

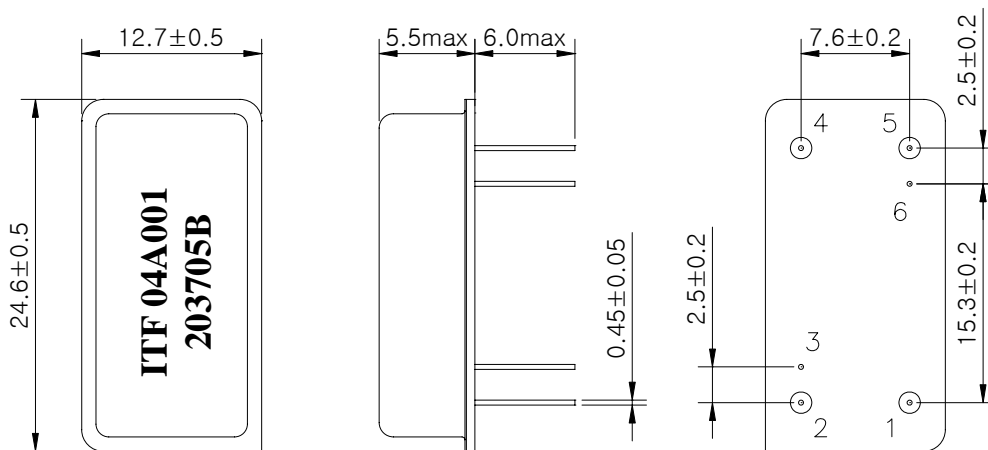
SAW Bandpass Filter 203705B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40°C ~ 85°C
- Electrostatics Sensitive Device (ESD)


2. Package Dimension



Package : D2512

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.	203705B	
		Rev. Date	2004-05-04	
		Rev.	NW3013-CS03	1/5

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3. Specifications

Fo = 212.5 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : 20°C ~ 50°C		Minimum	Typical	Maximum
Center Frequency	MHz	212.42	212.5	212.58
Insertion Loss	dB	-	21.0	25.0
1dB Bandwidth	MHz	1.0	1.1	-
3dB Bandwidth	MHz	-	1.3	-
40dB Bandwidth	MHz	-	2.15	2.3
Amplitude Ripple (Fo +/- 0.5 MHz)	dB	-	1.1	1.6
Group Delay Variation (Fo +/- 0.5 MHz)	nsec	-	200	300
Absolute Delay	usec	-	2.94	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

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
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

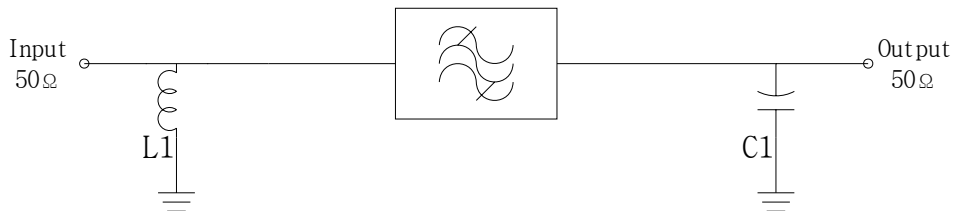
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4. Matching Schematic

