

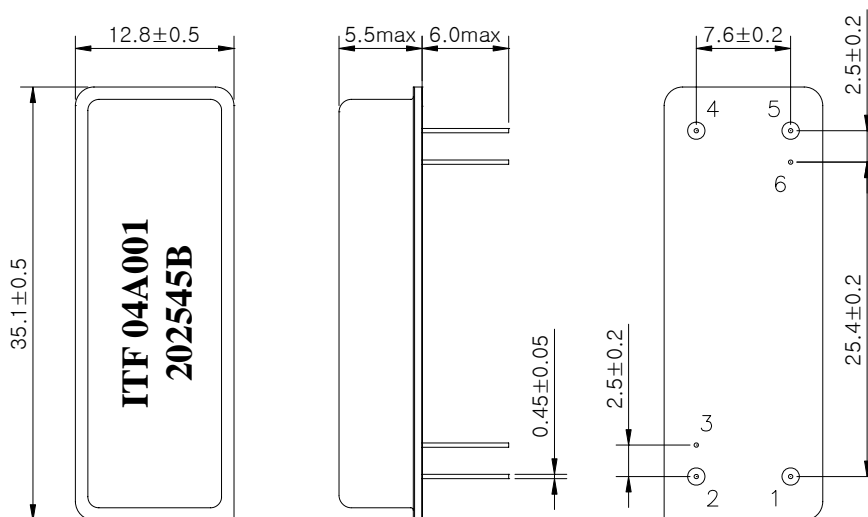
SAW Bandpass Filter 202545B



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 : 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
4	Output
2, 5	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.	202545B	
		Rev. Date	2004-06-08	
		Rev.	NI2025-CS02	1/5

SAW Bandpass Filter 202545B



3. Specifications

Fo = 160.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	159.92	160.0	160.08
Insertion Loss	dB	-	22.5	25.5
1dB Bandwidth	MHz	-	1.25	-
3dB Bandwidth	MHz	1.26	1.39	-
40dB Bandwidth	MHz	-	1.97	2.0
Amplitude Ripple (Fo +/- 0.5 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 0.5 MHz)	nsec	-	250	400
Absolute Delay	usec	-	4.29	-
Ultimate Rejection	dB	45	55	-
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 at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

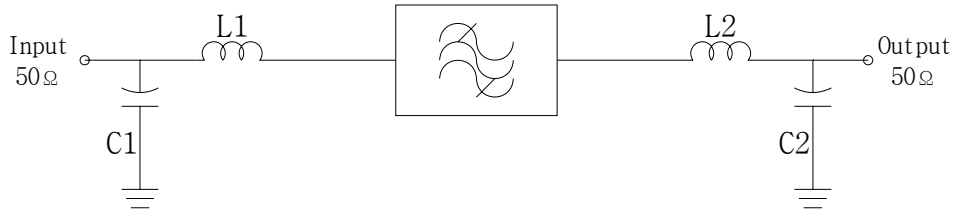
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202545B	
		Rev. Date	2004-06-08	
		Rev.	NI2025-CS02	2/5

