

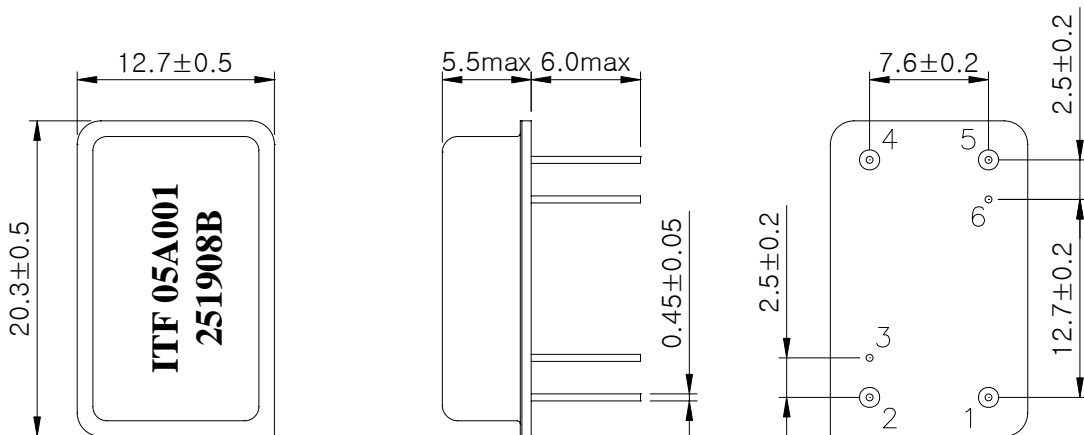
SAW Bandpass Filter 251908B



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

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251908B	
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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	139.85	140.0	140.15
Insertion Loss	dB	-	27.0	28.0
1dB Bandwidth	MHz	-	19.1	-
3dB Bandwidth	MHz	19.4	19.55	-
10dB Bandwidth	MHz	-	20.2	20.3
40dB Bandwidth	MHz	-	21.1	21.3
Amplitude Ripple (Fo +/- 9.375 MHz)	dB	-	0.8	1.2
Group Delay Variation (Fo +/- 9.375 MHz)	nsec	-	30	100
Absolute Delay	usec	-	3.2	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-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

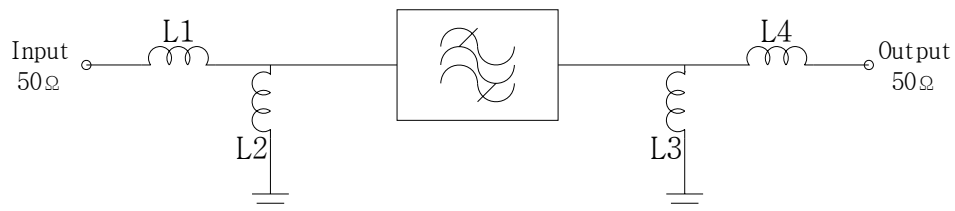
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4. Matching Schematic

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



L1 = 82nH, L2 = 68 nH

L3 = 68nH, L4 = 68 nH

5. Marking Configuration


ITF¹⁾05A001²⁾

251908B³⁾

1) Manufacturer name

2) Lot Number

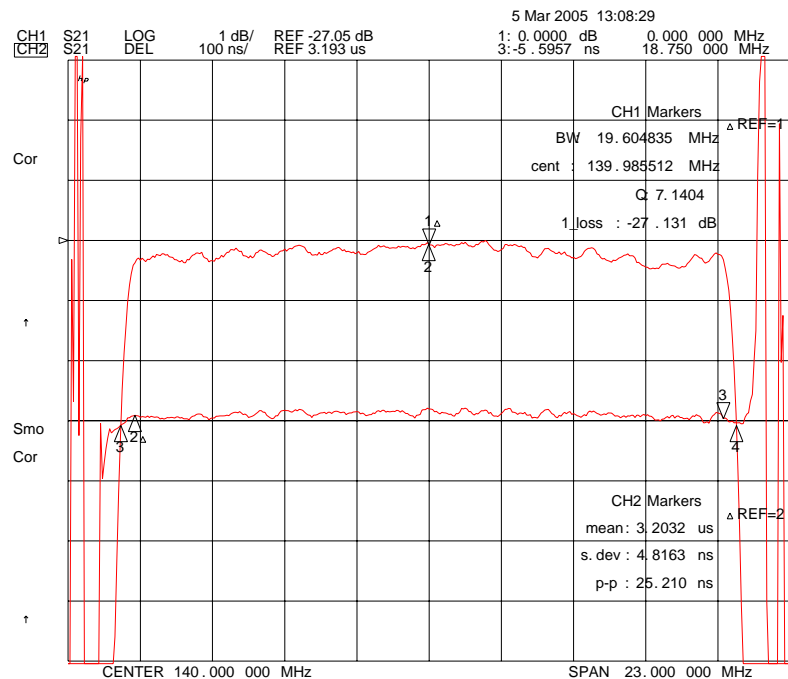
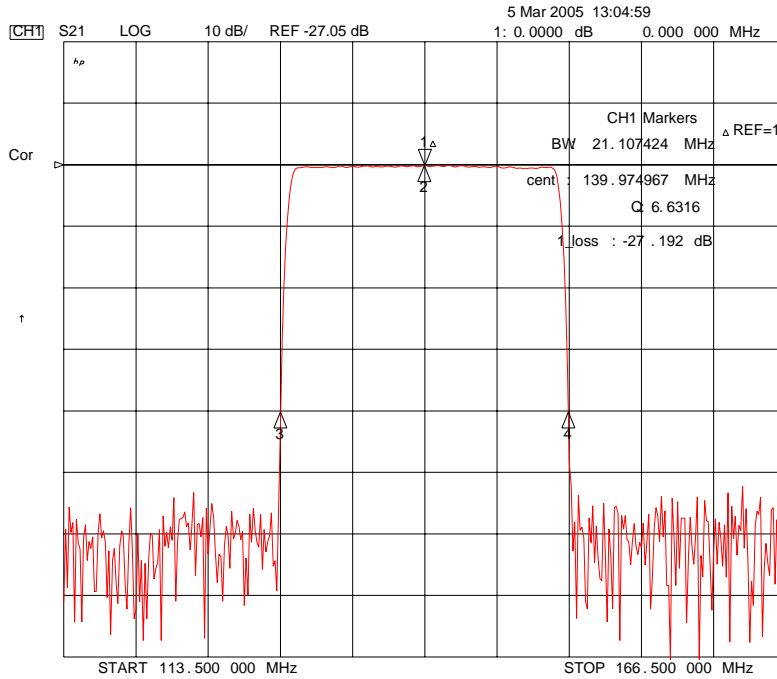
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6. Typical Performance (at +25°C)



