

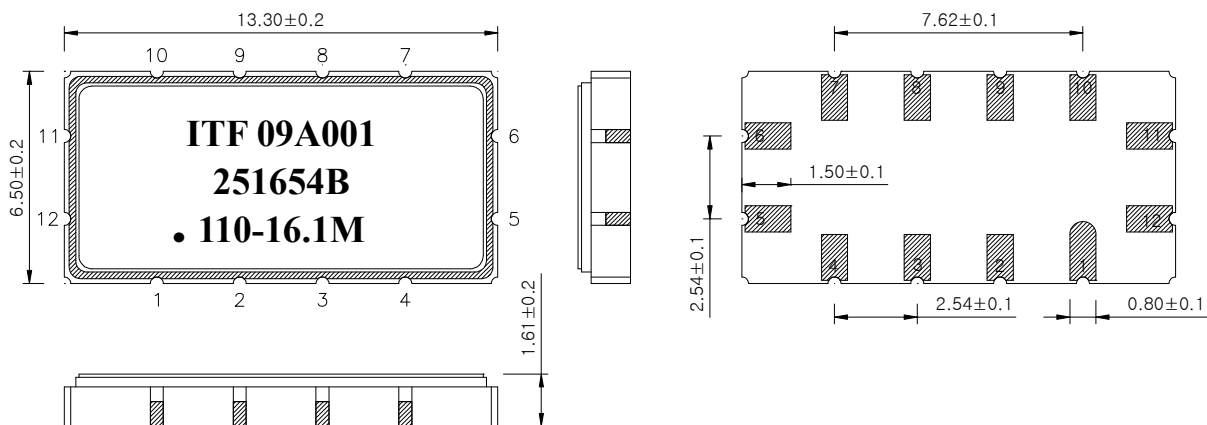
SAW Bandpass Filter 251654B



1. Features

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

2. Package Dimension



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃

Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

Pin 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.	251654B	
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3. Specifications

Fo = 110.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room temperature range : +25℃		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	110.0	-
Insertion Loss	dB	-	20.5	22.0
1dB Bandwidth	MHz	-	16.13	-
3dB Bandwidth	MHz	16.4	16.6	-
40dB Bandwidth	MHz	-	18.53	18.7
Amplitude Ripple (Fo +/- 7.7 MHz)	dB	-	0.55	1.0
Group Delay Variation (Fo +/- 7.7 MHz)	nsec	-	40	80
Absolute Delay	usec	-	1.54	-
Ultimate Rejection	dB	48	52	-
Temperature Coefficient of Frequency	ppm/℃	-	-72	-

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

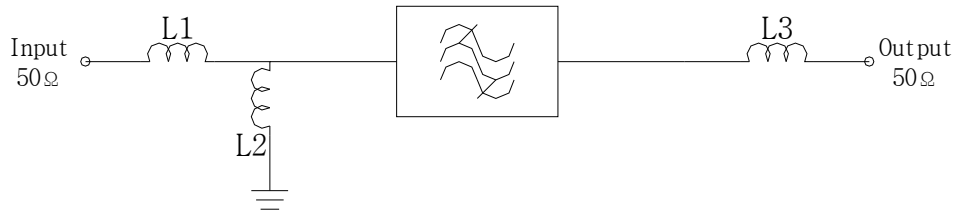
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251654B	
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4. Matching Schematic

