

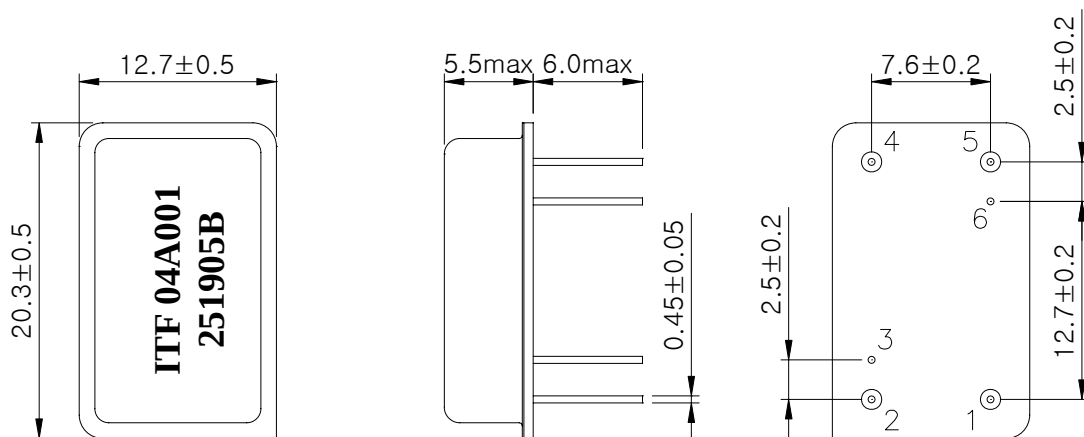
SAW Bandpass Filter 251905B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D2012

Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Pin Configuration	
1	Input
5	Output
2, 4	Ground
3, 6	Case ground

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251905B	
		Rev. Date	2004-09-23	
		Rev.	NM4017- CS03	1/5

SAW Bandpass Filter 251905B



3. Specifications

Fo = 190.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	189.9	190.0	190.1
Insertion Loss	dB	-	26.0	28.0
1dB Bandwidth	MHz	-	19.0	-
3dB Bandwidth	MHz	19.0	19.4	-
50dB Bandwidth	MHz	-	21.3	21.6
Amplitude Ripple (Fo +/- 9.375 MHz)	dB	-	0.7	1.2
Group Delay Variation (Fo +/- 9.375 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.85	-
Ultimate Rejection	dB	48	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-23	-

Notes :

- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

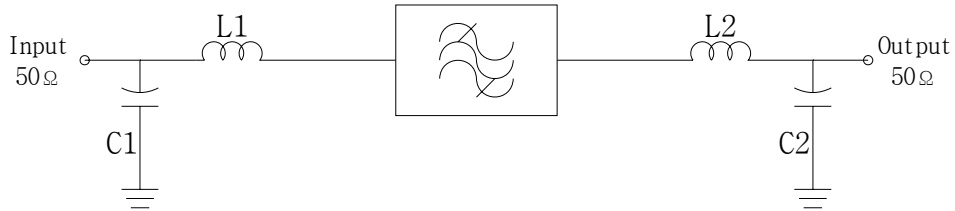
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251905B	
		Rev. Date	2004-09-23	
		Rev.	NM4017- CS03	2/5

