

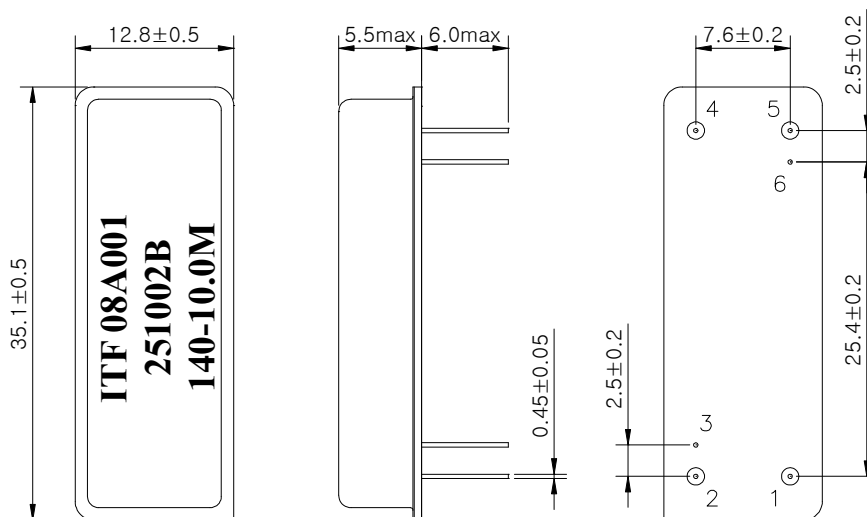
SAW Bandpass Filter 251002B



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

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251002B	
		Rev. Date	2008-11-07	
		Rev.	NM8045-CS01	1/5

SAW Bandpass Filter 251002B



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	-	140.0	-
Insertion Loss	dB	-	26.0	28.0
2dB Bandwidth	MHz	9.9	10.0	-
25dB Bandwidth	MHz	-	10.73	10.8
40dB Bandwidth	MHz	-	10.92	-
Amplitude Ripple (fo ± 4.75 MHz)	dB	-	0.65	1.0
Group Delay Variation (fo ± 4.75 MHz)	nsec	-	60	120
Absolute Delay	usec	-	3.9	-
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

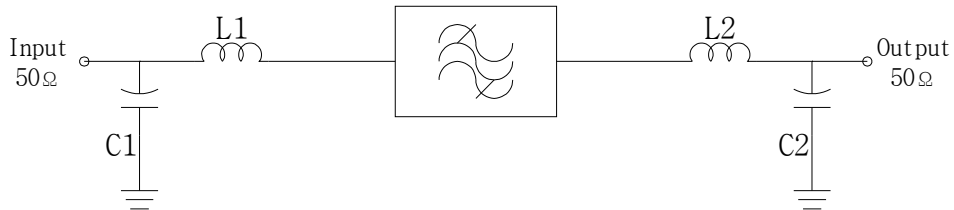
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251002B	
		Rev. Date	2008-11-07	
		Rev.	NM8045-CS01	2/5

SAW Bandpass Filter 251002B



4. Matching Schematic

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



L1 = 33nH, L2 = 27nH

C1 = C2 = 62pF


5. Marking Configuration

ITF¹⁾ 08A001²⁾

251002B³⁾

140⁴⁾ -10.0M⁵⁾

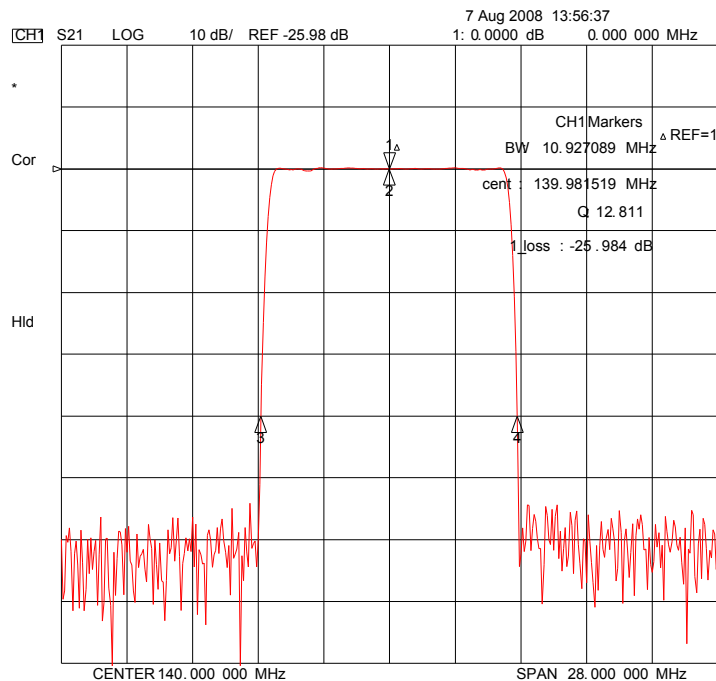
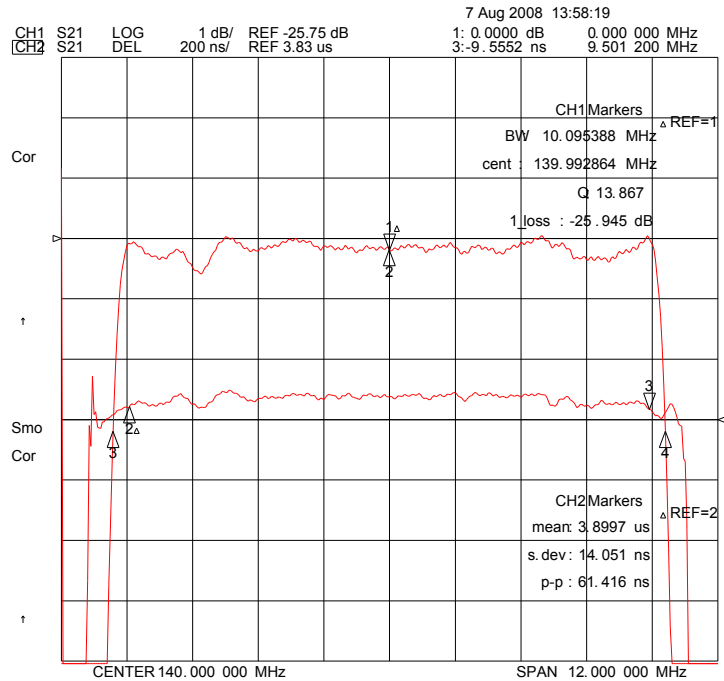
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 2dB-Bandwidth

