

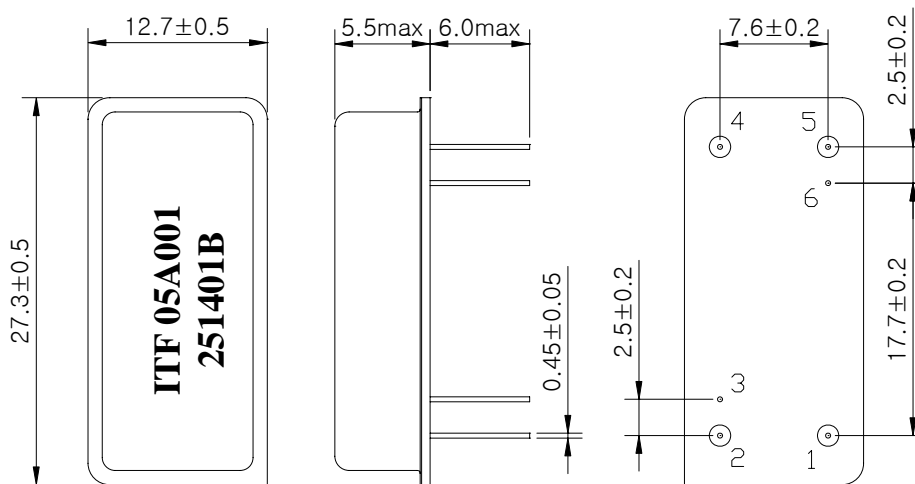
SAW Bandpass Filter 251401B



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 : D2712

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.	251401B	
		Rev. Date	2005-03-14	
		Rev.	NM5007-CS01	1/5

SAW Bandpass Filter 251401B



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	139.9	140.0	140.1
Insertion Loss	dB	-	25.0	26.0
1dB Bandwidth	MHz	-	14.2	-
3dB Bandwidth	MHz	14.3	14.5	-
10dB Bandwidth	MHz	-	15.08	15.12
40dB Bandwidth	MHz	-	16.0	16.2
Amplitude Ripple (Fo +/- 6.875 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 6.875 MHz)	nsec	-	50	100
Absolute Delay	usec	-	3.21	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-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

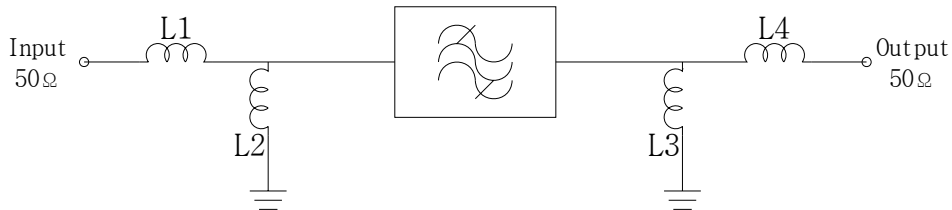
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		Rev. Date	2005-03-14	
		Rev.	NM5007-CS01	2/5