SAW Bandpass Filter 251905B



4. Matching Schematic

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



L1 = 33 nH, L2 = 27 nH
C1 = 36 pF, C2 = 43 pF

5. Marking Configuration

ITF¹⁾ 04A001²⁾
251905B³⁾

1) Manufacturer name

2) Lot Number

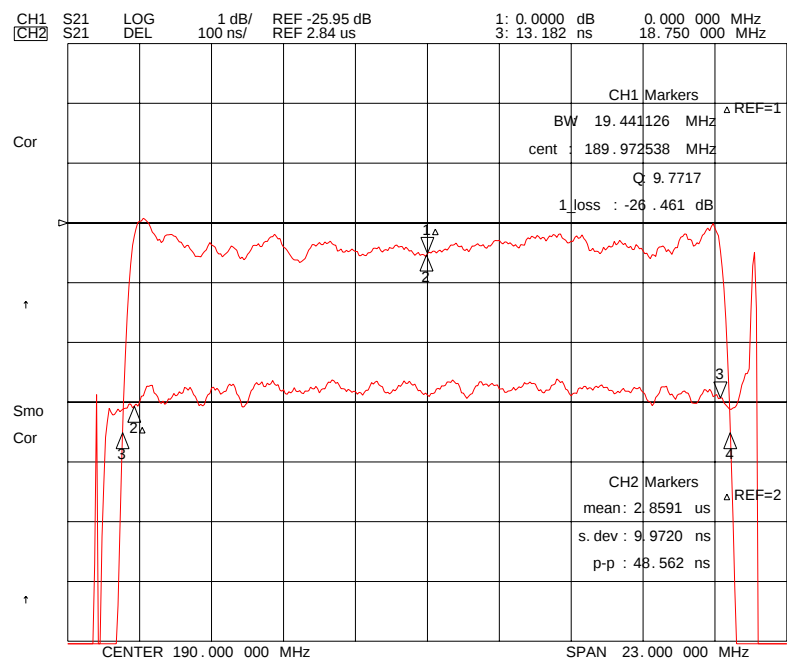
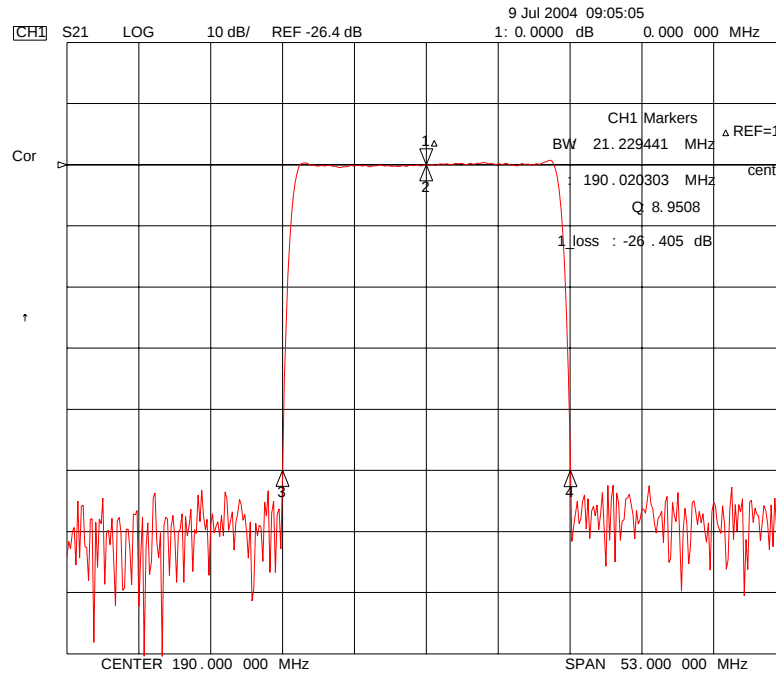
3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251905B	
		Rev. Date	2004-09-23	
		Rev.	NM4017- CS03	3/5

SAW Bandpass Filter 251905B



6. Typical Performance (at +25 °C)



ITF Co., Ltd.
102-901, Bucheon Technopark 364,
Samjeong-Dong, Ojeong-Gu, Bucheon-City,
Gyeonggi-Do, Korea 421-809

Part No.