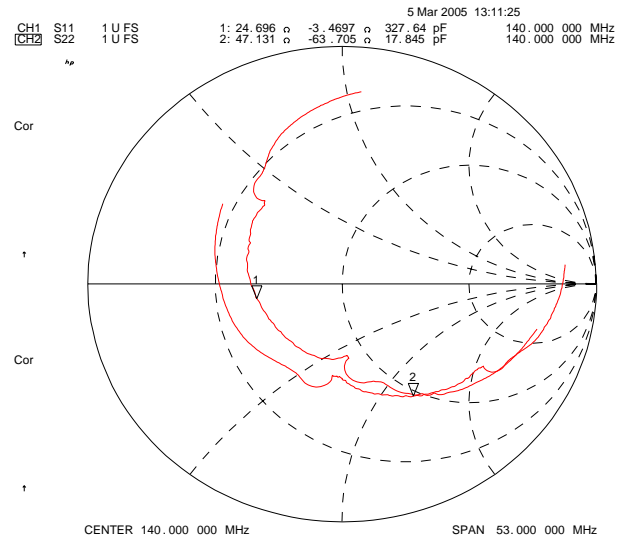
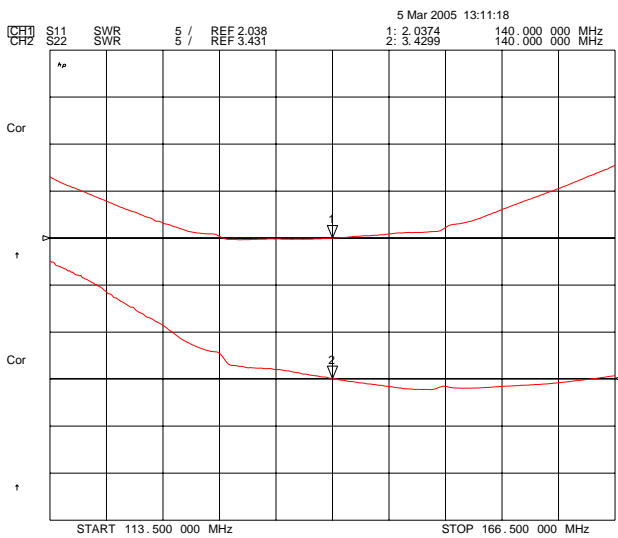
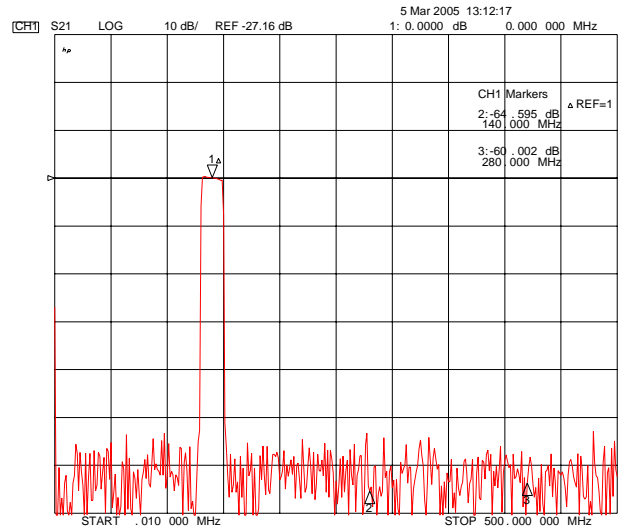
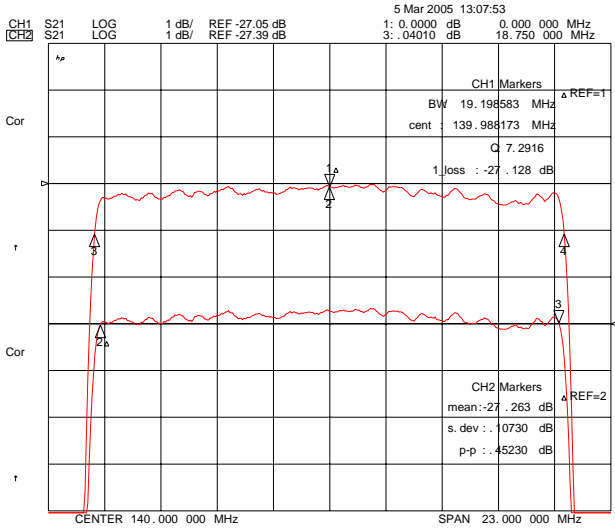
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