

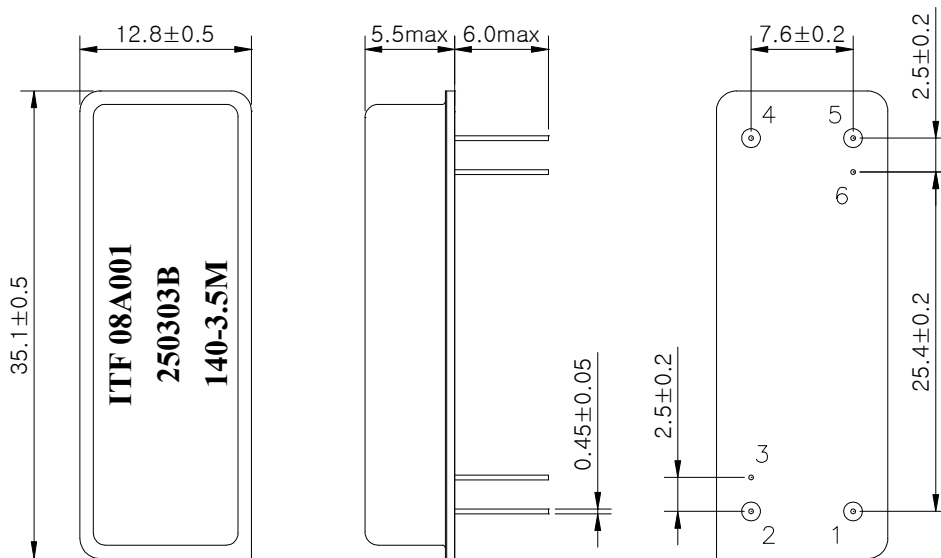
SAW Bandpass Filter 250303B



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.	250303B	
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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	-	22.0	24.0
2dB Bandwidth	MHz	-	3.52	3.6
3dB Bandwidth	MHz	-	3.62	-
25dB Bandwidth	MHz	-	4.28	4.4
40dB Bandwidth	MHz	-	4.48	-
Amplitude Ripple (Fo +/- 1.55 MHz)	dB	-	0.4	1.0
Group Delay Variation (Fo +/- 1.55 MHz)	nsec	-	140	270
Absolute Delay	usec	-	3.18	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

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

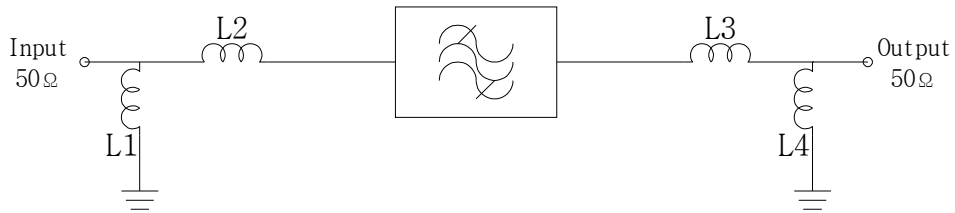
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4. Matching Schematic

