

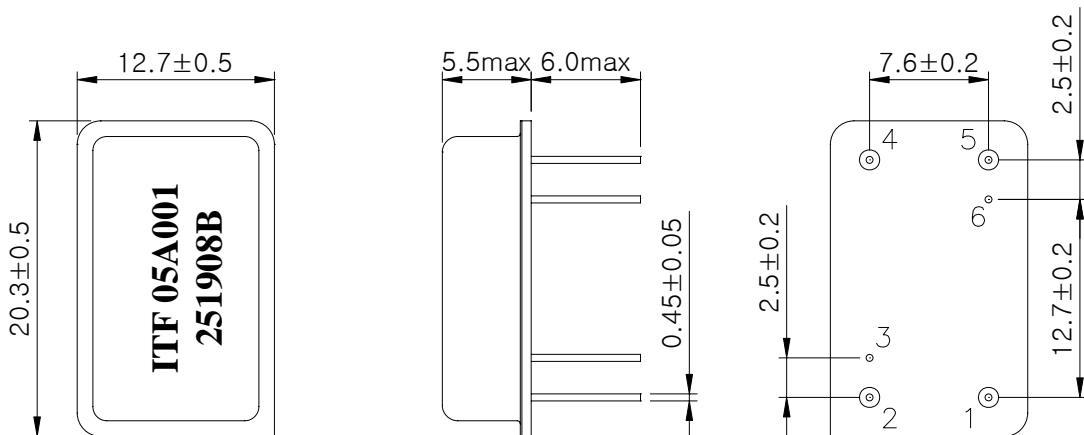
# SAW Bandpass Filter 251908B



## 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.	251908B	
		Rev. Date	2005-03-07	
		Rev.	NM5008-CS01	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

		Minimum	Typical	Maximum
Center Frequency	MHz	139.85	140.0	140.15
Insertion Loss	dB	-	27.0	28.0
1dB Bandwidth	MHz	-	19.1	-
3dB Bandwidth	MHz	19.4	19.55	-
10dB Bandwidth	MHz	-	20.2	20.3
40dB Bandwidth	MHz	-	21.1	21.3
Amplitude Ripple (Fo +/- 9.375 MHz)	dB	-	0.8	1.2
Group Delay Variation (Fo +/- 9.375 MHz)	nsec	-	30	100
Absolute Delay	usec	-	3.2	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C <sup>2</sup>	-	-23	-

### 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

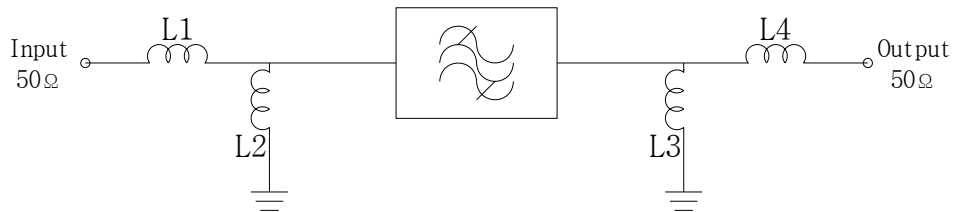
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## 4. Matching Schematic

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



L1 = 82nH, L2 = 68 nH

L3 = 68nH, L4 = 68 nH

## 5. Marking Configuration


ITF<sup>1)</sup>05A001<sup>2)</sup>

251908B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

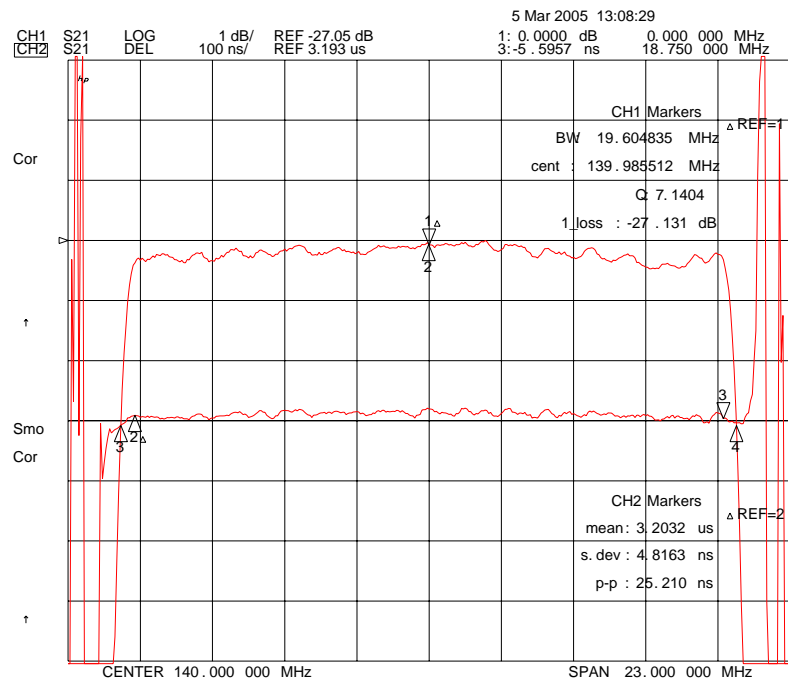
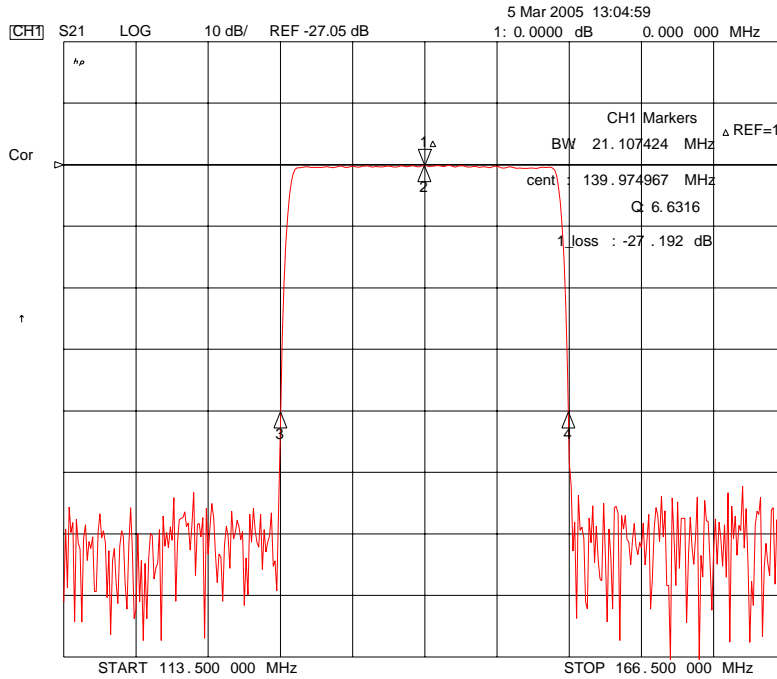
3) Part Number

