

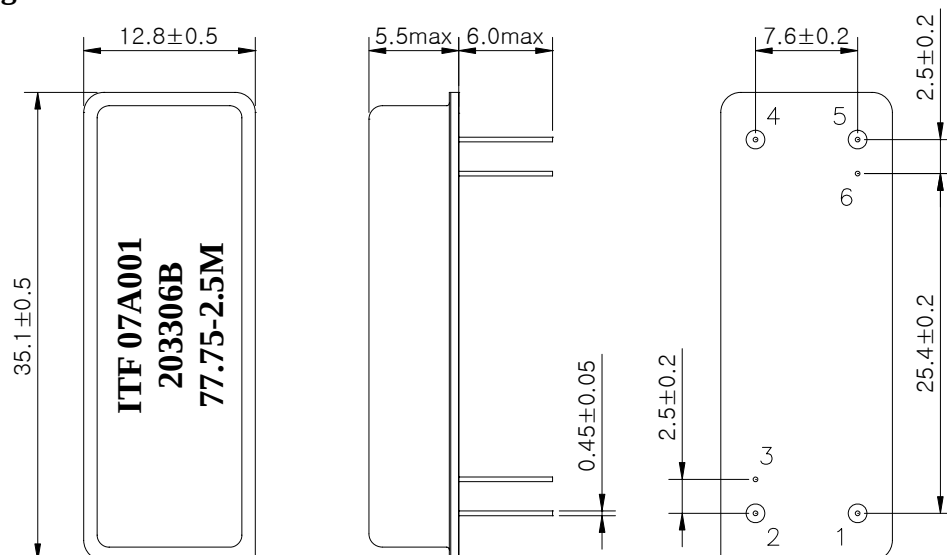
SAW Bandpass Filter 203306B



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 : D3512

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



ITF Co., Ltd.

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

Part No.

203306B

Rev. Date

2007-09-17

Rev.

NM7041-CS01

1/5

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3. Specifications

Fo = 77.75 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	77.75	-
Insertion Loss	dB	-	22.2	25.5
1dB Bandwidth	MHz	-	2.52	-
3dB Bandwidth	MHz	2.6	2.7	-
40dB Bandwidth	MHz	-	3.47	3.7
Amplitude Ripple (fo±1.125 MHz)	dB	-	0.6	1.0
Group Delay Variation (fo±1.125 MHz)	nsec	-	160	300
Absolute Delay	usec	-	4.85	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/℃	-	-18	-

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

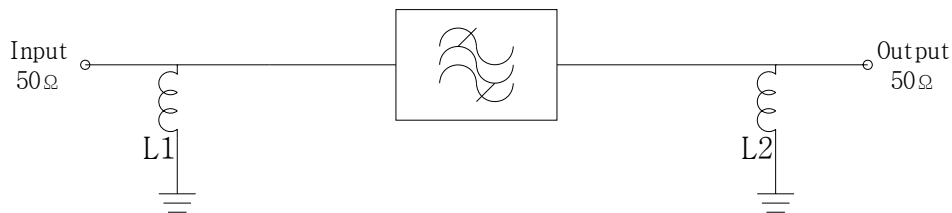
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203306B	
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4. Matching Schematic

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



$L1 = 39\text{nH}$, $L2 = 68\text{nH}$

5. Marking Configuration

ITF¹⁾ 07A001²⁾

203306B³⁾

77.75⁴⁾-2.5M⁵⁾

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center Frequency

5) 1dB-Bandwidth

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203306B	
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[CH1] S21 LOG 10 dB/ REF -22.31 dB 1: 0.0000 dB 0.000 000 MHz

