

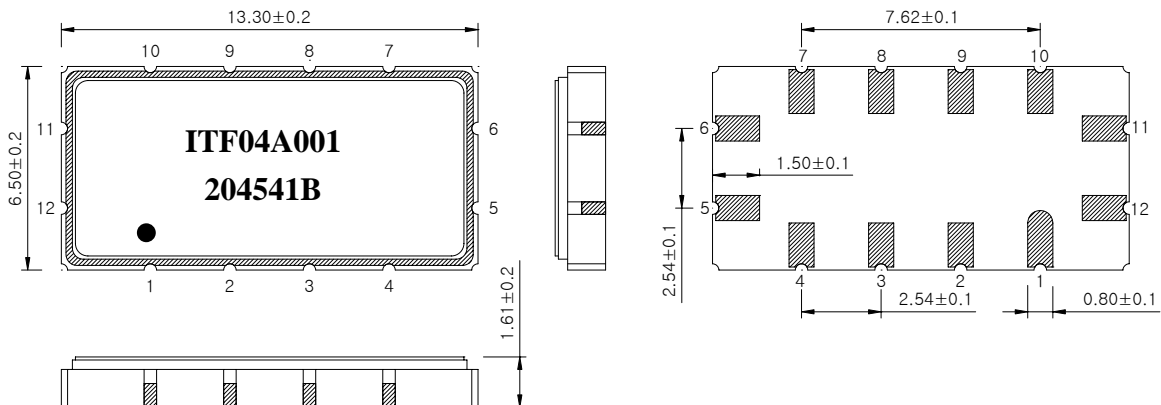
SAW Bandpass Filter 204541B



1. Features

- IF Bandpass Filter
- Low-Loss Filter
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

Pad Configuration	
11	Input
5	Output
6, 12	Ground
Other	Case ground



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

Part No.	204541B	
Rev. Date	2004-04-07	
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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	159.85	160.0	160.15
Insertion Loss	dB	-	16.0	17.5
1dB Bandwidth	MHz	8.8	9.1	-
3dB Bandwidth	MHz	9.4	9.7	-
40dB Bandwidth	MHz	-	11.4	11.75
Amplitude Ripple (Fo +/- 4.375 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 4.375 MHz)	nsec	-	140	200
Absolute Delay	usec	-	1.49	-
Ultimate Rejection	dB	40	45	-

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

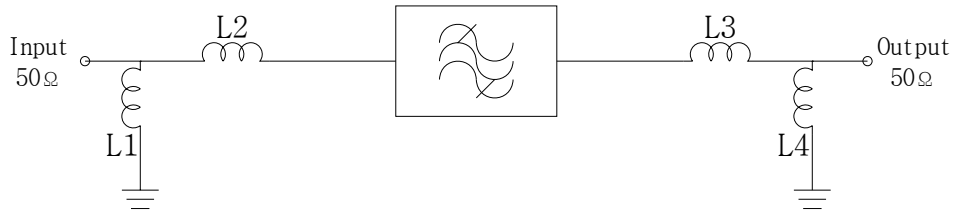
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	204541B	
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4. Matching Schematic

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



L2 = 18 nH, L3 = 27 nH
 L1 = 18 nH, L4 = 27 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾

204541B³⁾

● ⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

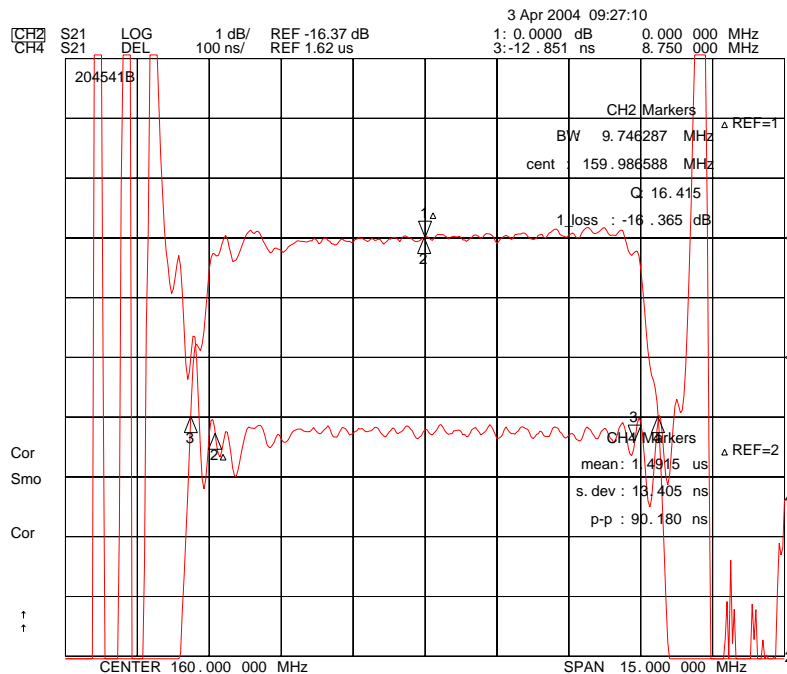
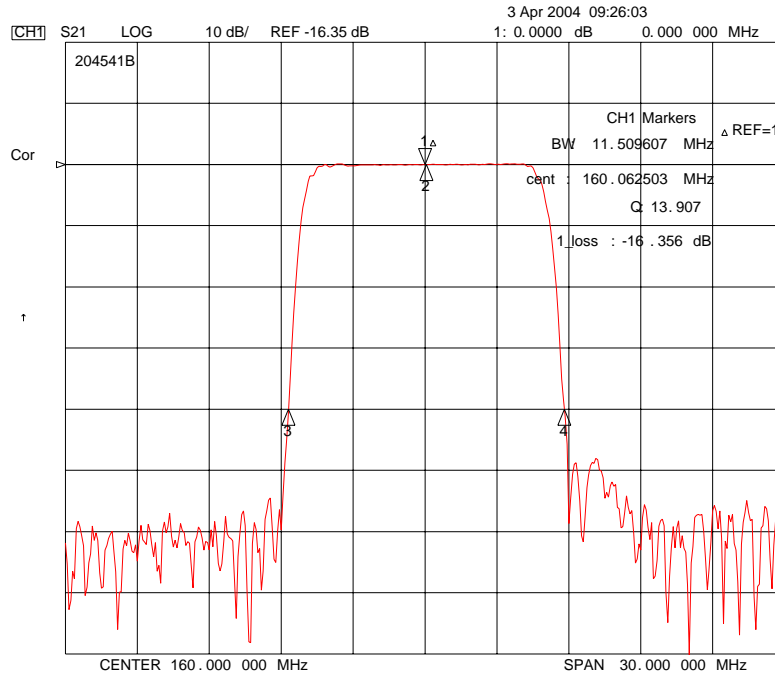
4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



