

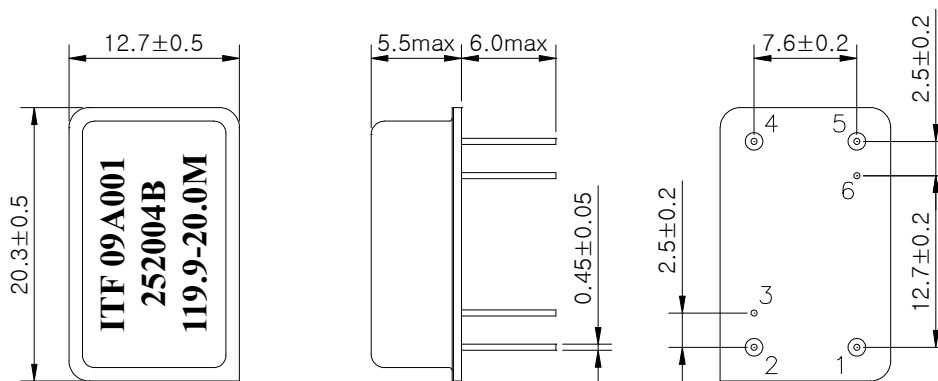
# SAW Bandpass Filter 252004B



## 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

 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.	252004B	
		Rev. Date	2009-04-13	
		Rev.	NM9024-CS01	1/5

# SAW Bandpass Filter 252004B



## 3. Specifications

Fo = 119.9 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	119.9	-
Insertion Loss	dB	-	28.0	29.5
1dB Bandwidth	MHz	-	20.05	-
3dB Bandwidth	MHz	20.3	20.42	-
40dB Bandwidth	MHz	-	21.92	22.0
Amplitude Ripple (fo ± 9.8 MHz)	dB	-	0.4	1.0
Group Delay Variation (fo ± 9.8 MHz)	nsec	-	25	50
Absolute Delay	usec	-	2.83	-
Ultimate Rejection	dB	50	52	-
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

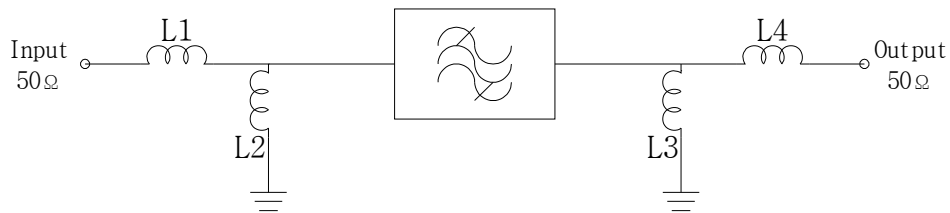
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	252004B	
		Rev. Date	2009-04-13	
		Rev.	NM9024-CS01	2/5

