

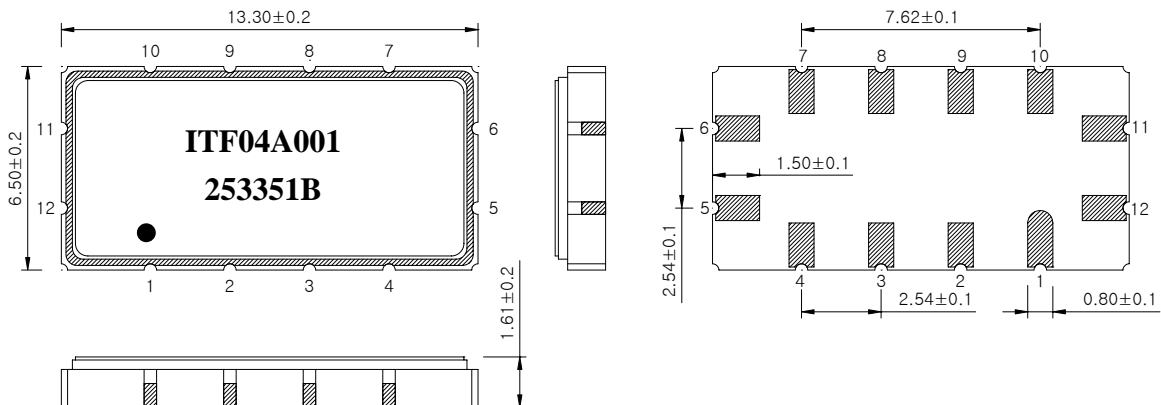
SAW Bandpass Filter 253351B



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.	253351B	
Rev. Date	2004-04-28	
Rev.	NJ3011-CS02	1/5

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3. Specifications

Fo = 140.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -10°C ~ +60°C		Minimum	Typical	Maximum
Center Frequency	MHz	139.6	140.0	140.4
Insertion Loss	dB	-	12.0	13.0
1dB Bandwidth	MHz	30.0	31.9	-
3dB Bandwidth	MHz	32.0	33.4	-
40dB Bandwidth	MHz	-	39.3	41.0
Amplitude Ripple (Fo +/- 12.8 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 12.8 MHz)	nsec	-	30	100
Absolute Delay	usec	-	0.64	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

Room Temperature : +25°C		Minimum	Typical	Maximum
Amplitude Ripple (Fo +/- 15 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 15 MHz)	nsec	-	30	100

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

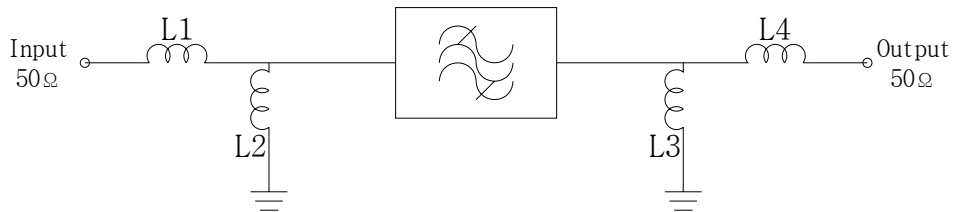
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4. Matching Schematic

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



L1 = 39 nH, L4 = 18 nH
L2 = 68 nH, L3 = 33 nH


5. Marking Configuration

ITF¹⁾04A001²⁾

253351B³⁾

●⁴⁾

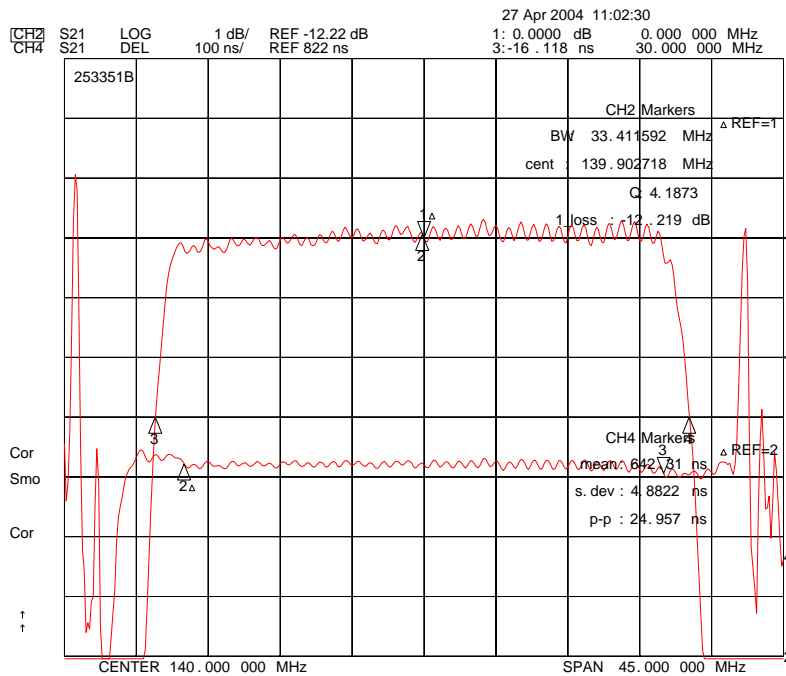
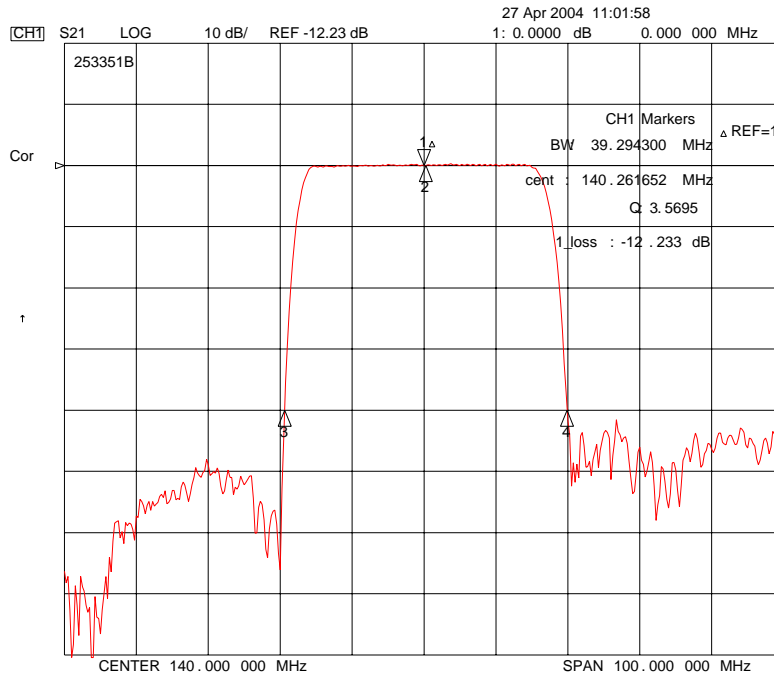
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	253351B	
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6. Typical Performance (at +25°C)



