

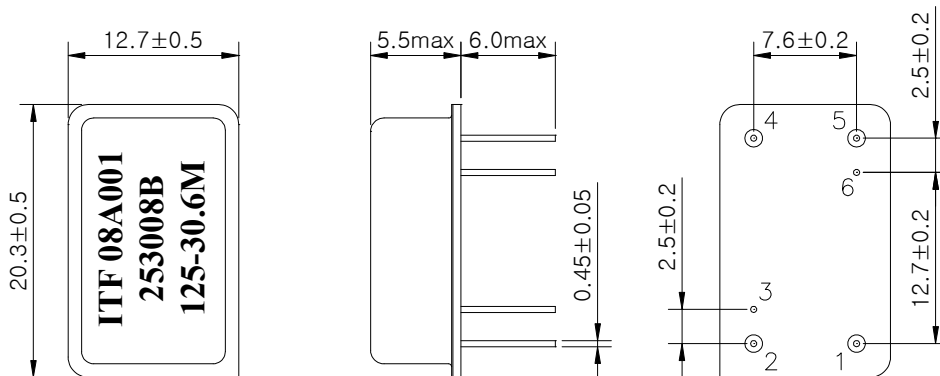
# SAW Bandpass Filter 253008B



## 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.	253008B	
		Rev. Date	2008-08-13	
		Rev.	NM8050-CS01	1/5

# SAW Bandpass Filter 253008B



## 3. Specifications

Fo = 125.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	125.0	-
Insertion Loss	dB	-	26.5	28.0
1dB Bandwidth	MHz	30.5	30.6	-
3dB Bandwidth	MHz	-	30.94	-
40dB Bandwidth	MHz	-	32.35	32.5
Amplitude Ripple (Fo +/- 15.0 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo +/- 15.0 MHz)	nsec	-	30	60
Absolute Delay	usec	-	1.88	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-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

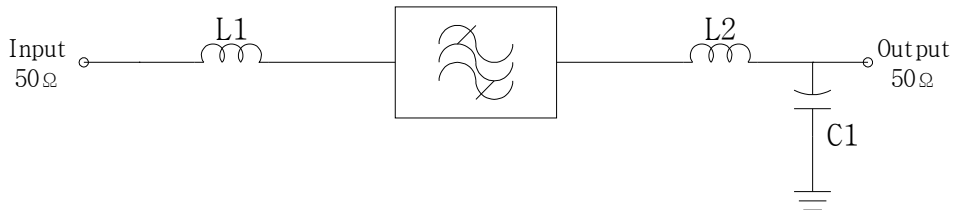
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	253008B	
		Rev. Date	2008-08-13	
		Rev.	NM8050-CS01	2/5

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## 4. Matching Schematic

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



$L1 = 47\text{nH}$ ,  $L2 = 56\text{nH}$ ,  $C1 = 27\text{pF}$

## 5. Marking Configuration

ITF<sup>1)</sup> 08A001<sup>2)</sup>

253008B<sup>3)</sup>

125<sup>4)</sup> -30.6M<sup>5)</sup>

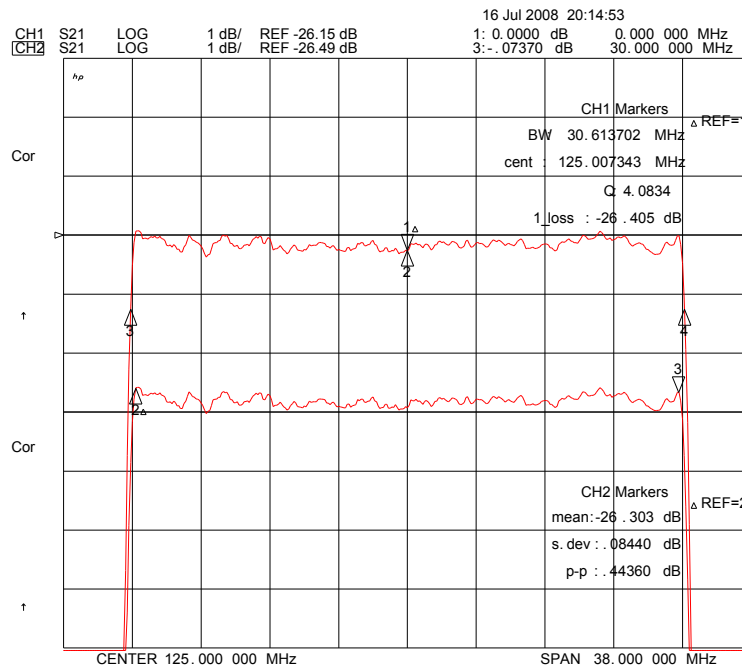
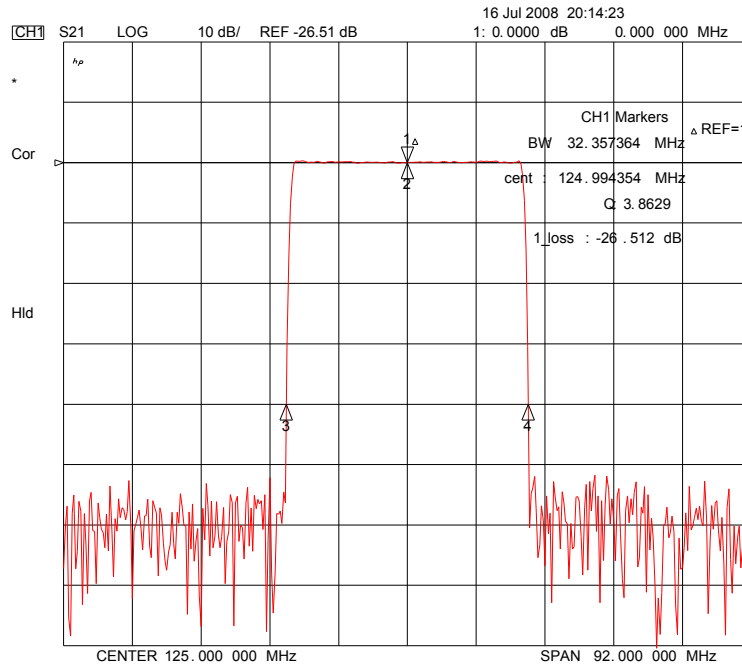
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