SAW Bandpass Filter 202545B



4. Matching Schematic

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



$$L1 = L2 = 22 \text{ nH}$$

$$C1 = C2 = 33 \text{ pF}$$

5. Marking Configuration


ITF¹⁾ 04A001²⁾

202545B³⁾

1) Manufacturer name

2) Lot Number

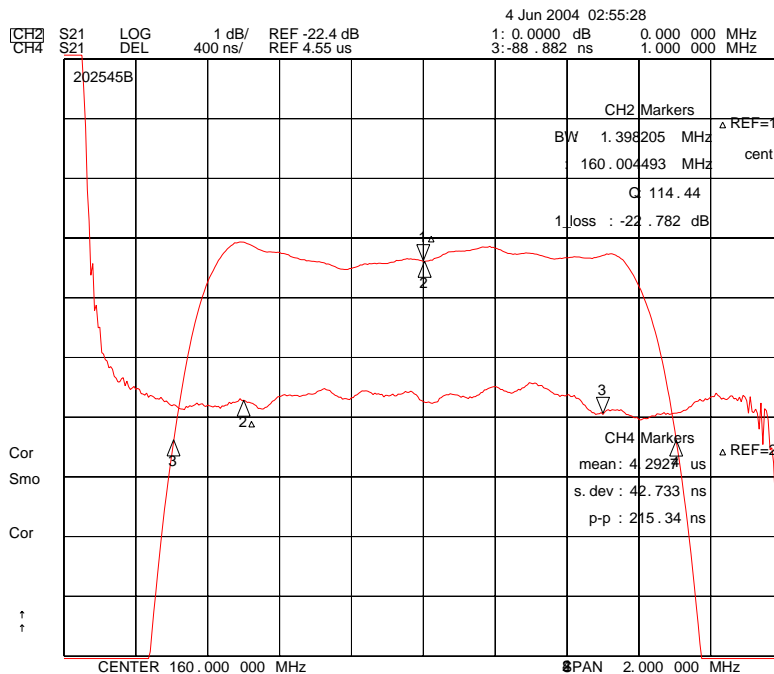
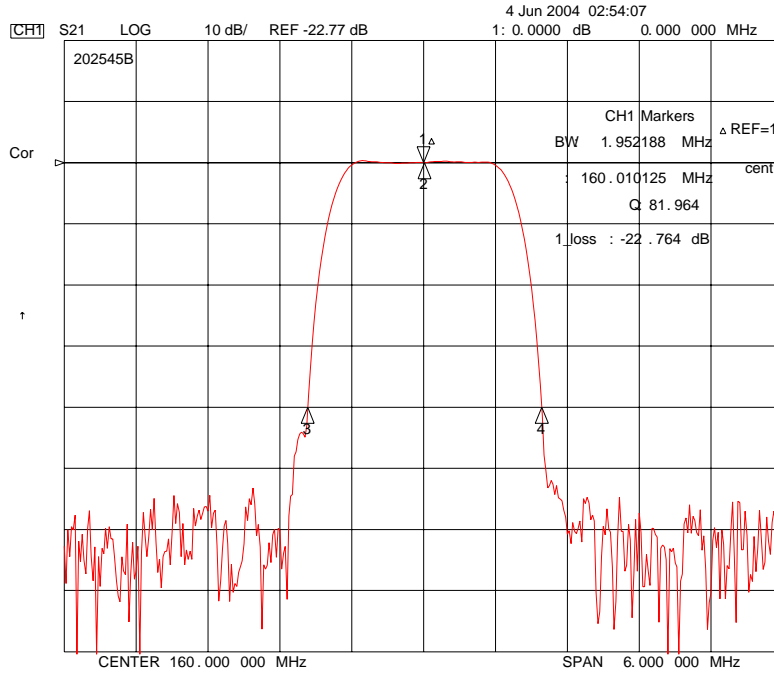
3) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202545B	
		Rev. Date	2004-06-08	
		Rev.	NI2025-CS02	3/5