SAW Bandpass Filter 251401B



4. Matching Schematic

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



L1 = 47 nH, L2 = 47 nH

L3 = 56 nH, L4 = 47 nH

5. Marking Configuration

ITF¹⁾05A001²⁾

251401B³⁾

1) Manufacturer name

2) Lot Number

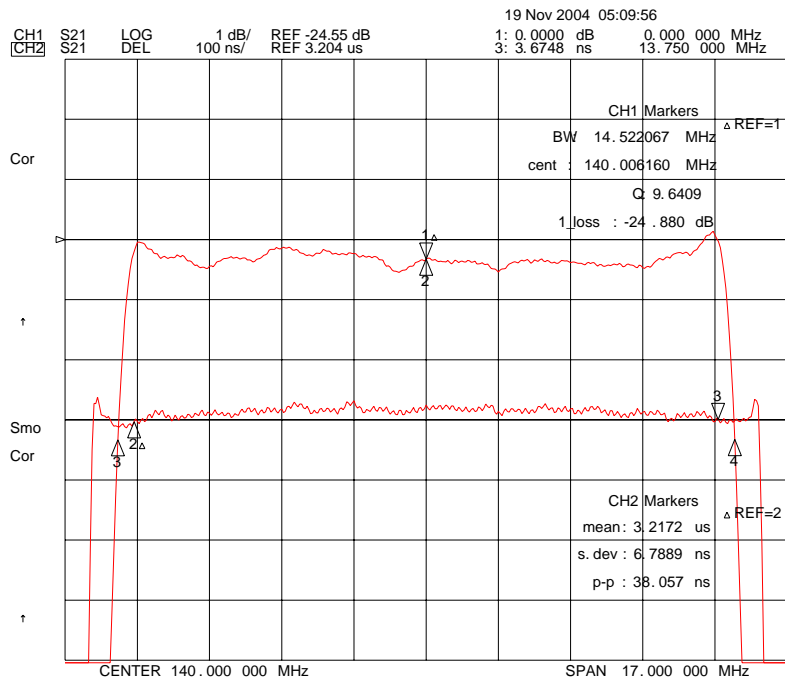
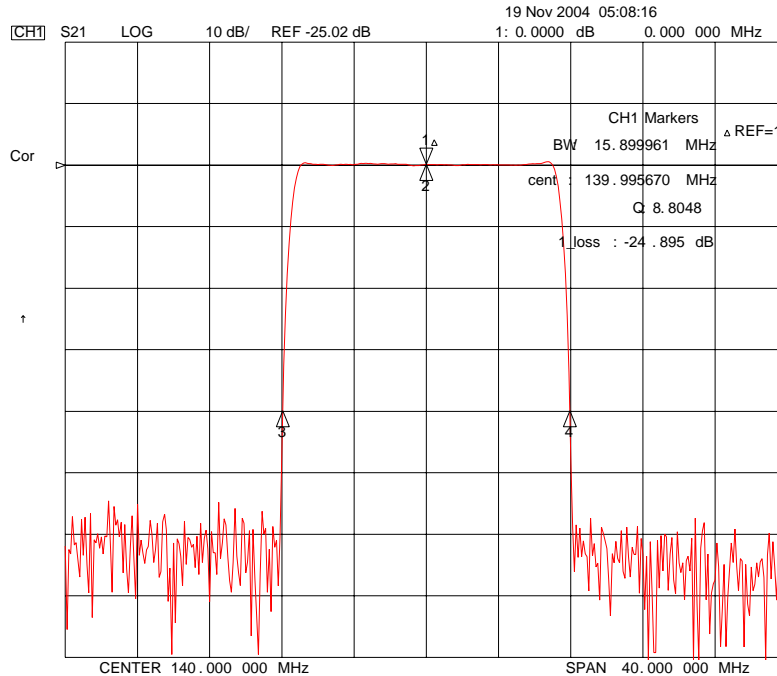
3) Part Number

