

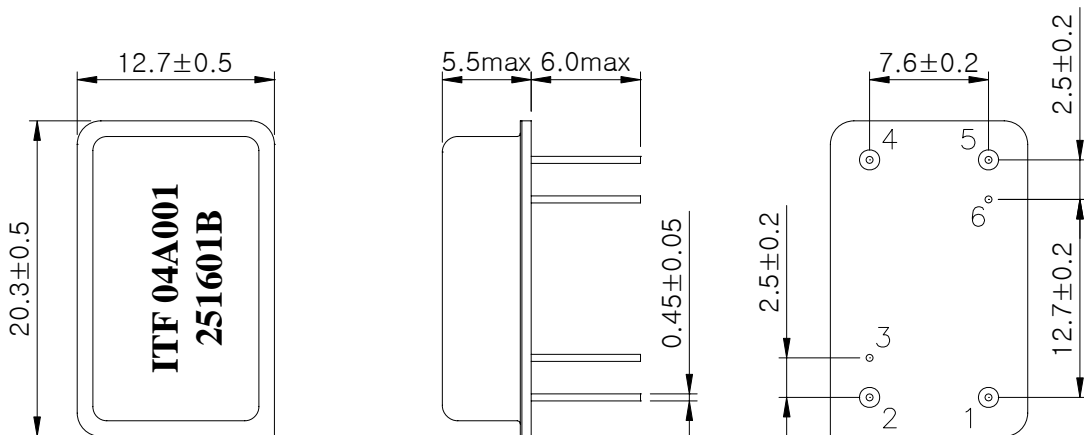
# SAW Bandpass Filter 251601B



## 1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -40°C ~ 85°C
- Electrostatics Sensitive Device (ESD)


## 2. Package Dimension



### Package : D2012

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.	251601B	
		Rev. Date	2004-03-22	
		Rev.	NM3032-CS03	1/5

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## 3. Specifications

F<sub>o</sub> = 133.65 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : 20°C ~ 50°C		Minimum	Typical	Maximum
Center Frequency	MHz	133.5	133.65	133.8
Insertion Loss	dB	-	22.5	25.0
Amplitude Ripple (126.0 ~ 141.0 MHz)	dB	-	0.7	1.5
Group Delay Variation (126.0 ~ 141.0 MHz)	nsec	-	50	150
Absolute Delay	usec	-	1.99	-
Out of Band Rejection				
at 0.01 ~ 124.5 MHz	dB	40	45	-
at 142.5 ~ 400.0 MHz	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-78	-

### 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

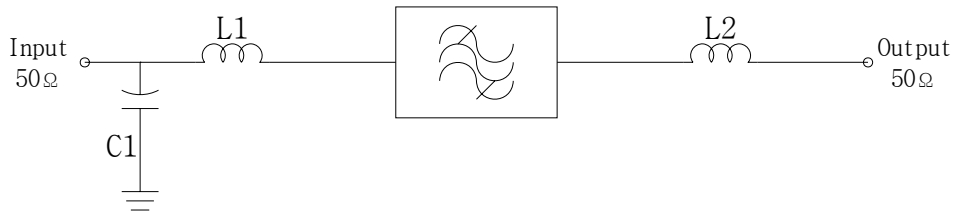
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## 4. Matching Schematic

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




L1 = 27 nH,      L2 = 27 nH  
C1 = 51pF

## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
251601B<sup>3)</sup>

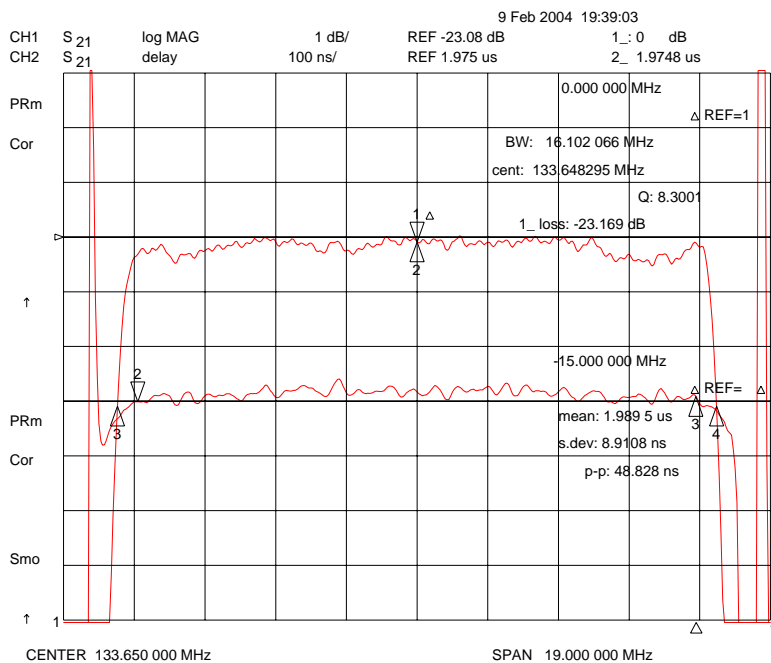
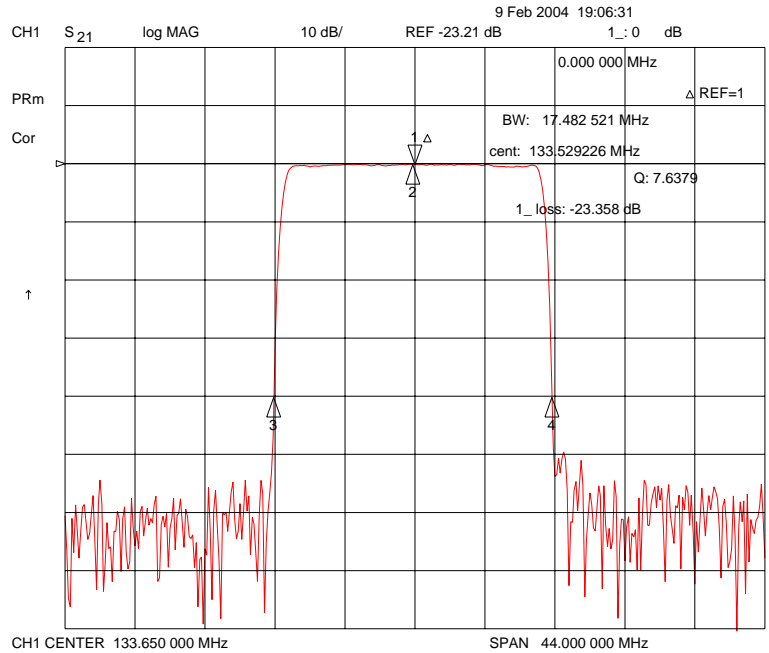
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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



