

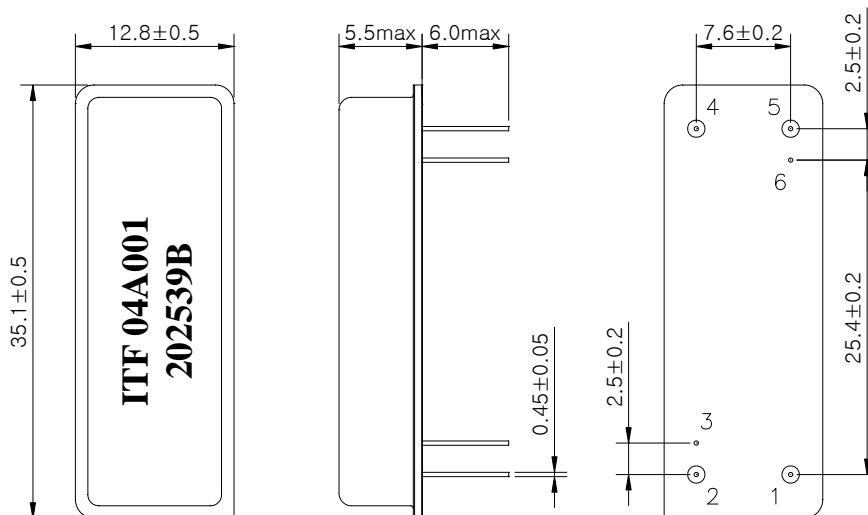
SAW Bandpass Filter 202539B



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
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.	202539B	
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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	159.88	160.0	160.12
Insertion Loss	dB	-	27.5	28.5
1dB Bandwidth	MHz	-	9.15	-
3dB Bandwidth	MHz	9.40	9.45	-
40dB Bandwidth	MHz	-	10.47	10.5
Amplitude Ripple (Fo +/- 4.375 MHz)	dB	-	1.0	1.2
Group Delay Variation (Fo +/- 4.375 MHz)	nsec	-	60	150
Absolute Delay	usec	-	3.46	-
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

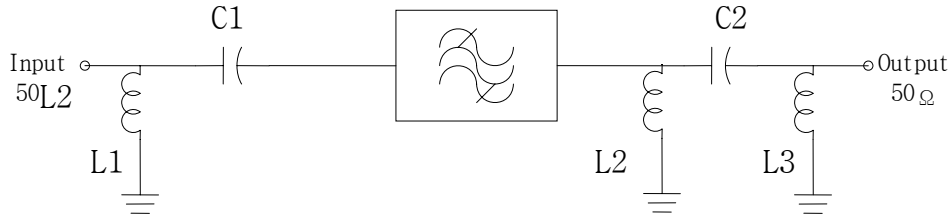
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202539B	
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4. Matching Schematic

