

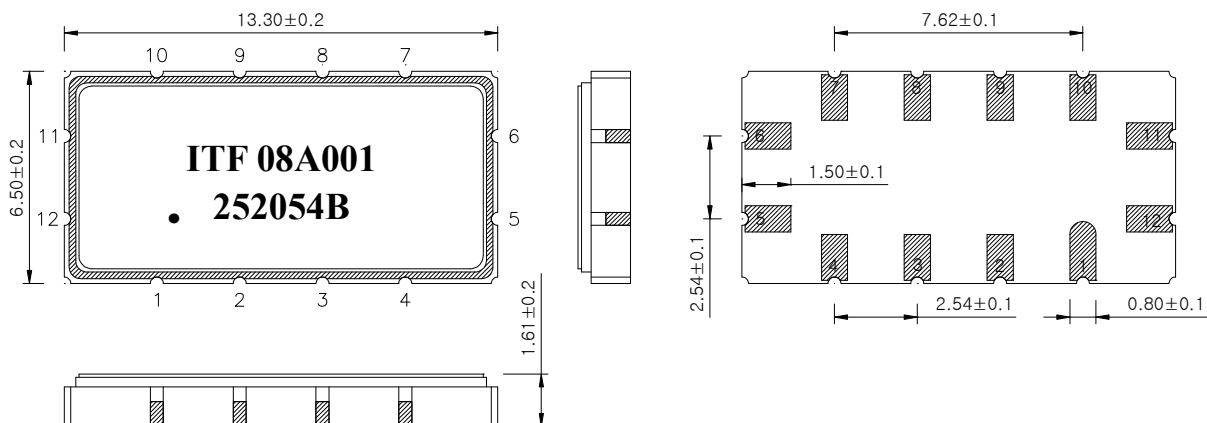
SAW Bandpass Filter 252054B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP 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.	252054B	
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3. Specifications

Fo = 120.0 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	-	120.0	-
Insertion Loss	dB	-	23.3	25.0
1dB Bandwidth	MHz	-	19.63	-
3dB Bandwidth	MHz	19.9	20.05	-
40dB Bandwidth	MHz	-	21.83	22.0
Amplitude Ripple (Fo +/- 9.5 MHz)	dB	-	0.53	1.0
Group Delay Variation (Fo +/- 9.5 MHz)	nsec	-	40	80
Absolute Delay	usec	-	1.57	-
Ultimate Rejection	dB	45	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

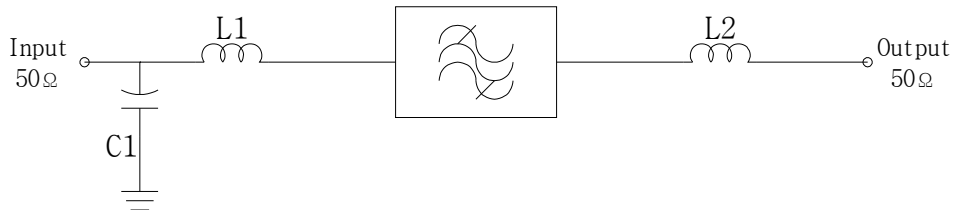
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	252054B	
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4. Matching Schematic

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



$$L1 = 56\text{nH}, L2 = 56\text{nH}$$

$$C1 = 36\text{ pF}$$

5. Marking Configuration

ITF¹⁾ 08A001²⁾

252054B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

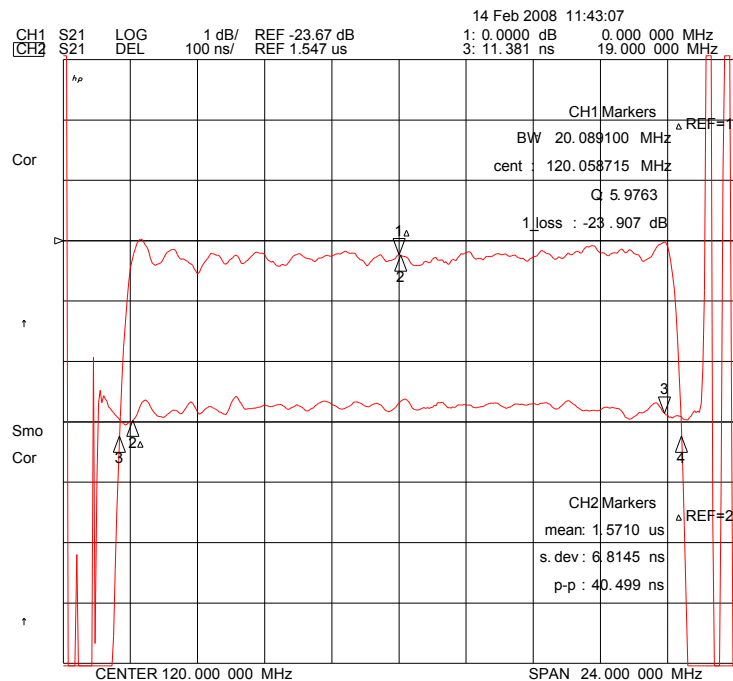
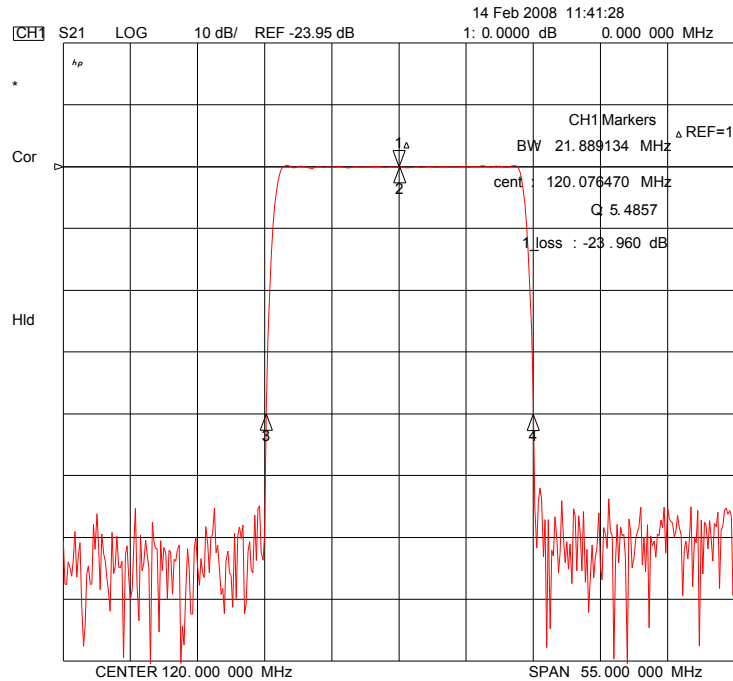
4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



