

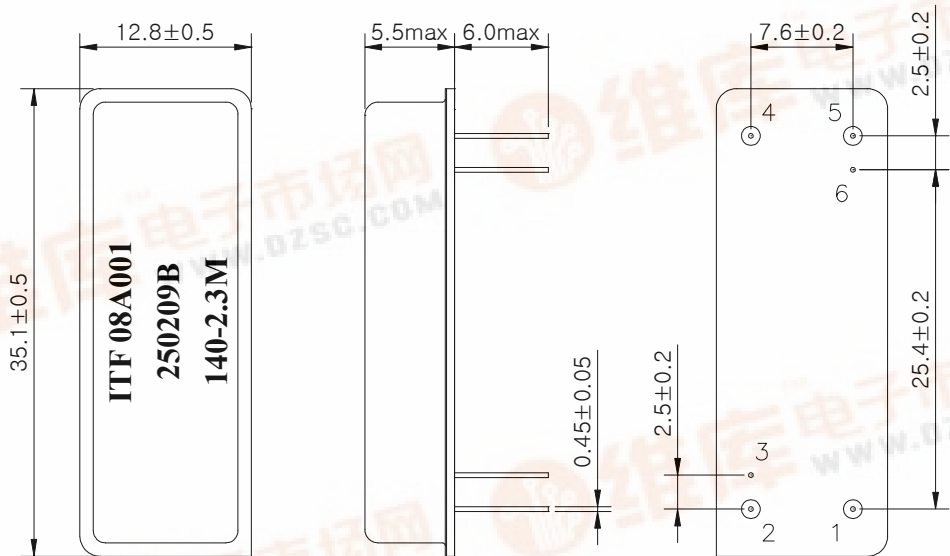
SAW Bandpass Filter 250209B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- Dip Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- 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.	250209B	
		Rev. Date	2008-06-26	
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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	-	2.34	2.4
25dB Bandwidth	MHz	-	3.14	3.2
40dB Bandwidth	MHz	-	3.35	-
Amplitude Ripple (Fo +/- 0.95 MHz)	dB	-	0.3	0.9
Group Delay Variation (Fo +/- 0.95 MHz)	nsec	-	150	250
Absolute Delay	usec	-	3.12	-
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

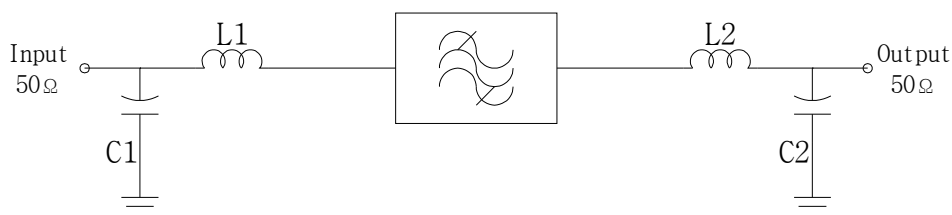
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4. Matching Schematic