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



L1 = 15 nH,

C1 = 18 pF

5. Marking Configuration


ITF¹⁾04A001²⁾

203705B³⁾

1) Manufacturer name

2) Lot Number

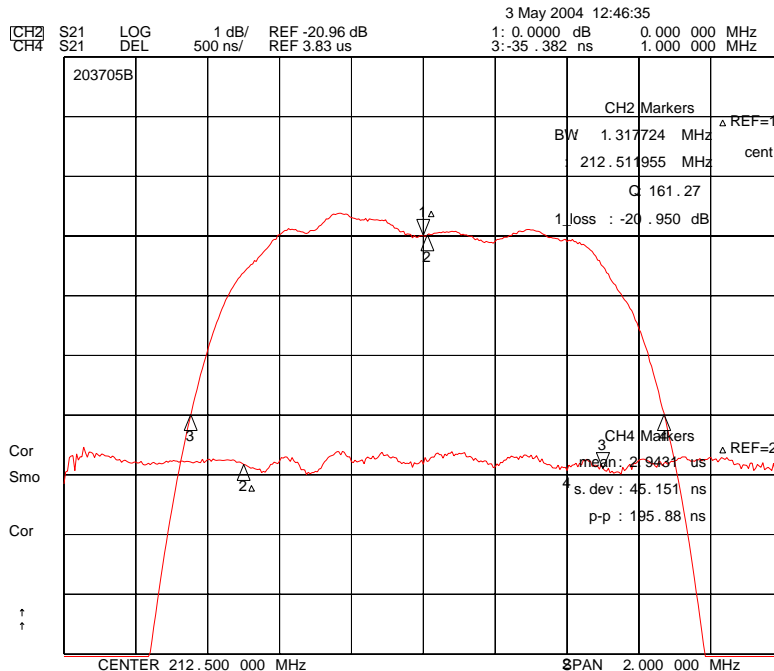
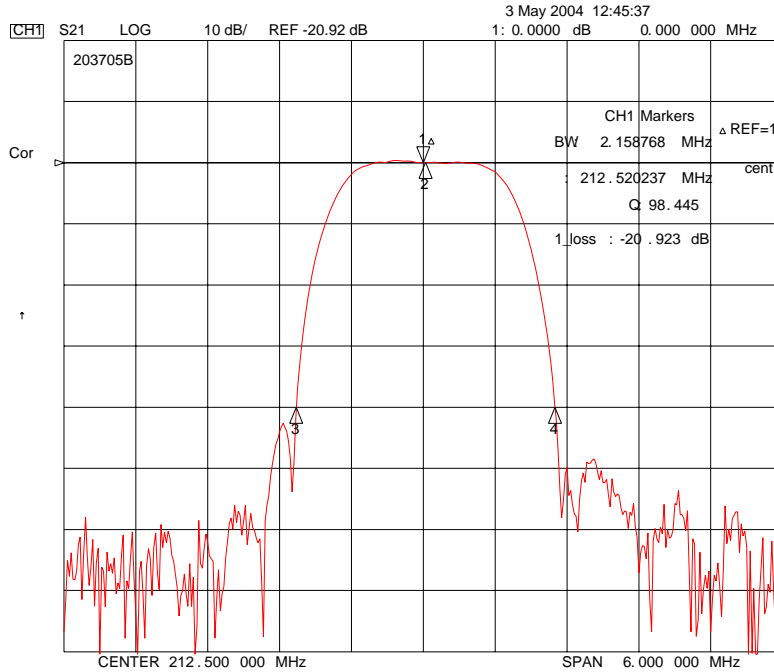
3) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203705B	
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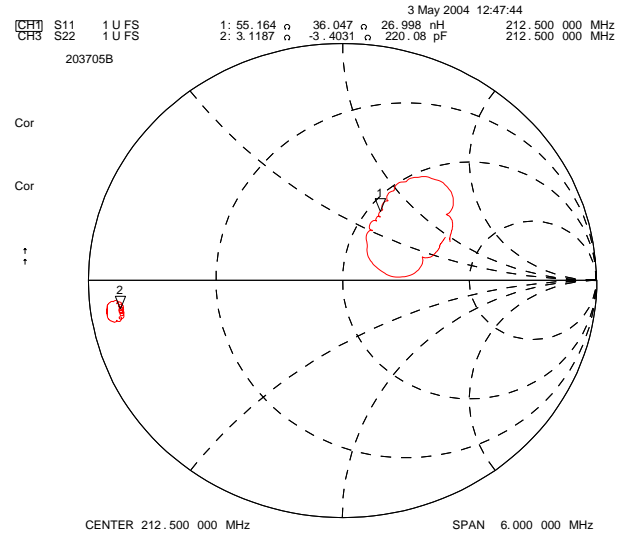
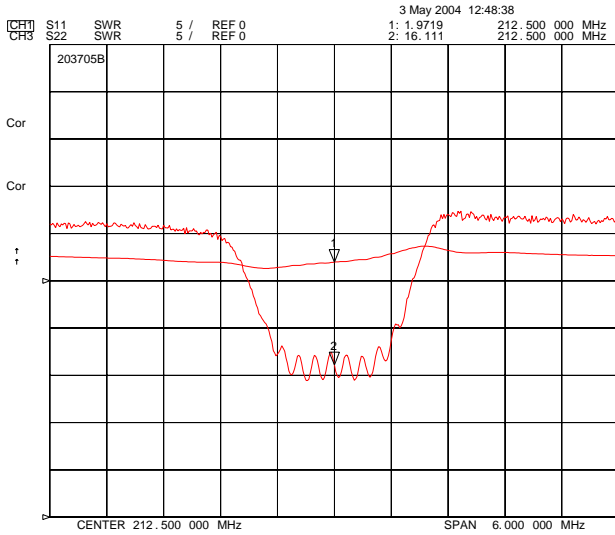
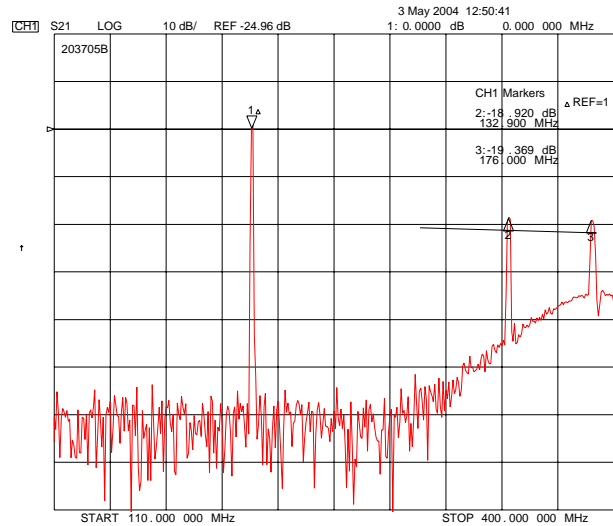
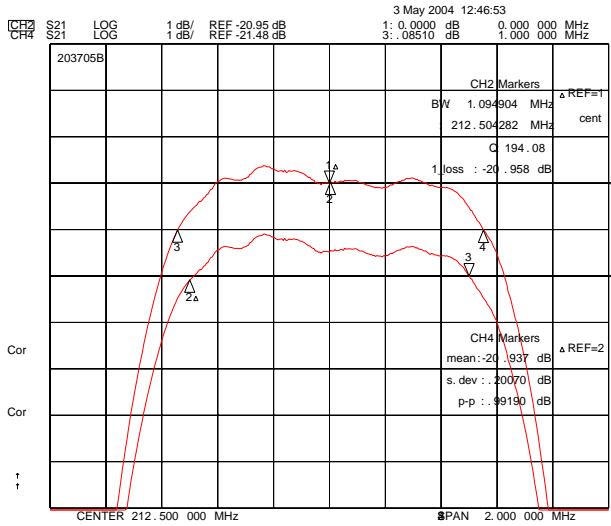
6. Typical Performance (at +25°C)



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