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



$$L1 = L4 = 33 \text{ nH}$$

$$L2 = L3 = 47 \text{ nH}$$


5. Marking Configuration

ITF¹⁾08A001²⁾

250303B³⁾

140⁴⁾-3.5M⁵⁾

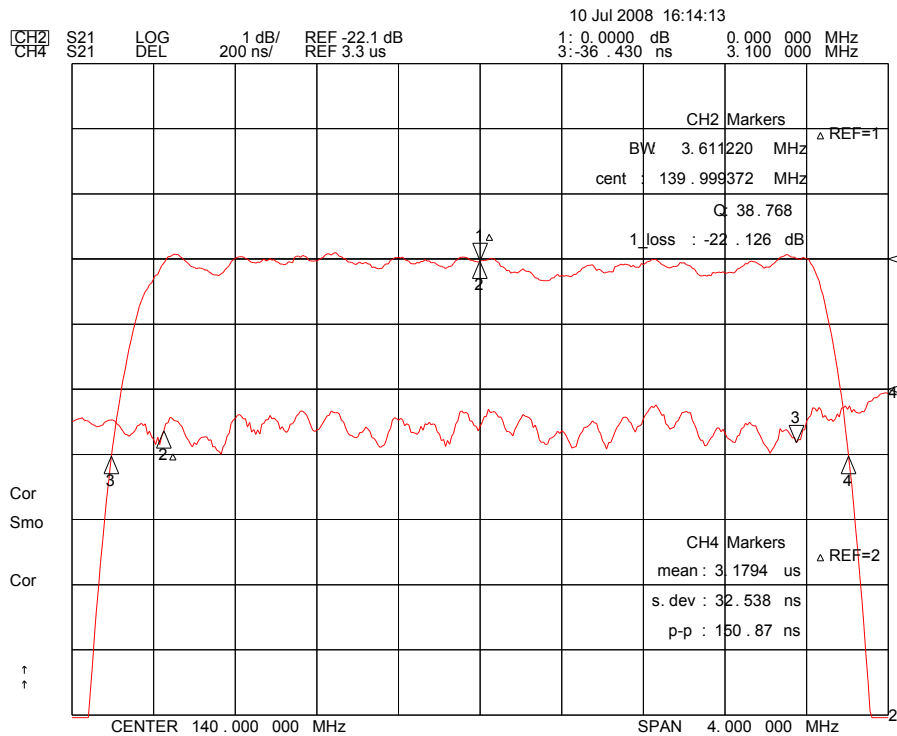
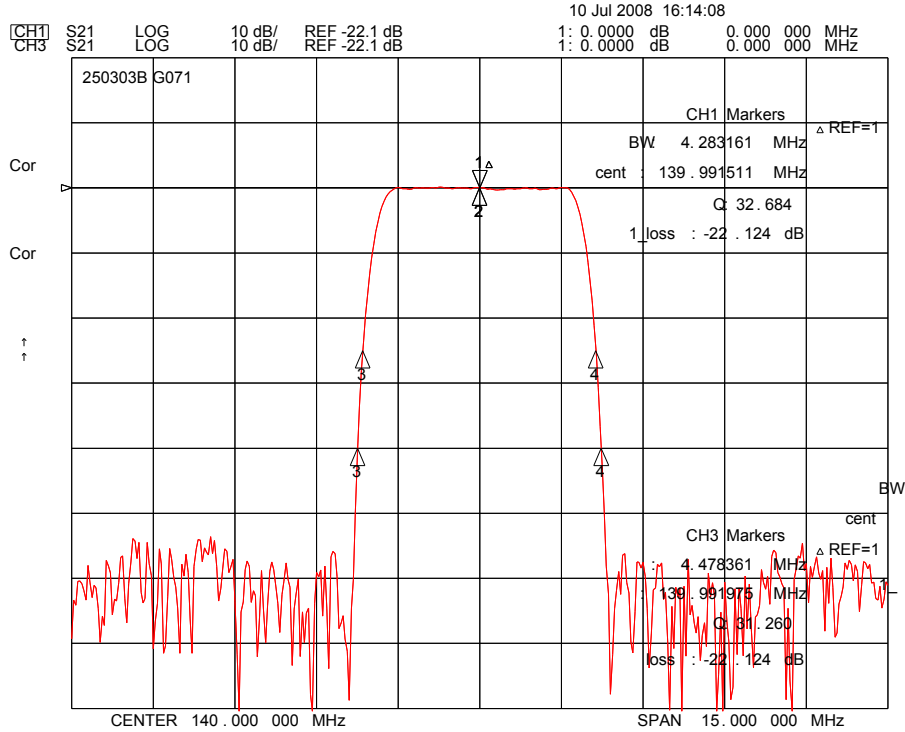
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 2dB-Bandwidth