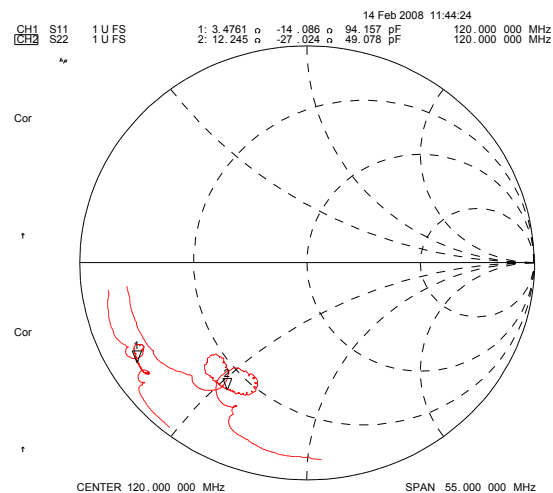
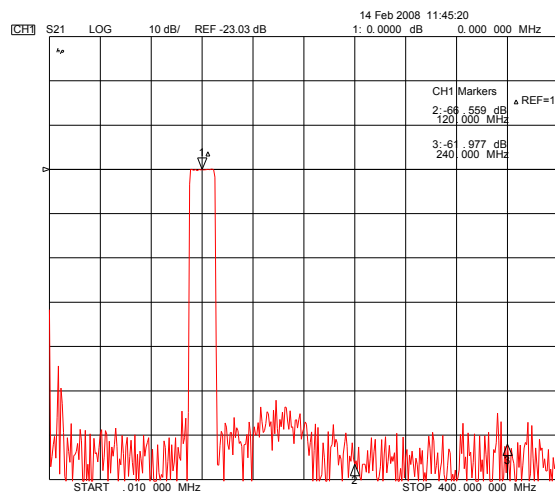
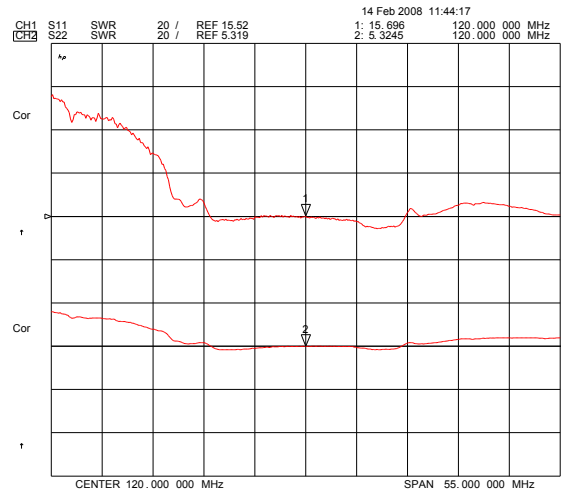
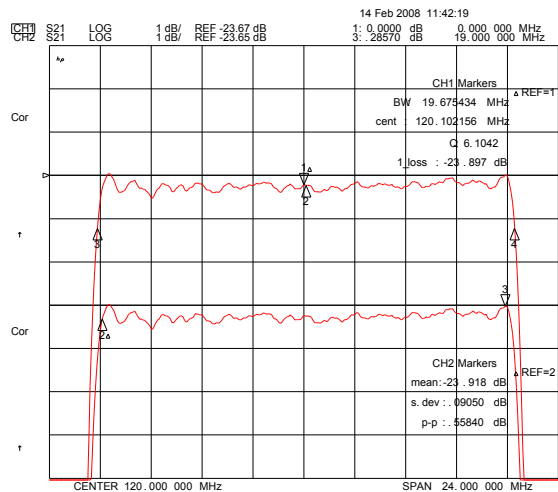
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