

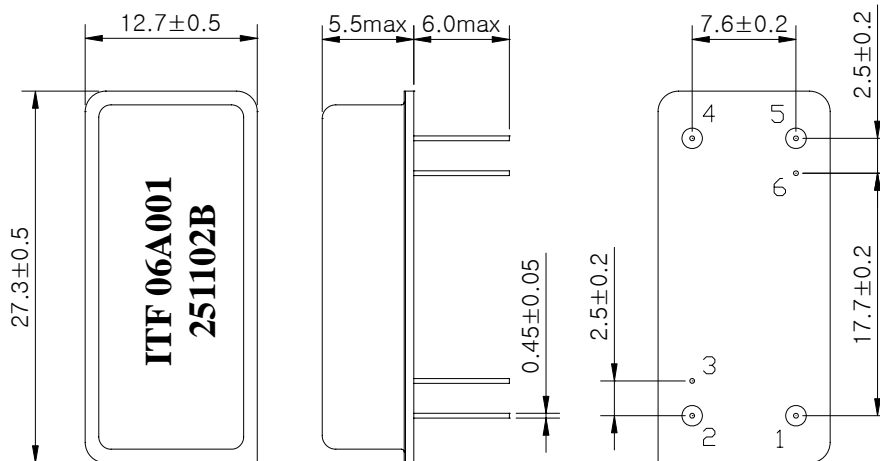
# SAW Bandpass Filter 251102B



## 1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -30°C ~ 80°C
- Electrostatics Sensitive Device (ESD)

## 2. Package Dimension



### Package : D2712

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

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251102B	
		Rev. Date	2006-09-12	
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## 3. Specifications

Fo = 140.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	140	-
Insertion Loss	dB	-	24	26
1dB Bandwidth	MHz	-	10.73	-
3dB Bandwidth	MHz	10.8	11	-
40dB Bandwidth	MHz	-	12	12.5
Amplitude Ripple (Fo +/- 5.0 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 5.0 MHz)	nsec	-	55	100
Absolute Delay	usec	-	4.18	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-18	-

### 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

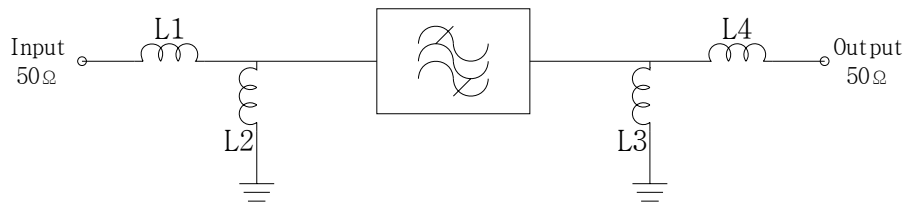
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## 4. Matching Schematic

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



L1 = 12nH, L2 = 27nH,

L3 = 18nH, L4 = 6.8nH

## 5. Marking Configuration


ITF<sup>1)</sup>06A001<sup>2)</sup>

251102B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

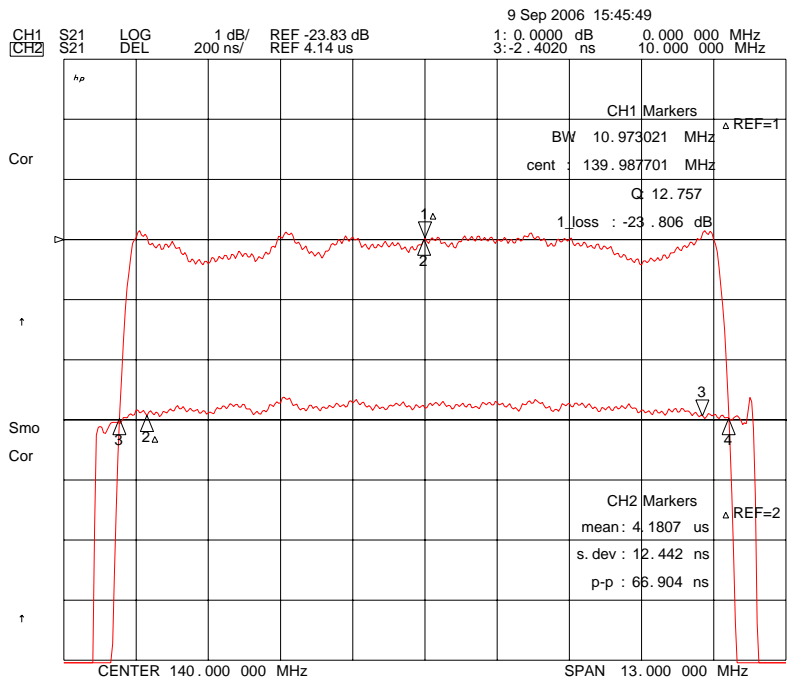
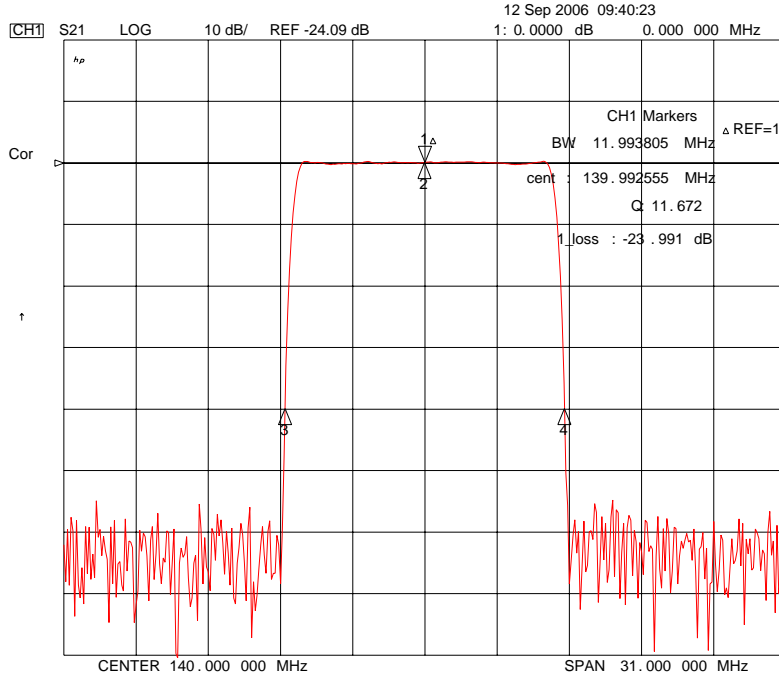
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## 6. Typical Performance ( at +25°C )