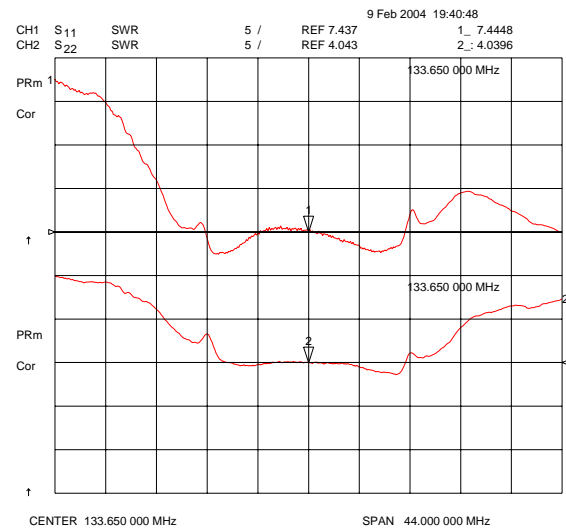
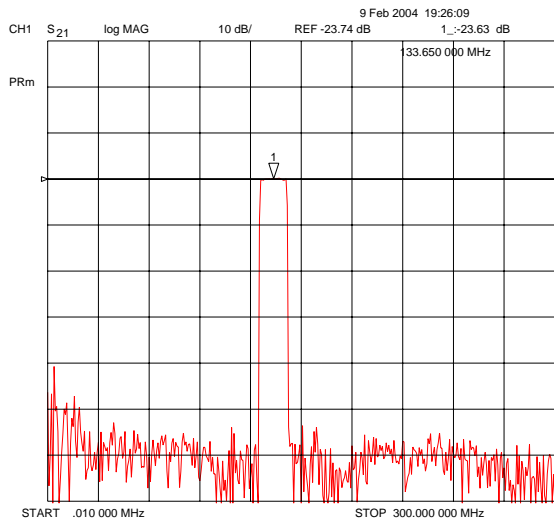
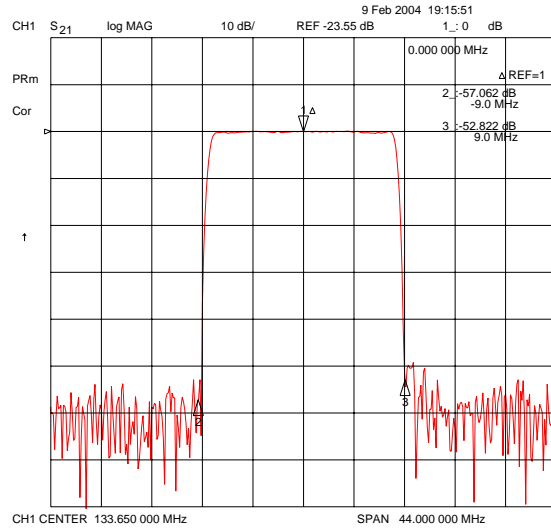
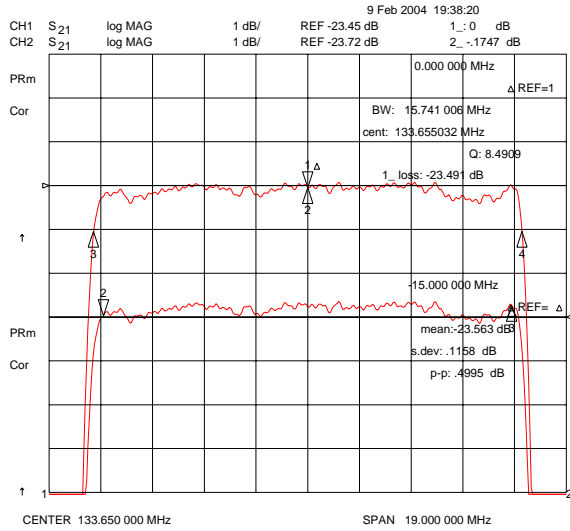
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