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



$$L1 = 39\text{nH}, L2 = 150\text{nH}, L3 = 39\text{nH}$$

5. Marking Configuration

ITF¹⁾08A001²⁾

251654B³⁾

110⁴⁾-16.1⁵⁾

●⁶⁾

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center frequency

5) 1dB-Bandwidth

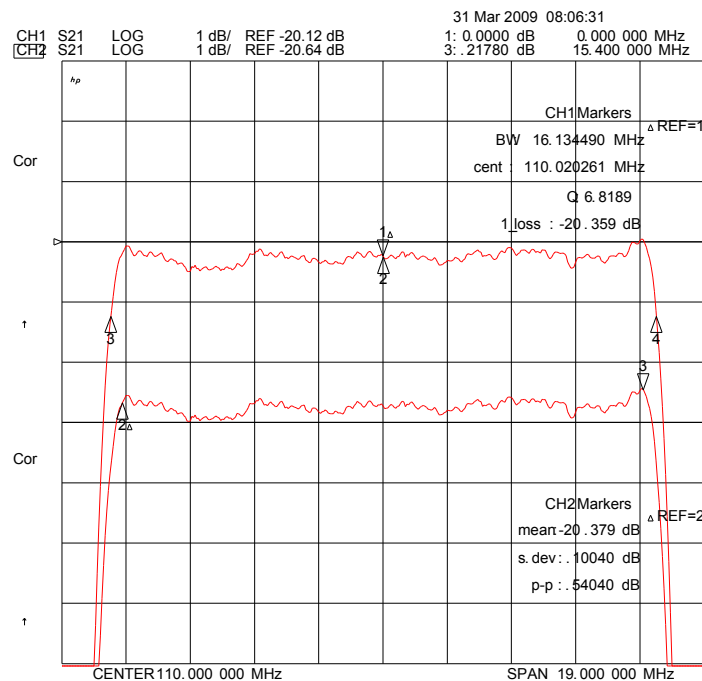
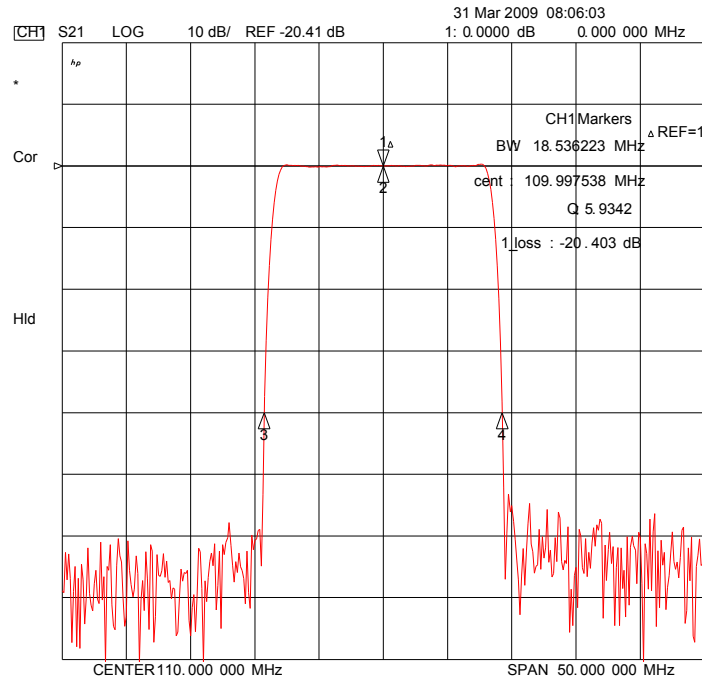
6) Pad No.1 Index

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6. Typical Performance(at +25°C)