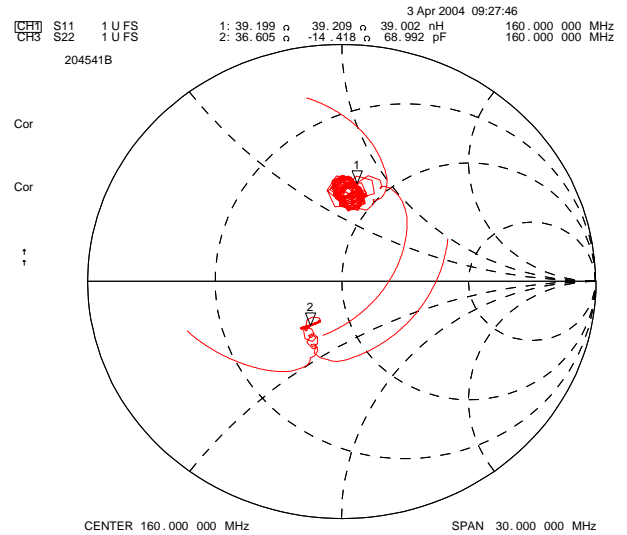
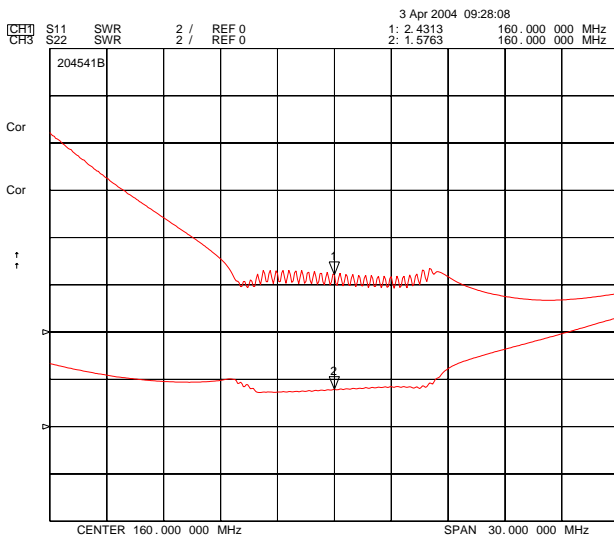
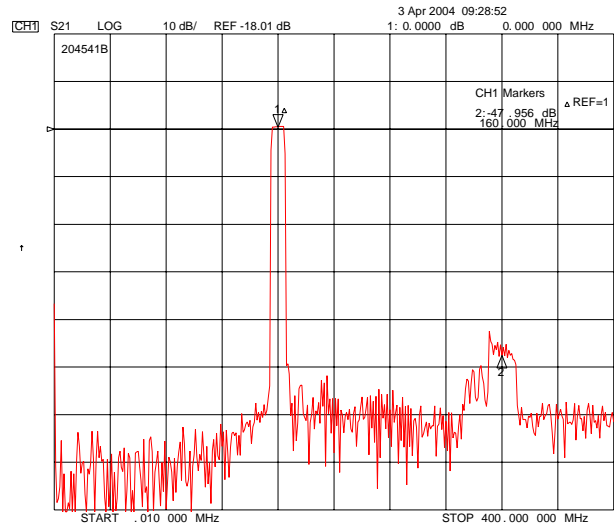
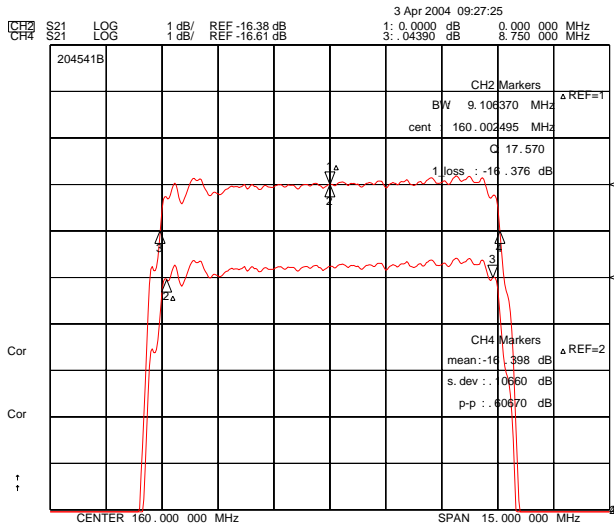
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