251905B

Rev. Date

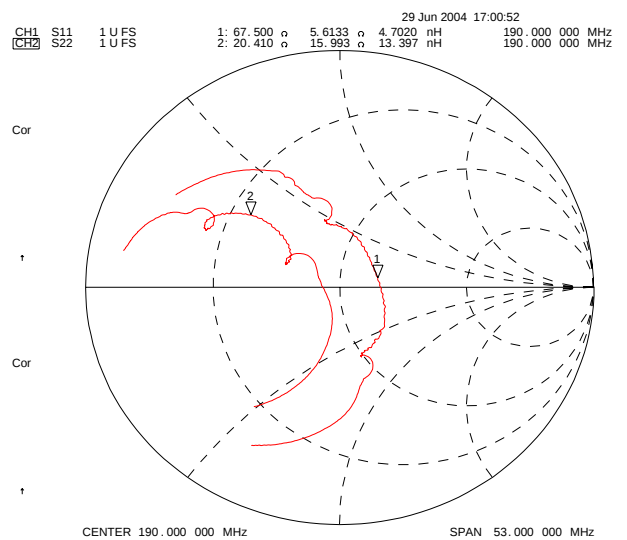
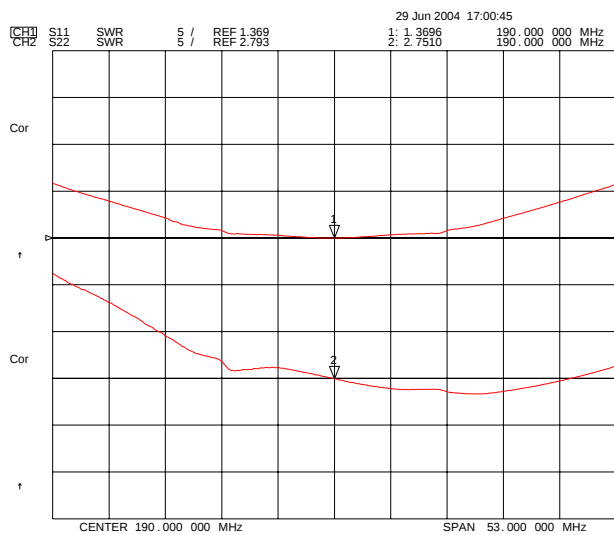
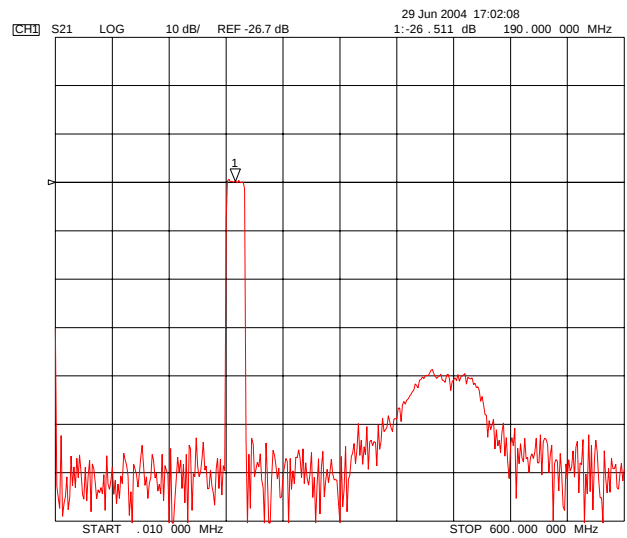
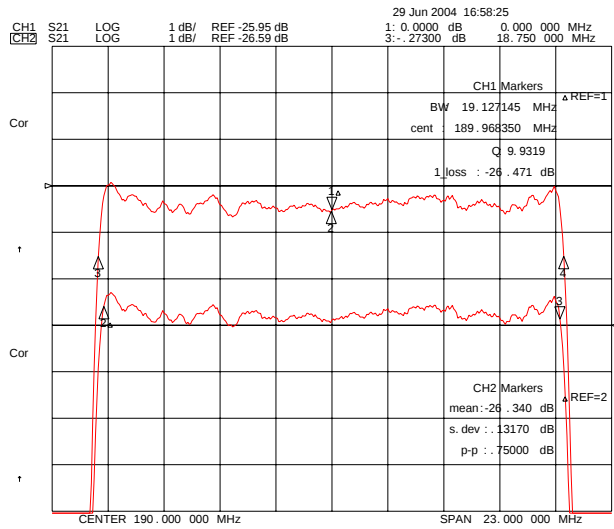
2004-09-23

Rev.

NM4017- CS03

4/5

SAW Bandpass Filter 251905B



ITF Co., Ltd.
102-901, Bucheon Technopark 364,
Samjeong-Dong, Ojeong-Gu, Bucheon-City,
Gyeonggi-Do, Korea 421-809

Part No.

251905B

Rev. Date

2004-09-23

Rev.

NM4017- CS03

5/5