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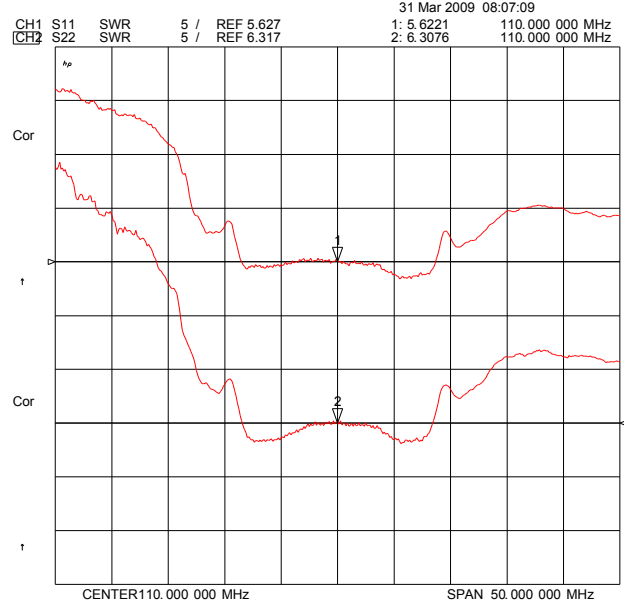
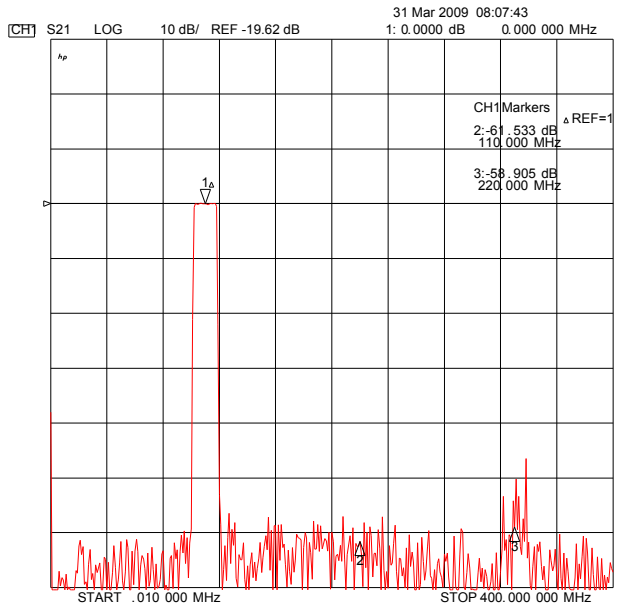
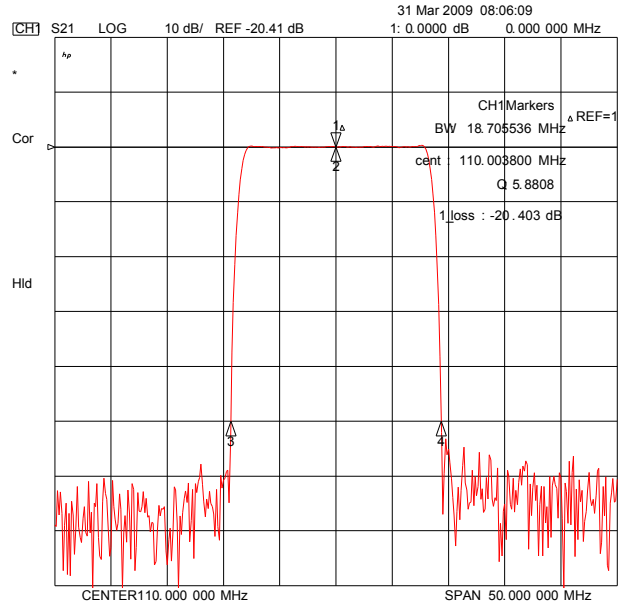
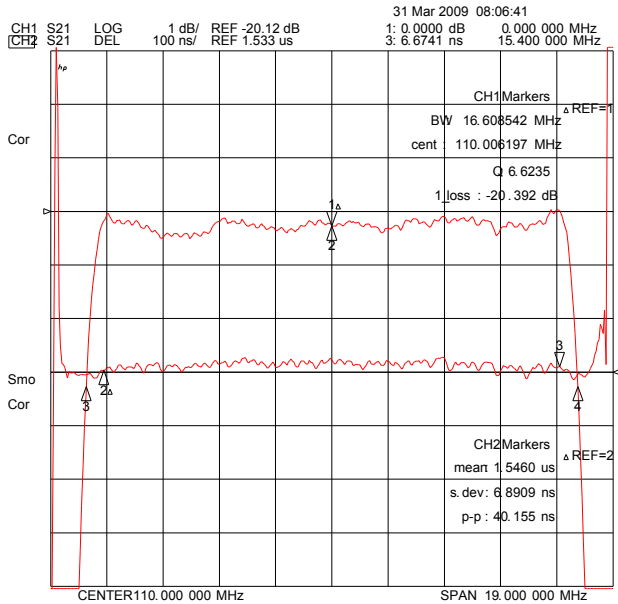
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