# SAW Bandpass Filter 252004B



## 4. Matching Schematic

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



**L1 = 82nH, L2 = 120nH**

**L3 = 120nH, L4 = 82nH**


## 5. Marking Configuration

ITF<sup>1)</sup>09A001<sup>2)</sup>

252004B<sup>3)</sup>

119.9<sup>4)</sup>-20.0M<sup>5)</sup>

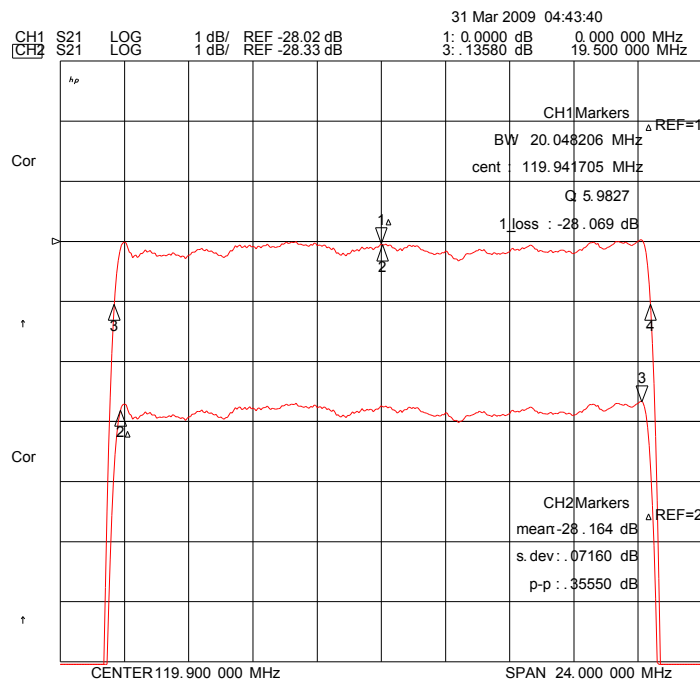
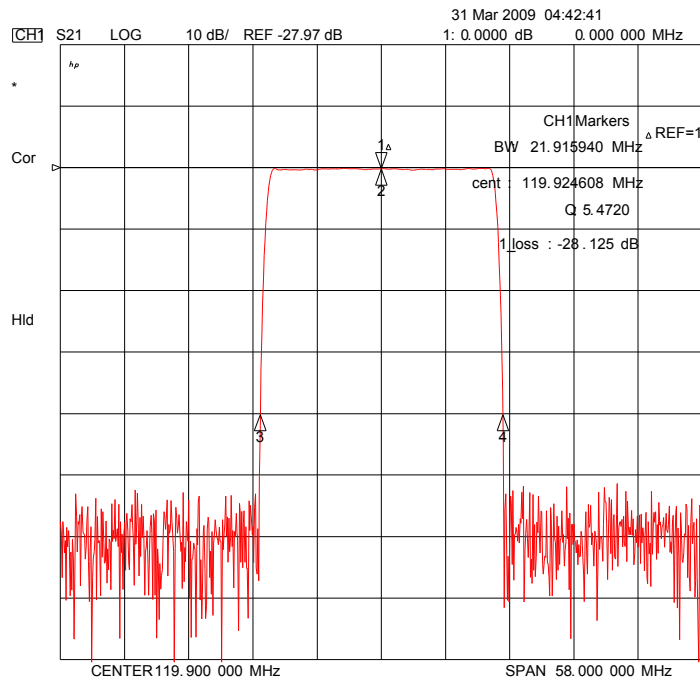
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center frequency
- 5) 1dB-Bandwidth


 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.	252004B	
		Rev. Date	2009-04-13	
		Rev.	NM9024-CS01	3/5