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



$$L1 = L2 = 68 \text{ nH}$$

$$C1 = C2 = 39 \text{ pF}$$

5. Marking Configuration

ITF¹⁾08A001²⁾

250209B³⁾

140⁴⁾-2.3M⁵⁾

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center Frequency

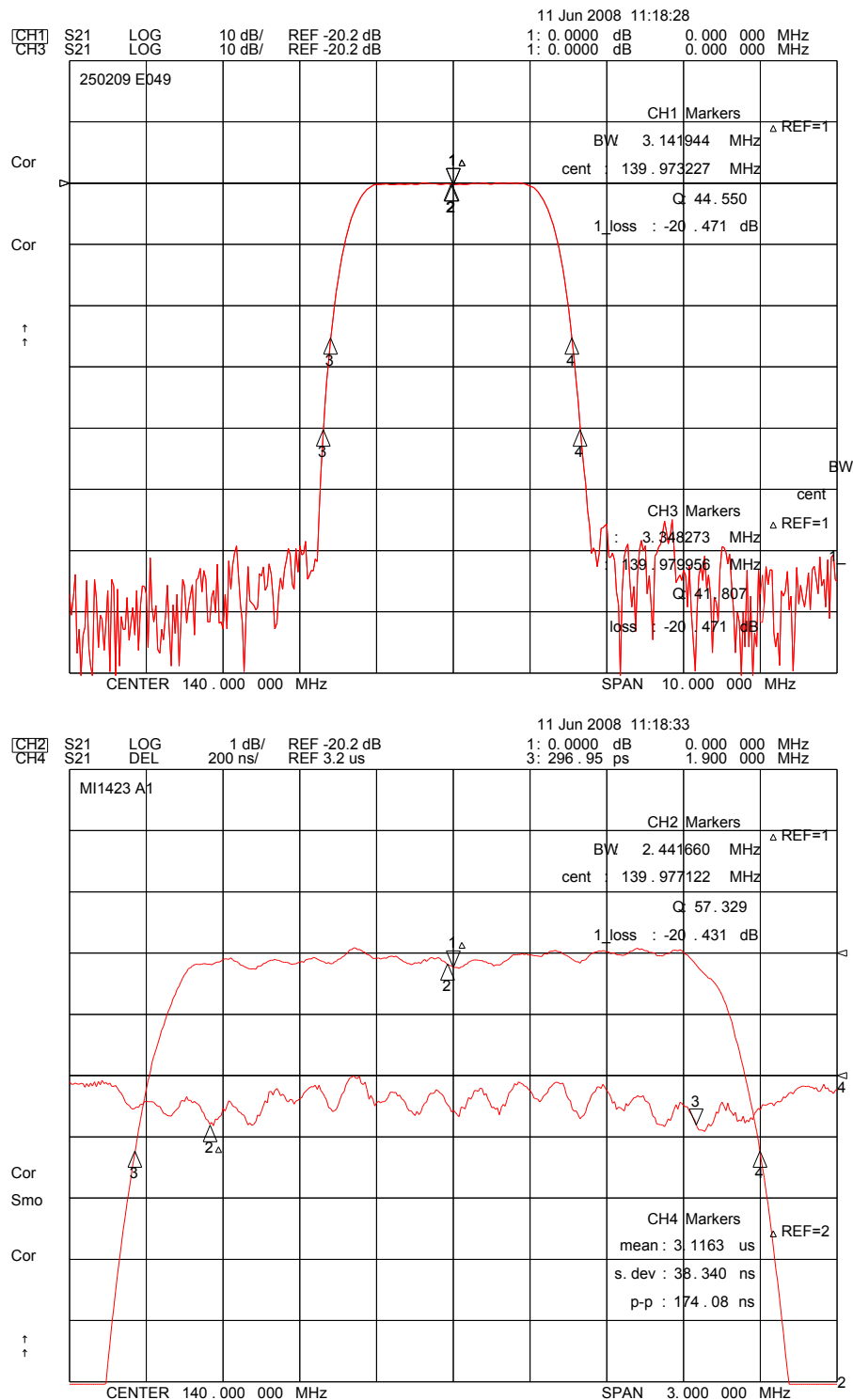
5) 2dB-Bandwidth

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6. Typical Performance (at +25°C)



