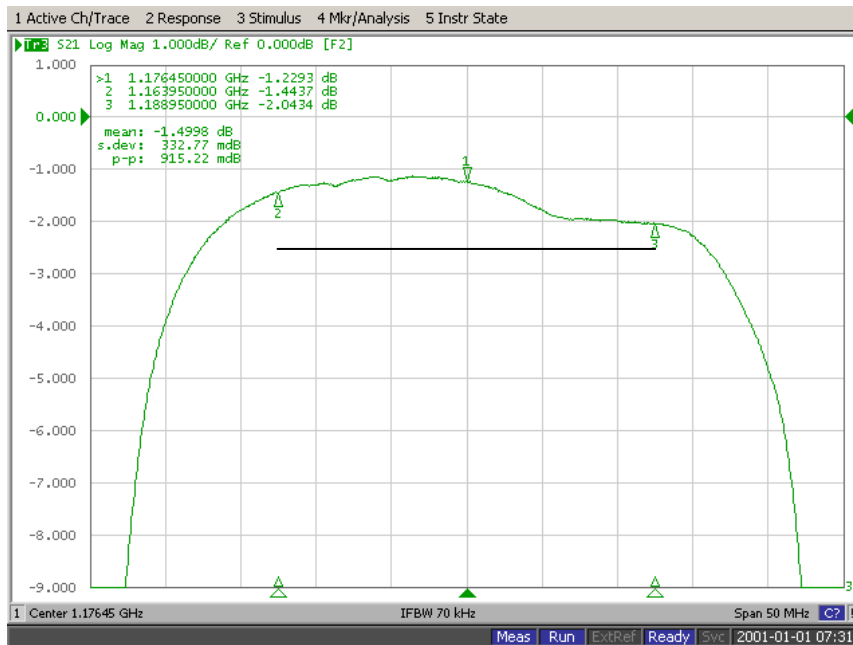
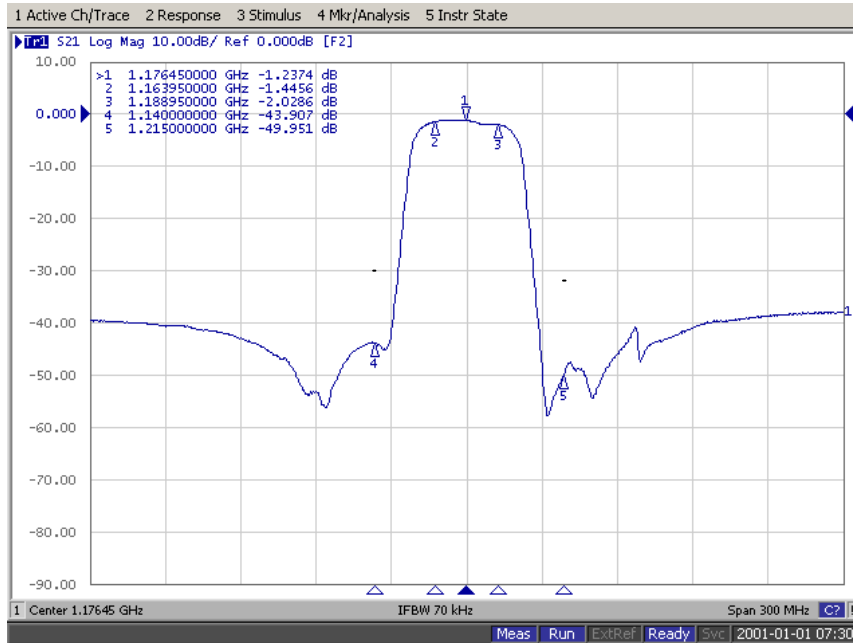
* Ink or Laser Marking available

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		Rev. Date	2019-04-15	
		Rev.	AS02	3/5

SAW Bandpass Filter F1G14



Typical Performance (at 25°C)



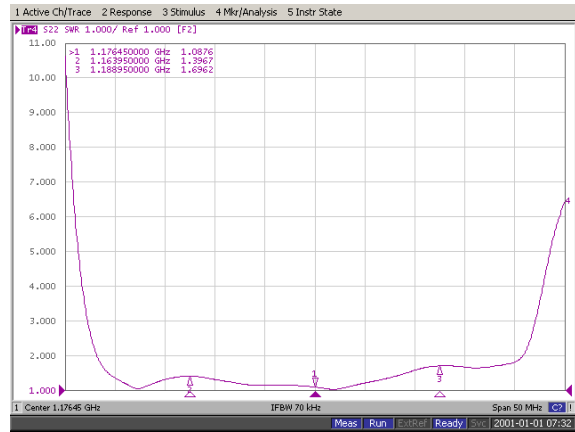
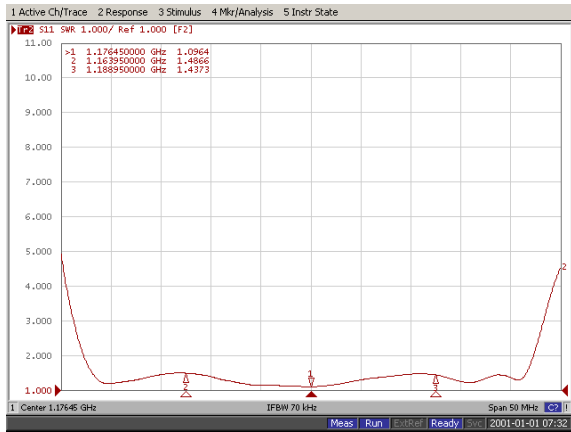
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Part No.	FIG14	
Rev. Date	2019-04-15	
Rev.	AS02	4/5

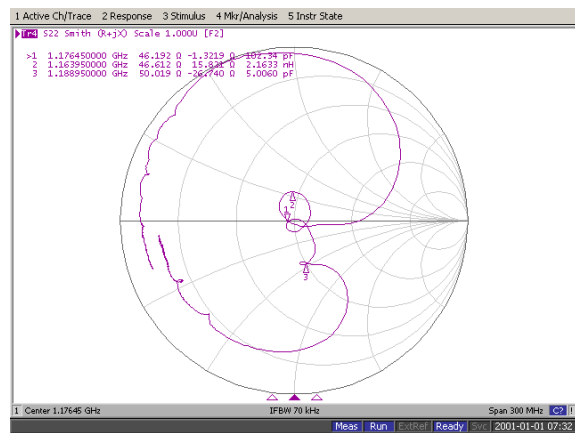
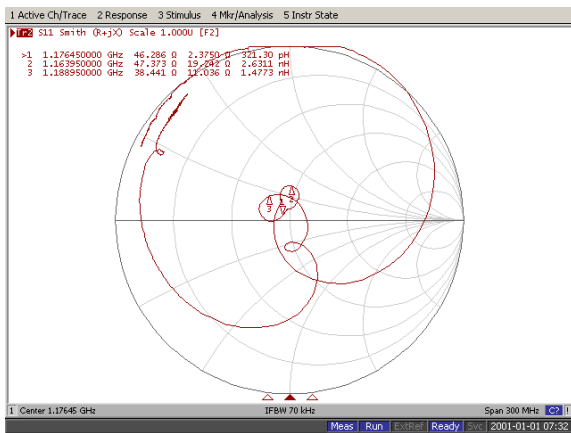
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Input / Output VSWR Charts



Input / Output Smith Charts



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Part No.	FIG14	
Rev. Date	2019-04-15	
Rev.	AS02	5/5