# SAW Bandpass Filter 252004B

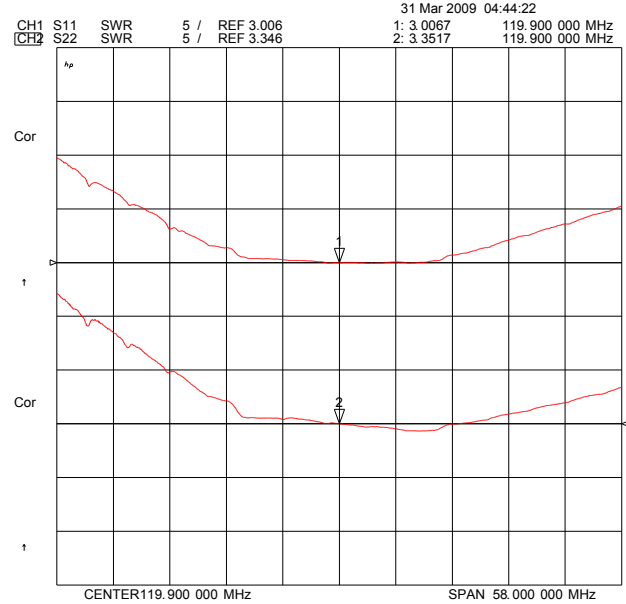
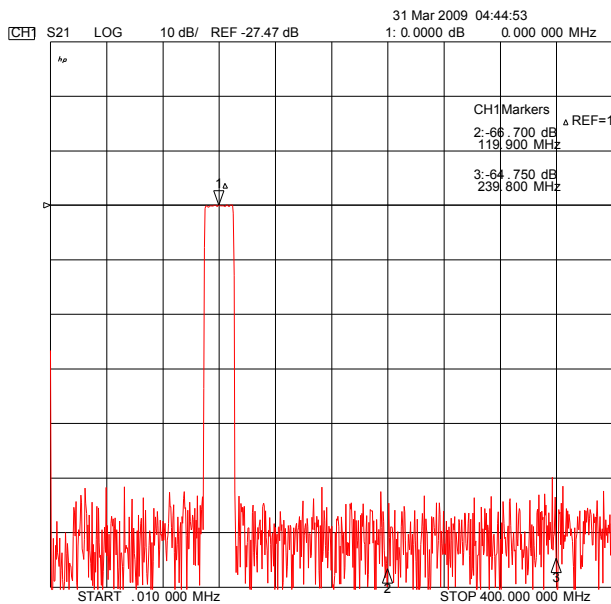
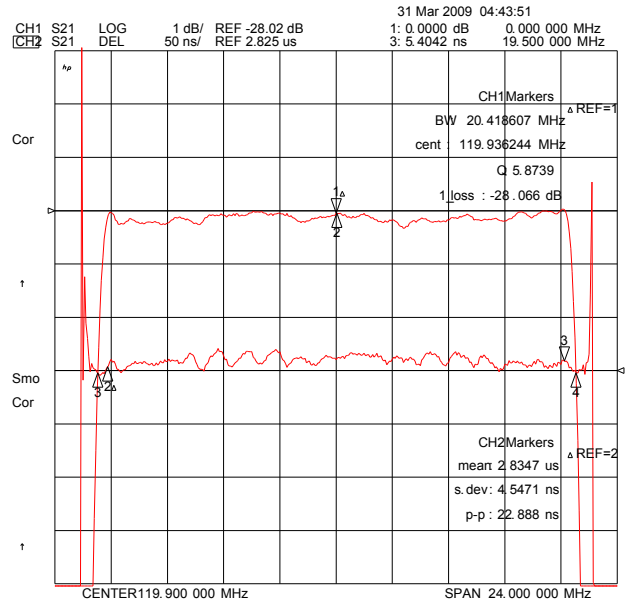
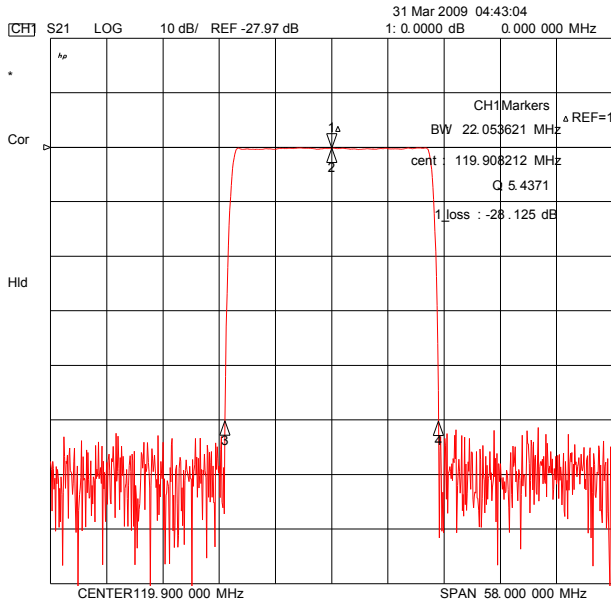


## 6. Typical Performance ( at +25°C )



 <p>ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809</p>	Part No.	252004B	
	Rev. Date	2009-04-13	
	Rev.	NM9024-CS01	4/5

# SAW Bandpass Filter 252004B



**ITF Co., Ltd.**  
 102-901, Bucheon Technopark 364,  
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
 Gyeonggi-Do, Korea 421-809

Part No.	252004B	
Rev. Date	2009-04-13	
Rev.	NM9024-CS01	5/5