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		Rev.	NM5007-CS01	3/5

SAW Bandpass Filter 251401B



6. Typical Performance (at +25°C)



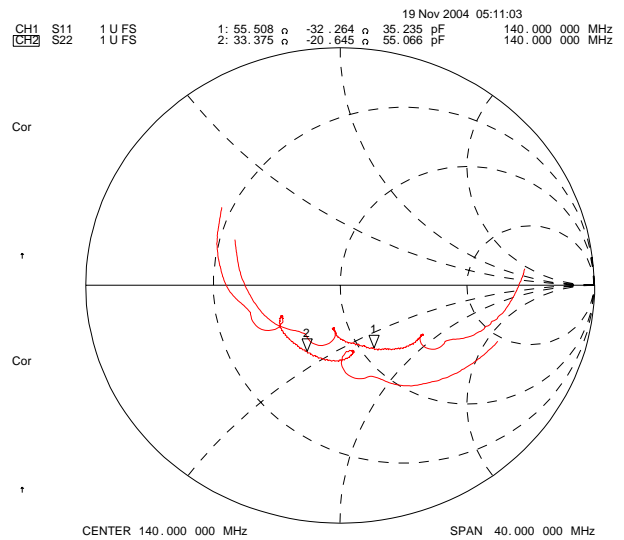
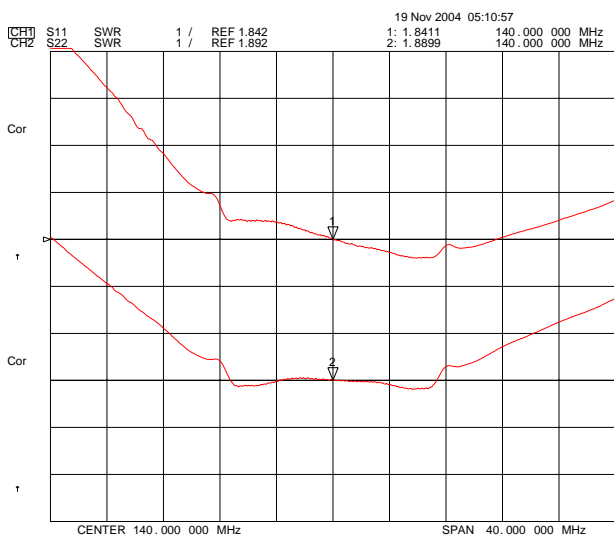
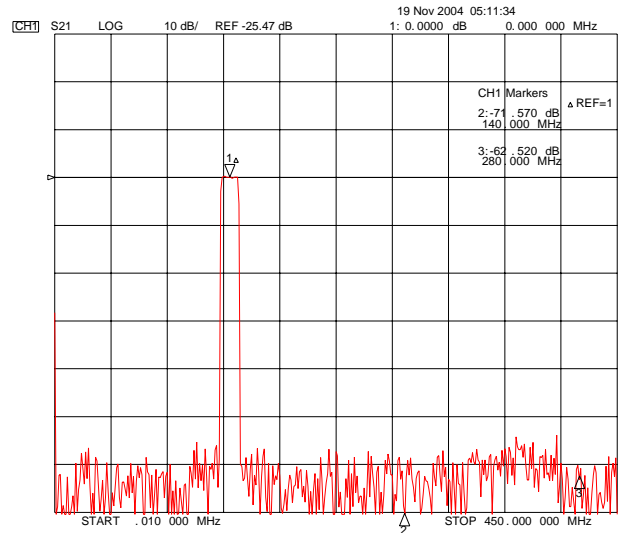
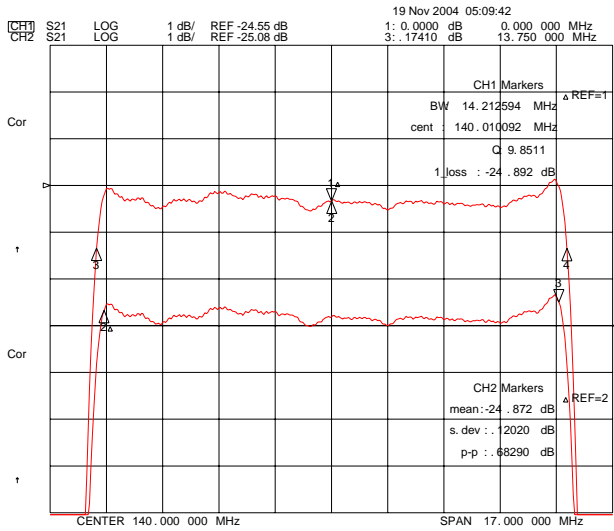
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Rev. NM5007-CS01 4/5

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Rev.	NM5007-CS01	5/5