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251002B	
		Rev. Date	2008-11-07	
		Rev.	NM8045-CS01	3/5

SAW Bandpass Filter 251002B

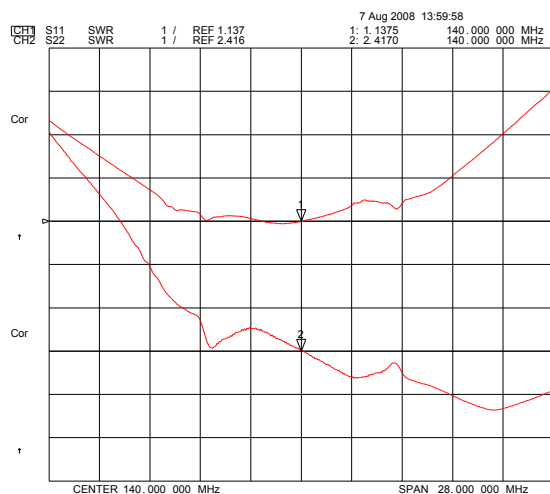
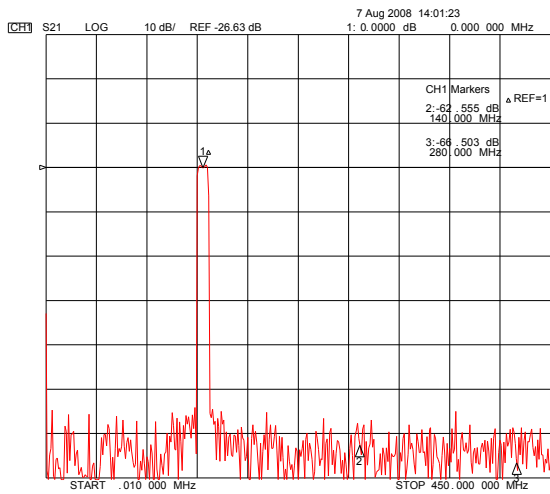
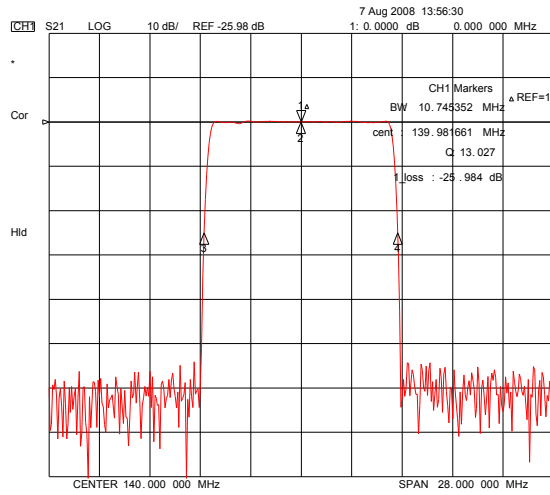
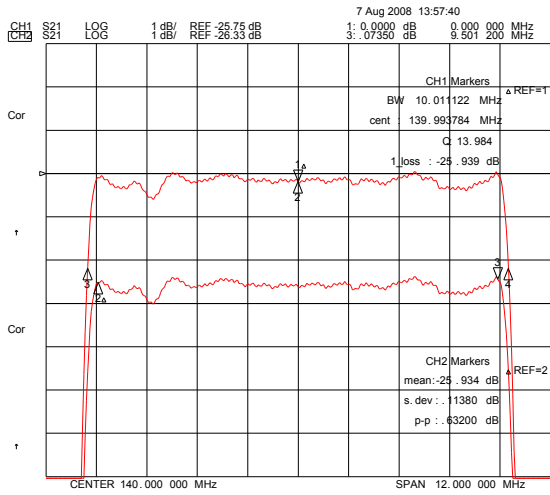



6. Typical Performance (at +25°C)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251002B	
		Rev. Date	2008-11-07	
		Rev.	NM8045-CS01	4/5

SAW Bandpass Filter 251002B



 <p>ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809</p>	Part No.	251002B	
	Rev. Date	2008-11-07	
	Rev.	NM8045-CS01	5/5