SAW Bandpass Filter 202545B



6. Typical Performance (at +25°C)



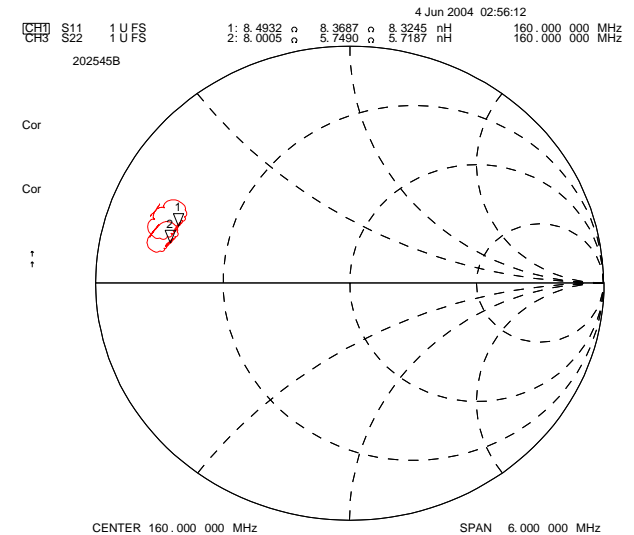
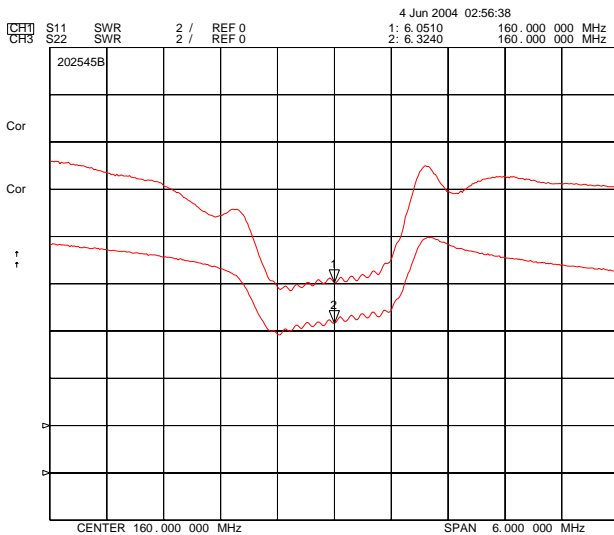
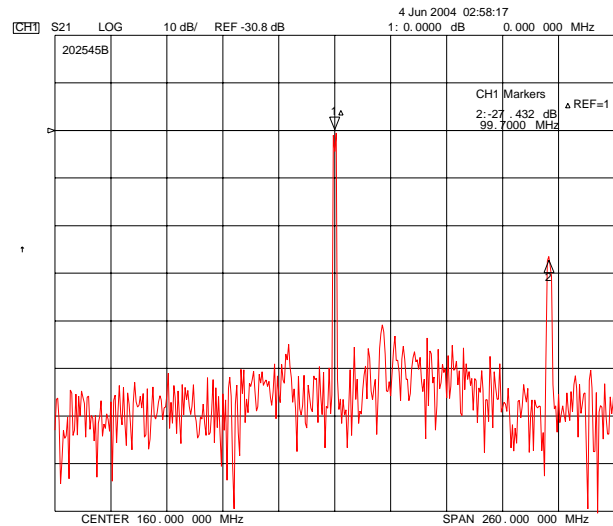
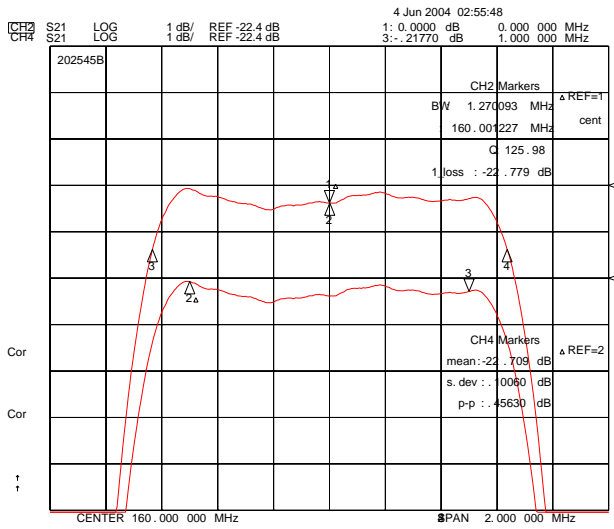
ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No. 202545B

Rev. Date 2004-06-08

Rev. NI2025-CS02 4/5

SAW Bandpass Filter 202545B



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

Part No.	202545B	
Rev. Date	2004-06-08	
Rev.	NI2025-CS02	5/5