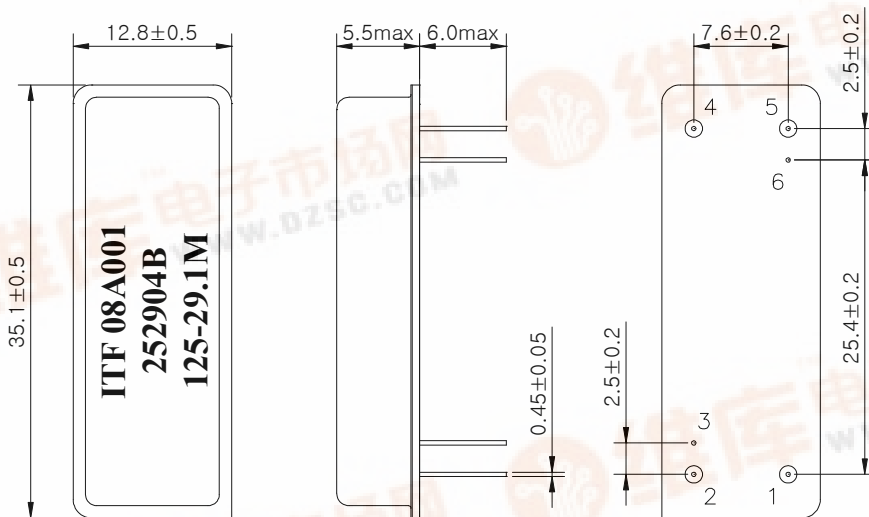


# SAW Bandpass Filter 252904B

## 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 : D3512

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

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	Rev. Date	2008-10-30	
	Rev.	NM8064-CS01	1/5

## SAW Bandpass Filter 252904B

### 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	-	28.8	30.5
1dB Bandwidth	MHz	29.05	29.12	-
3dB Bandwidth	MHz	-	29.32	-
40dB Bandwidth	MHz	-	30.17	30.3
Amplitude Ripple (fo ± 14.52 MHz)	dB	-	1.2	2.2
Group Delay Variation (fo ± 14.52 MHz)	nsec	-	40	80
Absolute Delay	usec	-	2.95	-
Ultimate Rejection	dB	48	52	-
Relative Attenuation				
Fo ± 15.1MHz	dB	26	42	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

#### Notes :

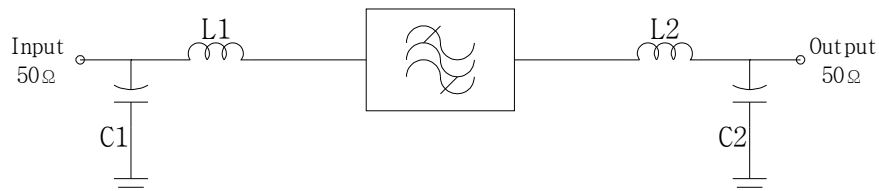
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

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### 4. Matching Schematic

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



$$L1 = L2 = 47\text{nH}$$
$$C1 = 20\text{pF}, C2 = 15\text{pF}$$


### 5. Marking Configuration

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

252904B<sup>3)</sup>

125<sup>4)</sup>-29.1M<sup>5)</sup>

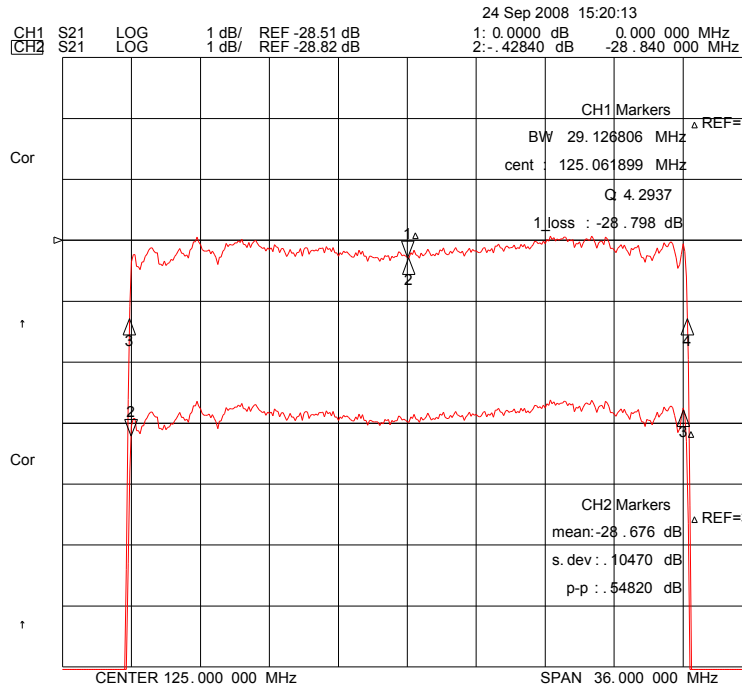
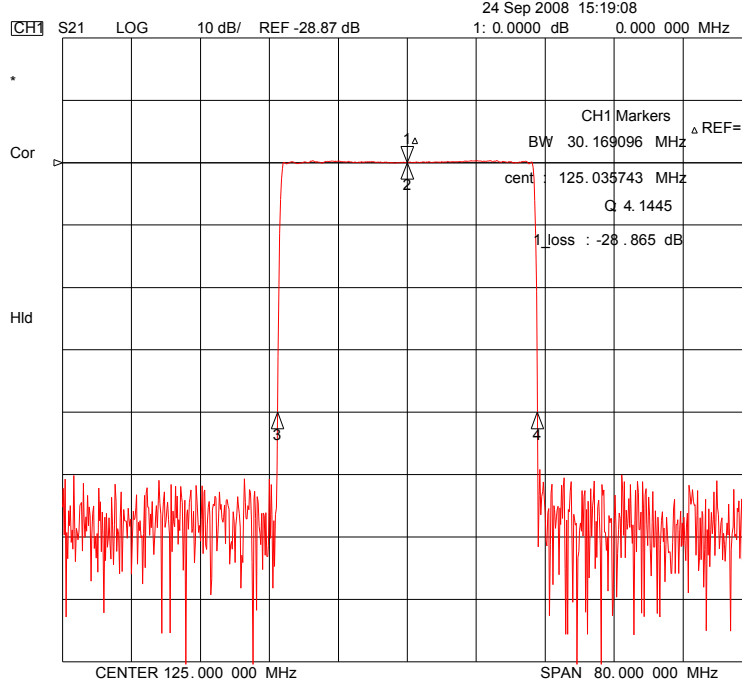
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center frequency
- 5) 1dB-Bandwidth