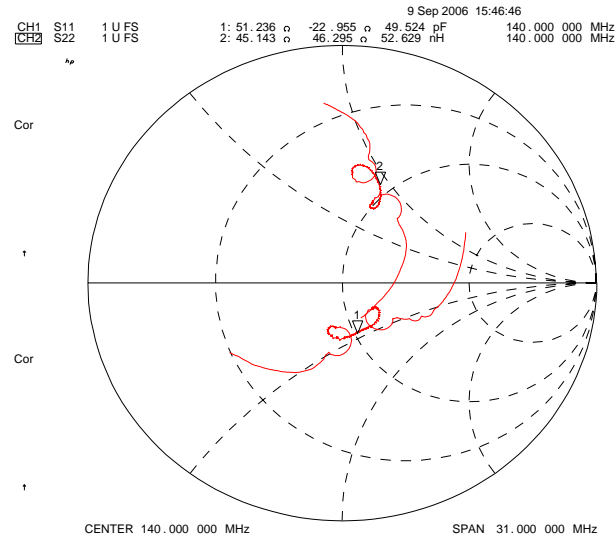
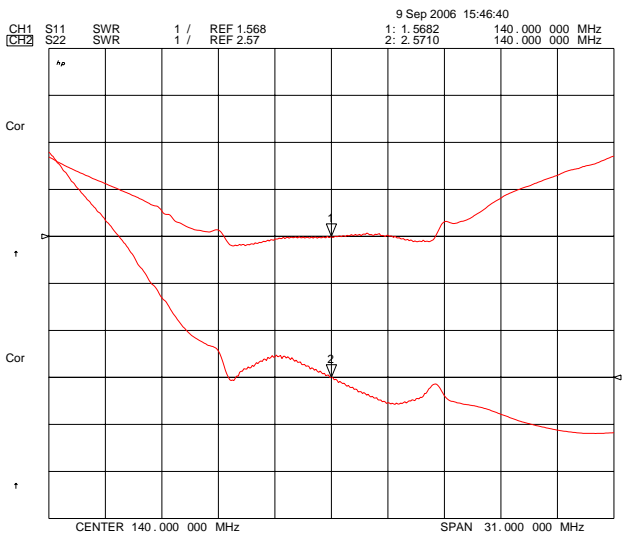
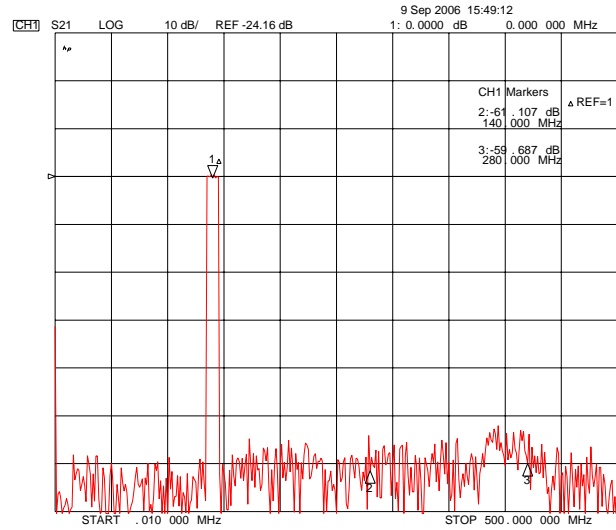
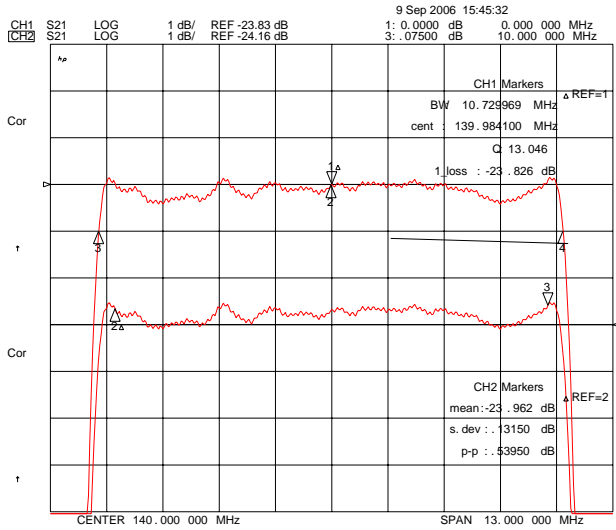
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