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




$$C1 = C2 = 68 \text{ pF}$$

$$L1 = L2 = L3 = 47 \text{ nH}$$

5. Marking Configuration

ITF¹⁾04A001²⁾
202539B³⁾

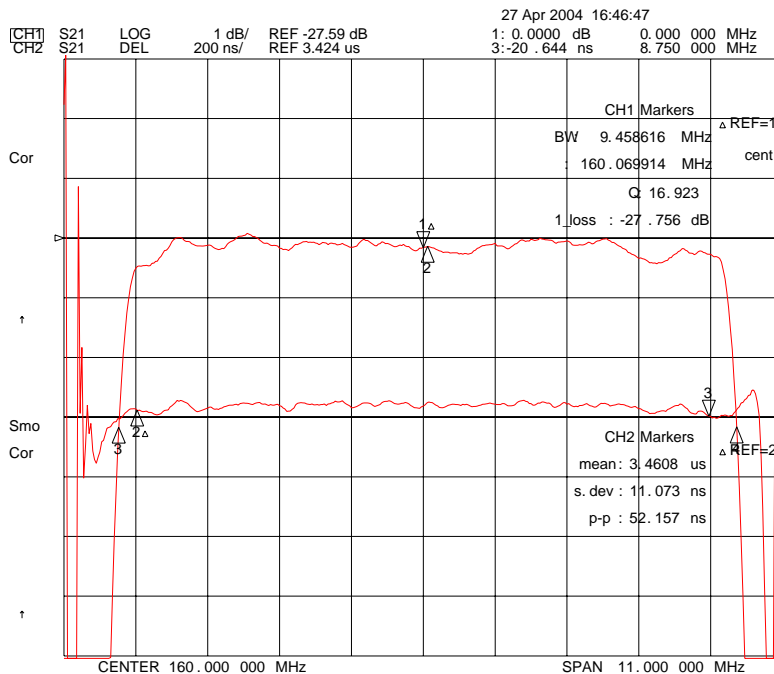
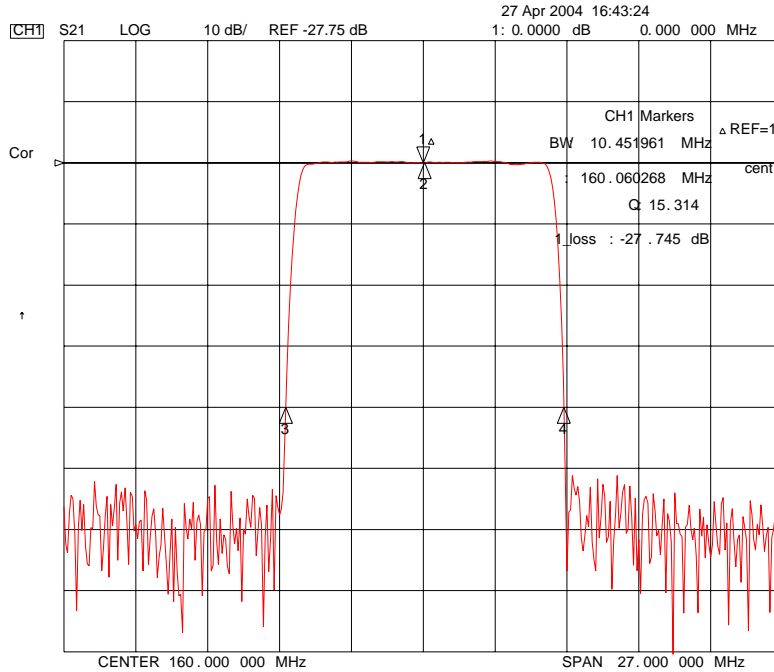
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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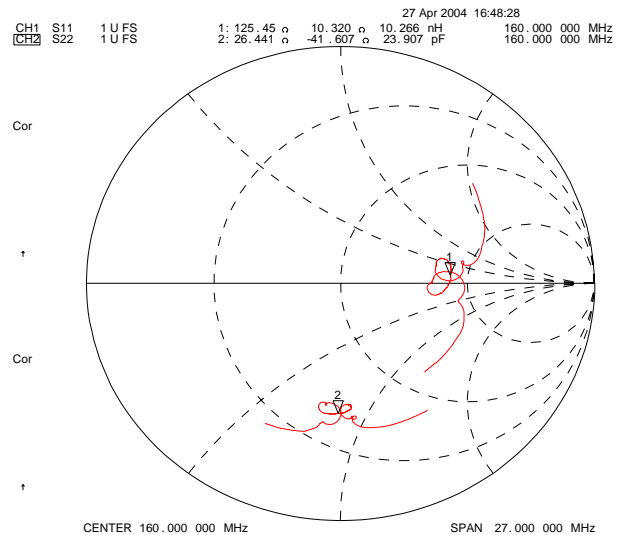
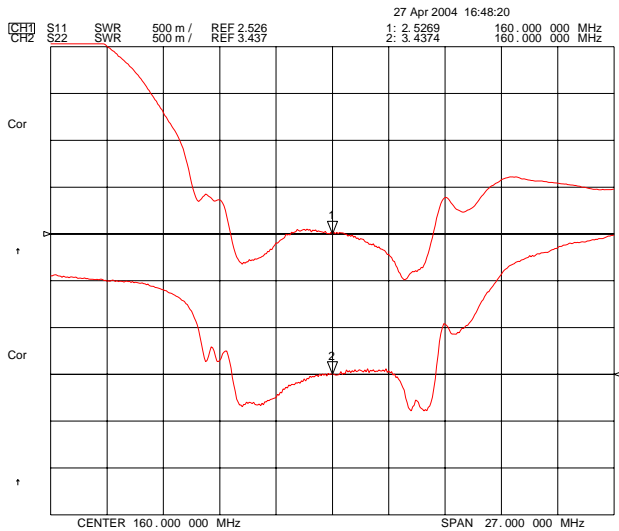
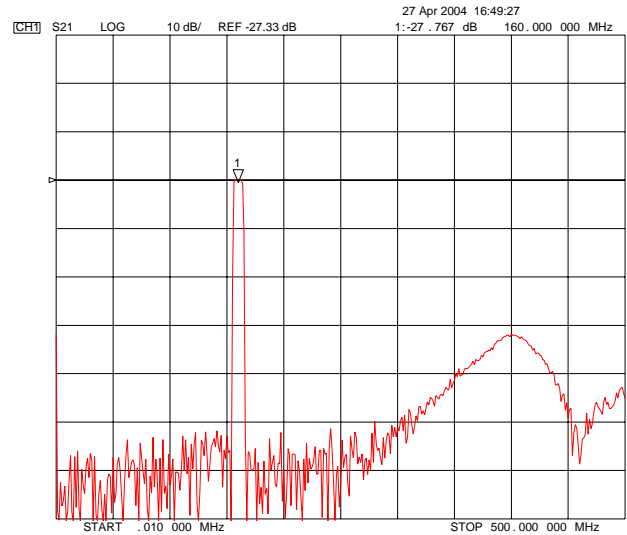
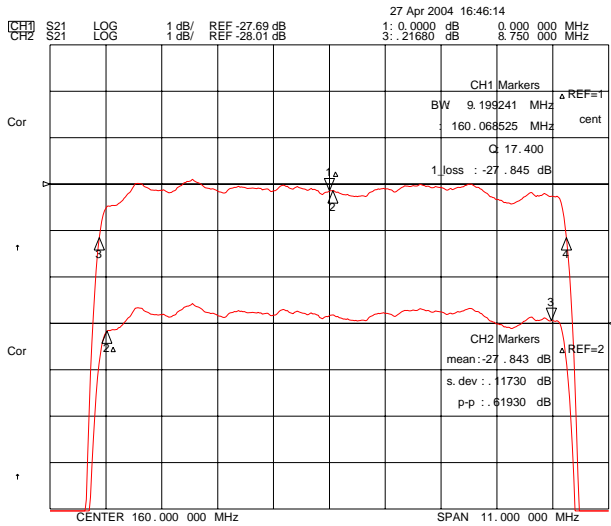
6. Typical Performance (at +25°C)



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