* CH1 Markers

Cor BW 3.475156 MHz Δ REF=

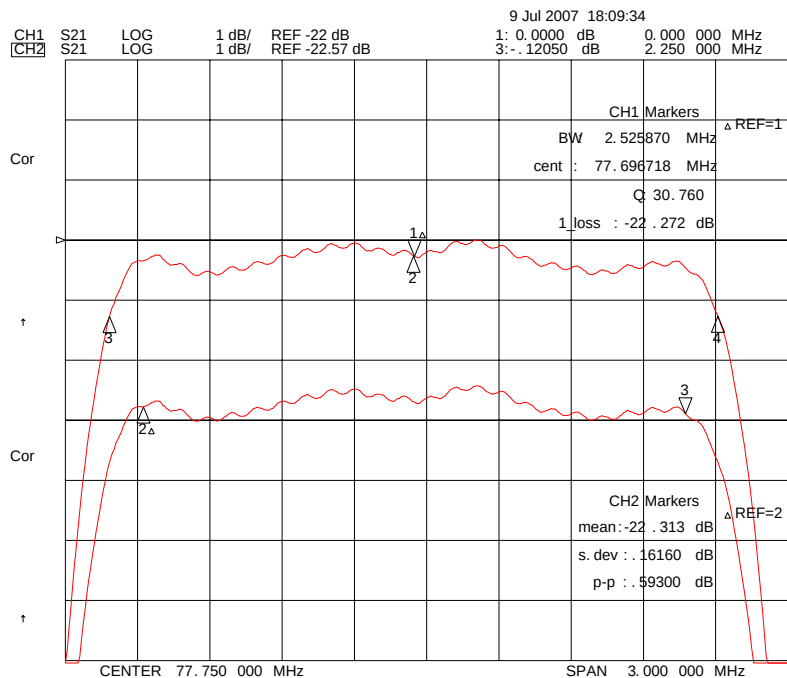
cent : 77.702950 MHz

Q 22.360

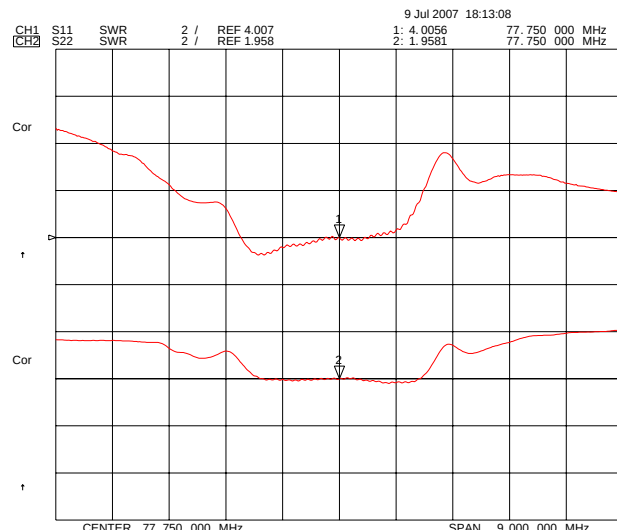
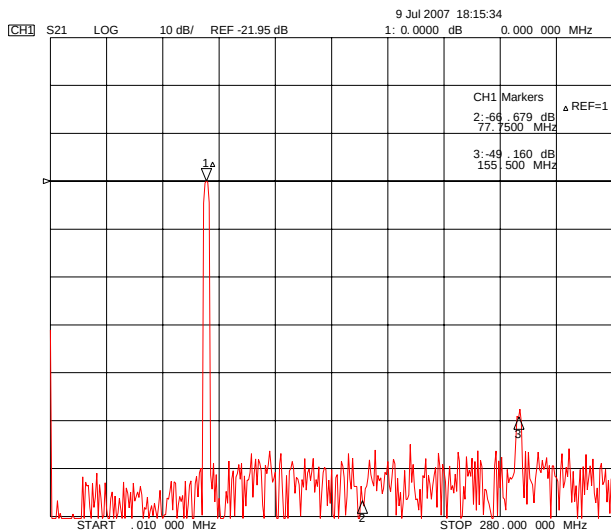
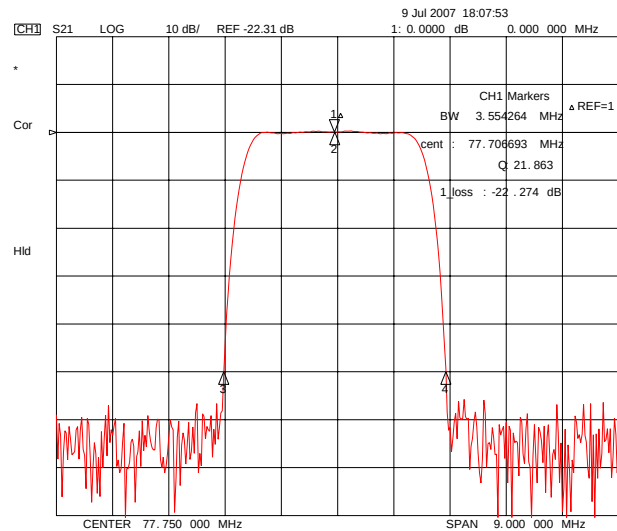
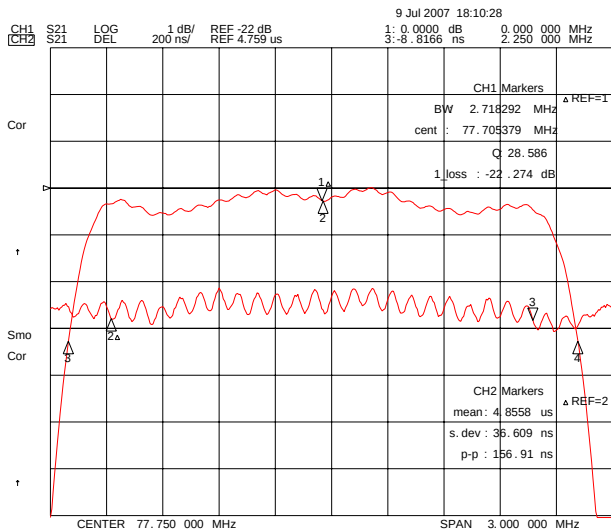
1_loss : -22.274 dB

Hld

CENTER 77.750 000 MHz SPAN 9.000 000 MHz



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