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



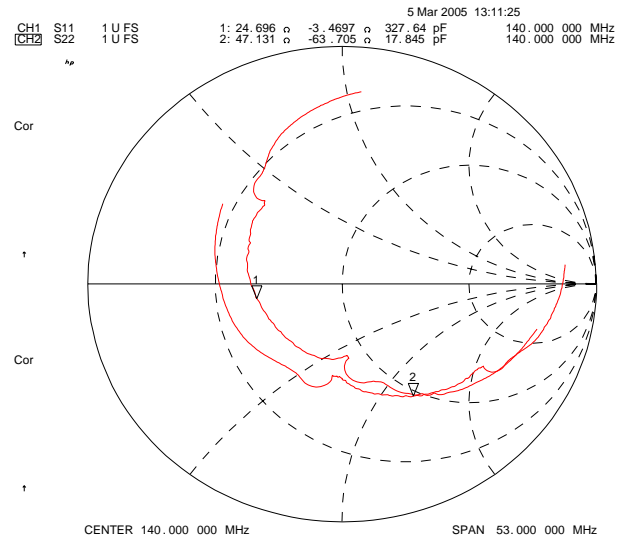
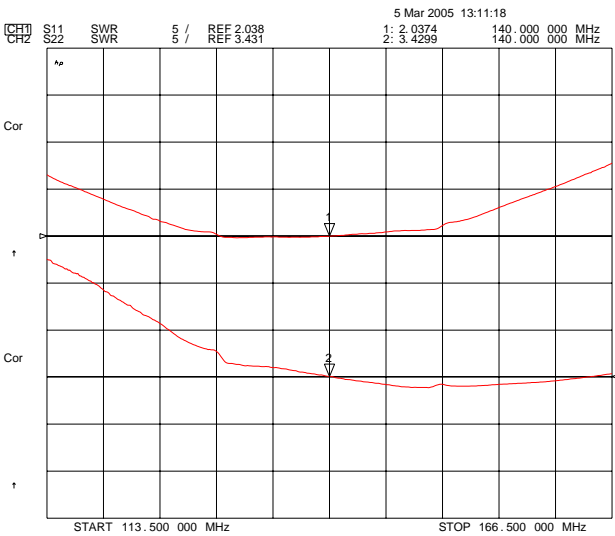
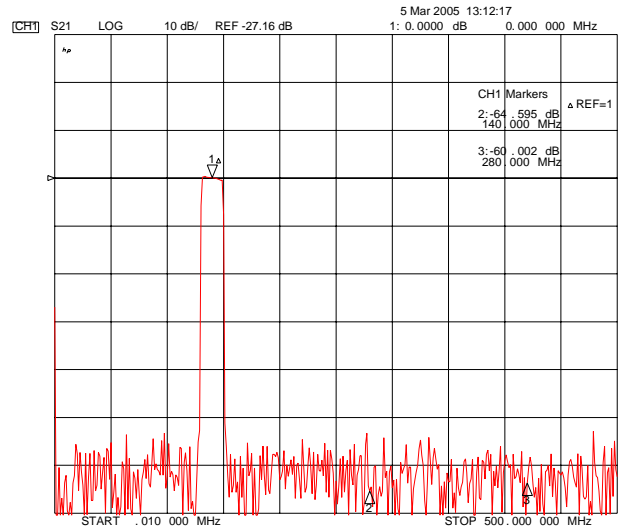
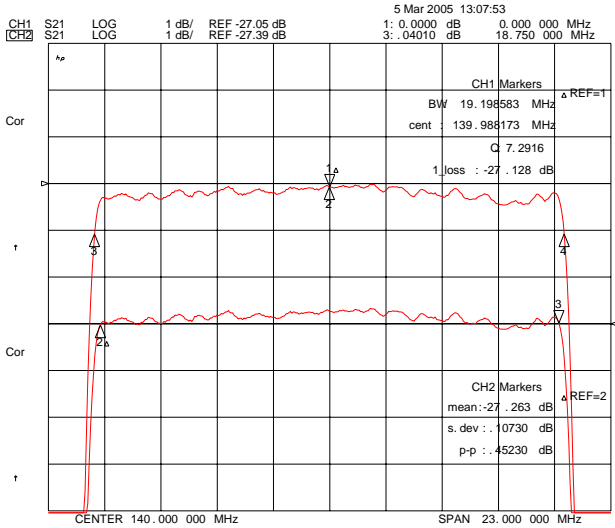
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