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		Rev.	NM8050-CS01	3/5

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



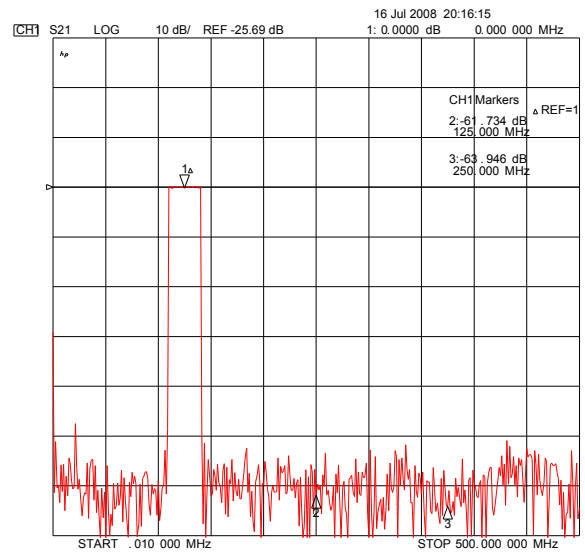
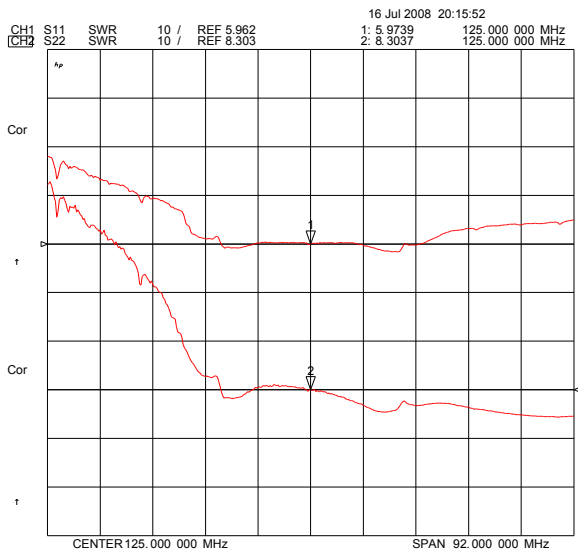
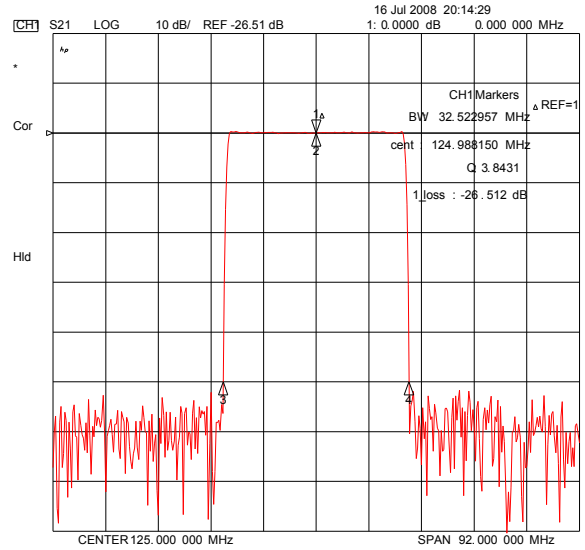
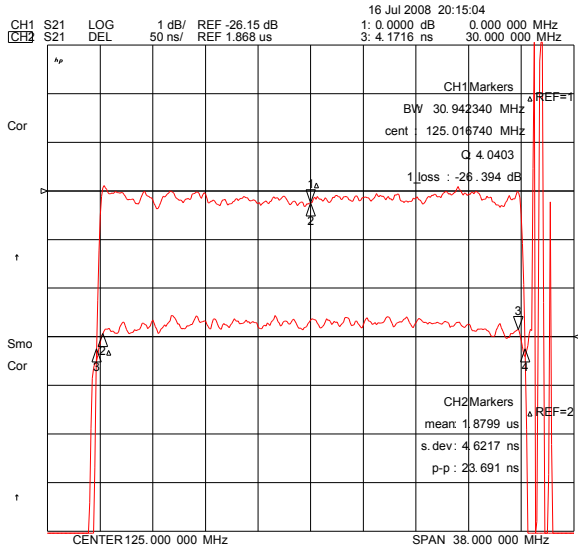
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Rev. NM8050-CS01 4/5

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Rev. Date	2008-08-13	
Rev.	NM8050-CS01	5/5