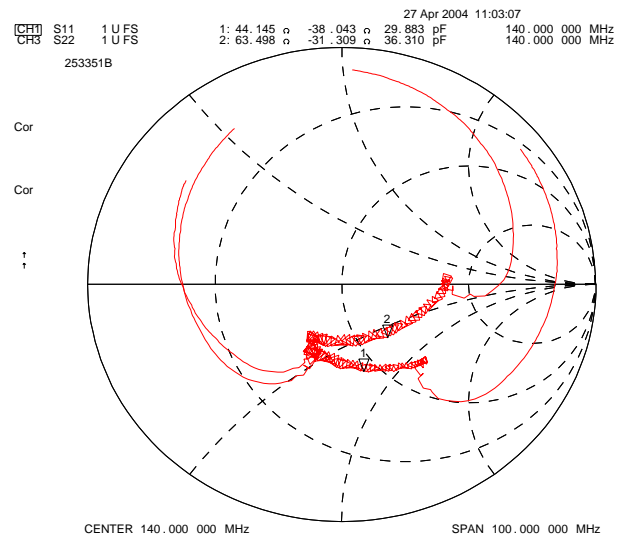
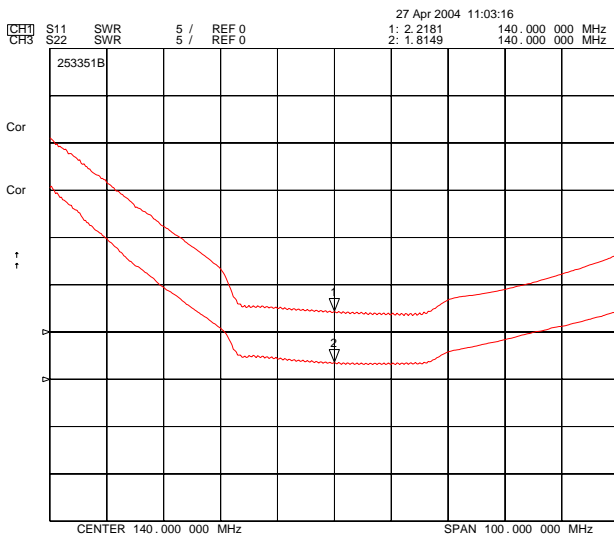
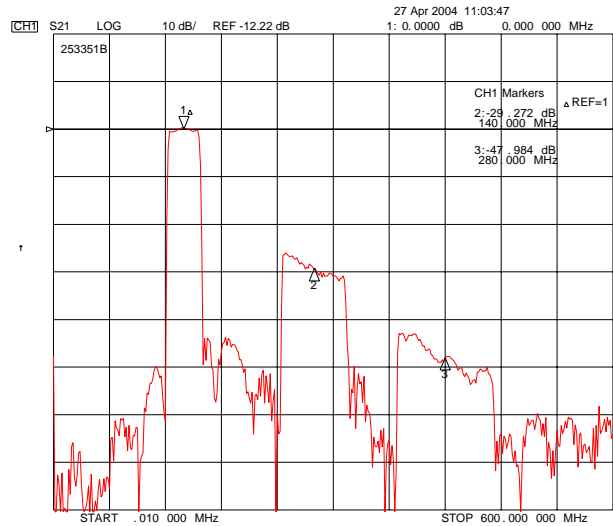
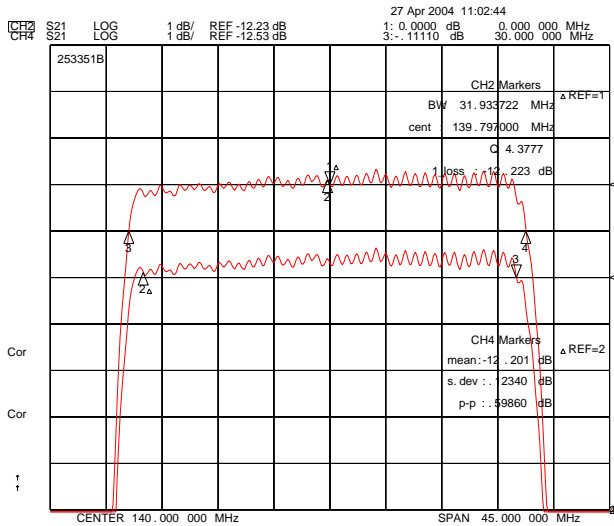
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