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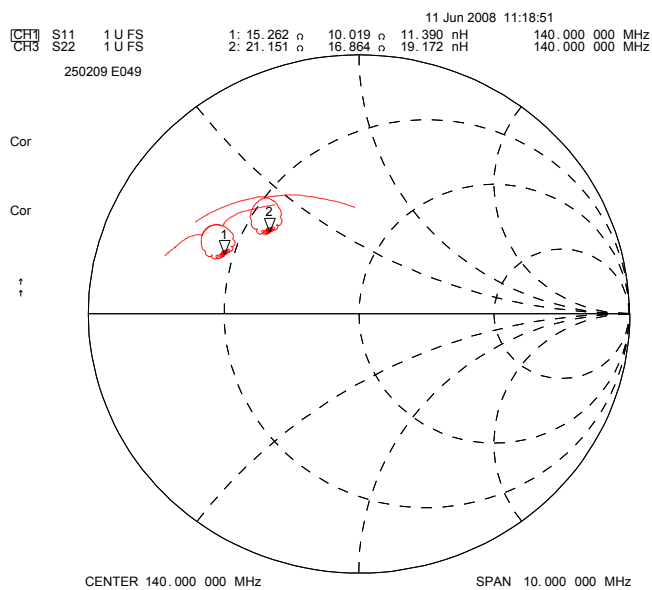
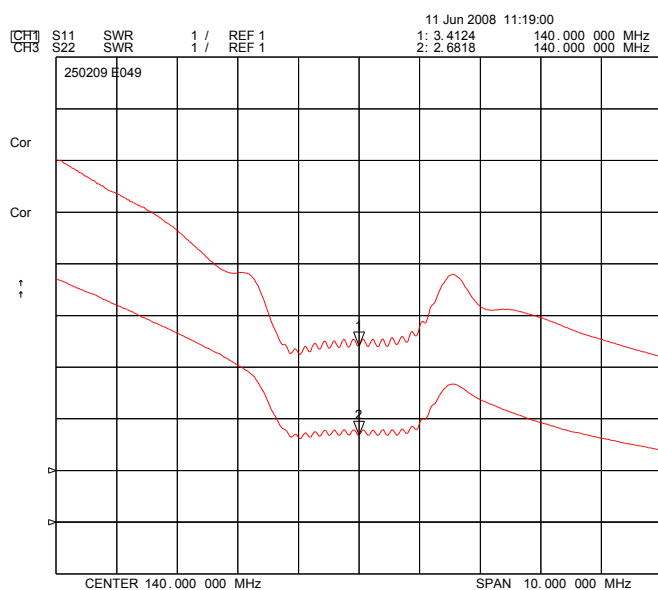
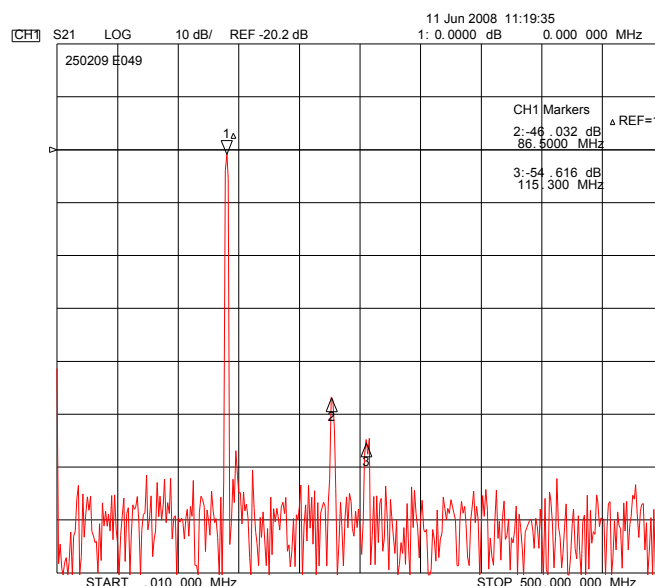
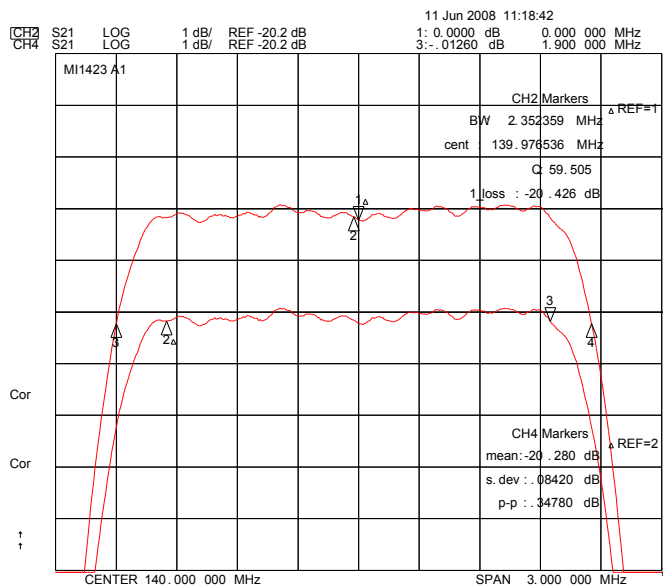
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