 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.	252904B	
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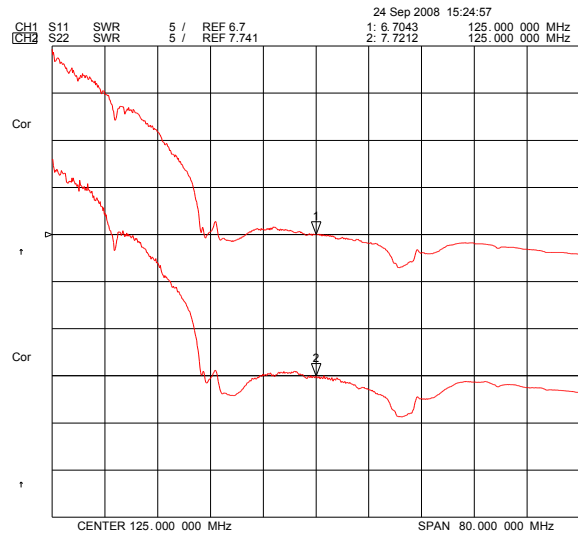
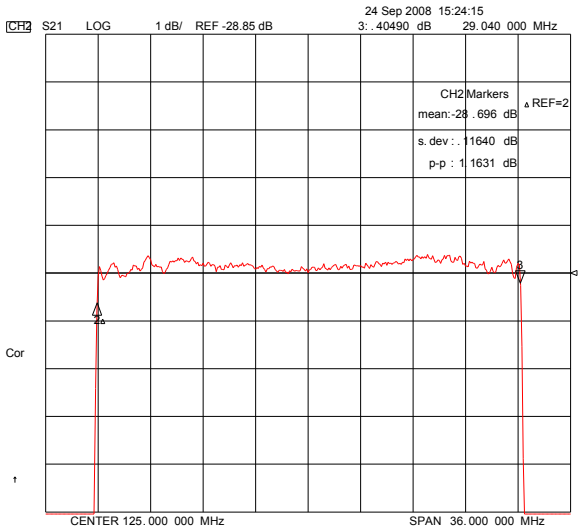
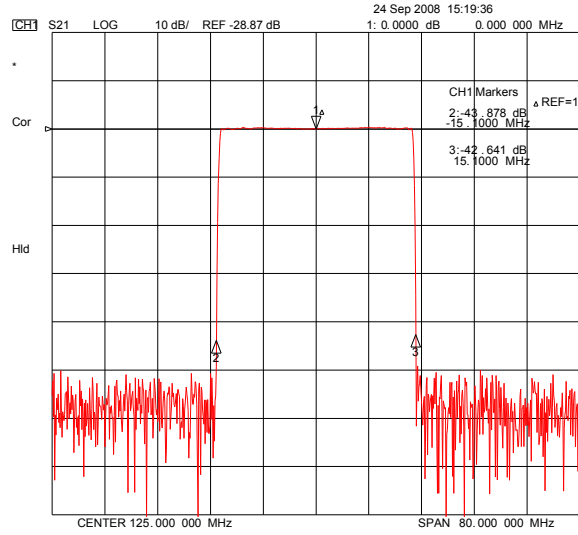
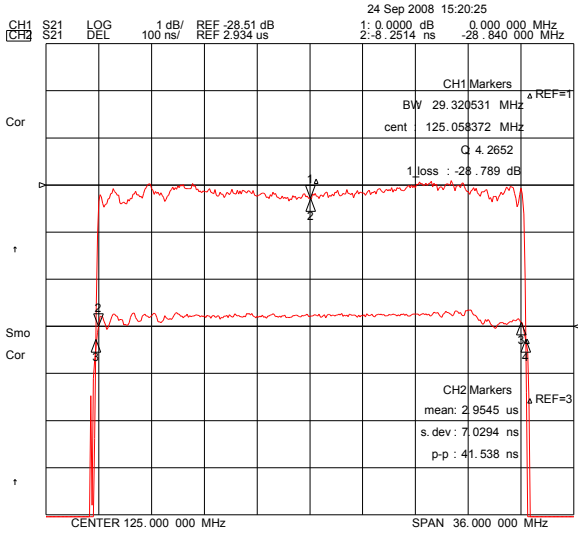


## 6. Typical Performance ( at +25°C )



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