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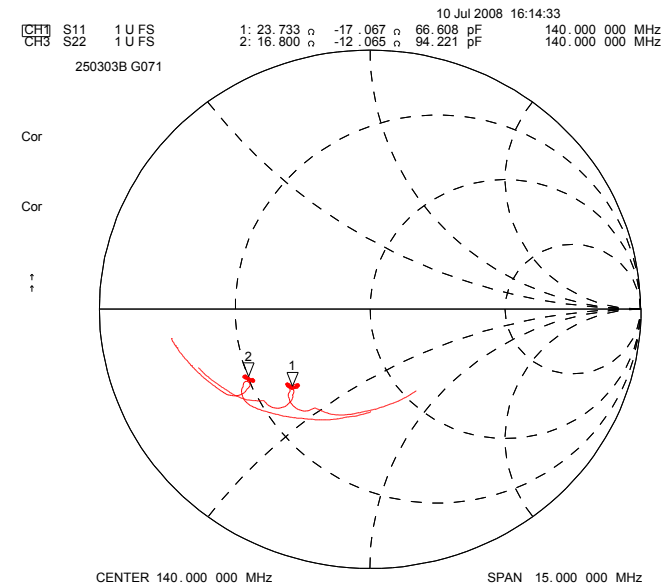
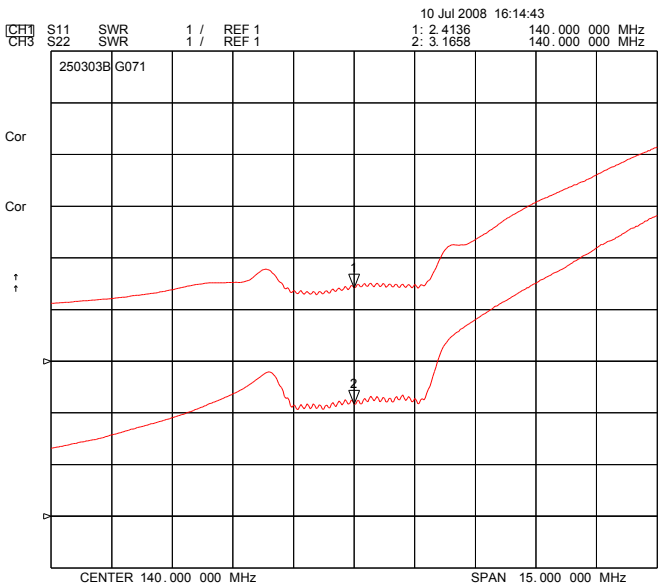
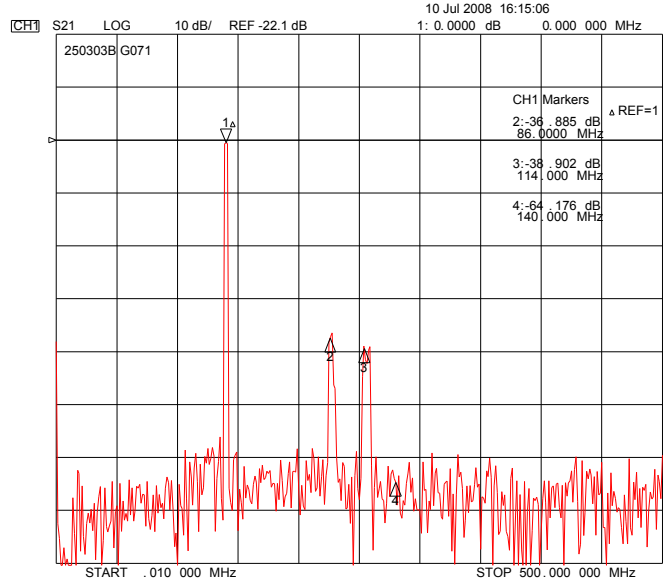
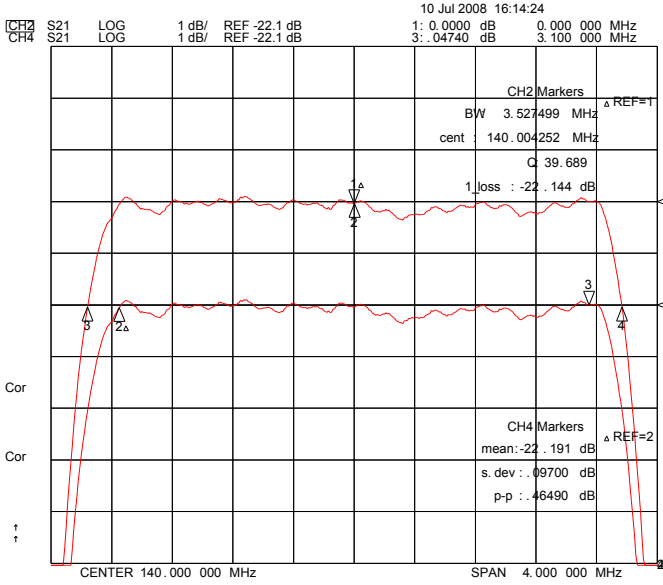
6. Typical Performance (at +25°C)



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