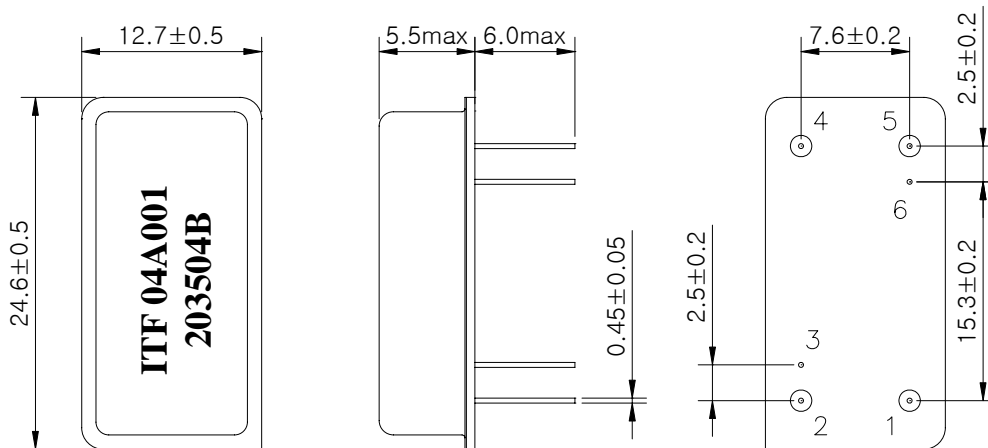


SAW Bandpass Filter 203504B

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 : D2512

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

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3. Specifications

Fo = 96.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : 20°C ~ 50°C		Minimum	Typical	Maximum
Center Frequency	MHz	96.45	96.5	96.55
Insertion Loss	dB	-	22.5	25.0
1dB Bandwidth	MHz	5.0	5.2	-
3dB Bandwidth	MHz	5.4	5.45	-
40dB Bandwidth	MHz	-	6.7	6.9
Amplitude Ripple (Fo +/- 2.5 MHz)	dB	-	0.7	1.5
Group Delay Variation (Fo +/- 2.5 MHz)	nsec	-	50	150
Absolute Delay	usec	-	3.95	-
Out of Band Rejection				
at 0.01 ~ 93.0 MHz	dB	40	45	-
at 100.0 ~ 300.0 MHz	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-23	-

Notes :

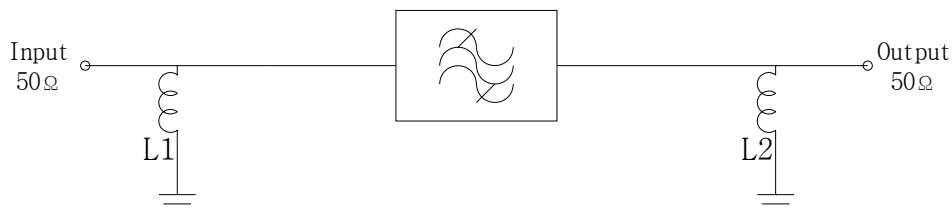
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) 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 = 56 nH, L2 = 56 nH

5. Marking Configuration

ITF¹⁾04A001²⁾
203504B³⁾

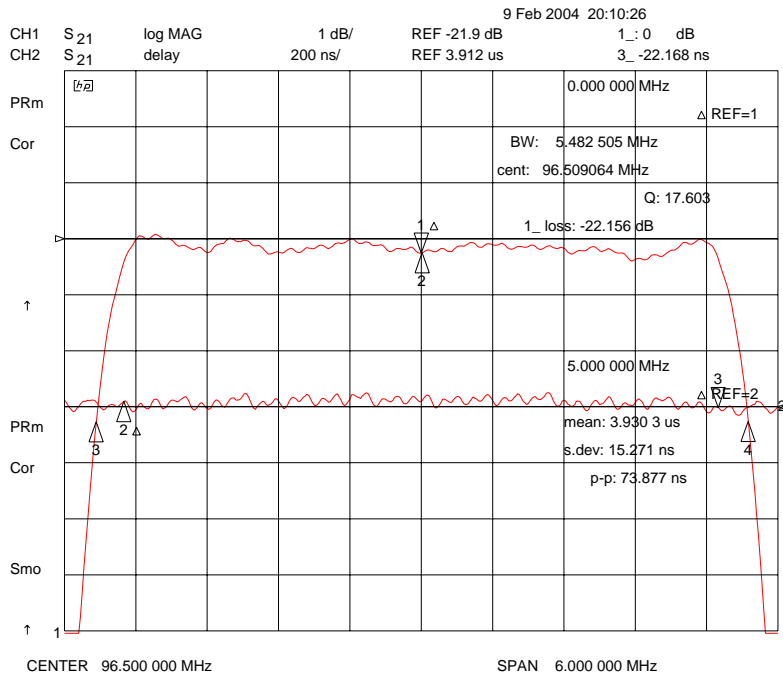
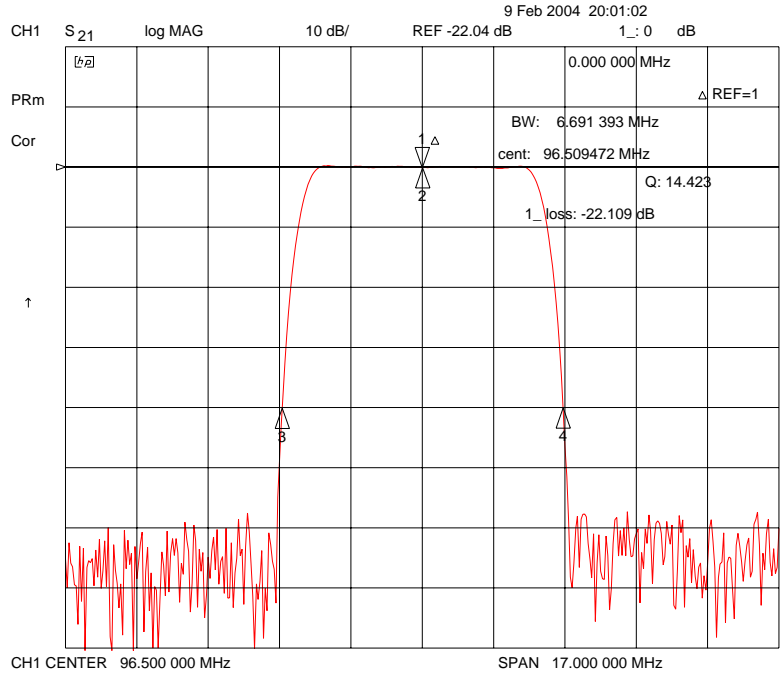
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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6. Typical Performance (at +25°C)



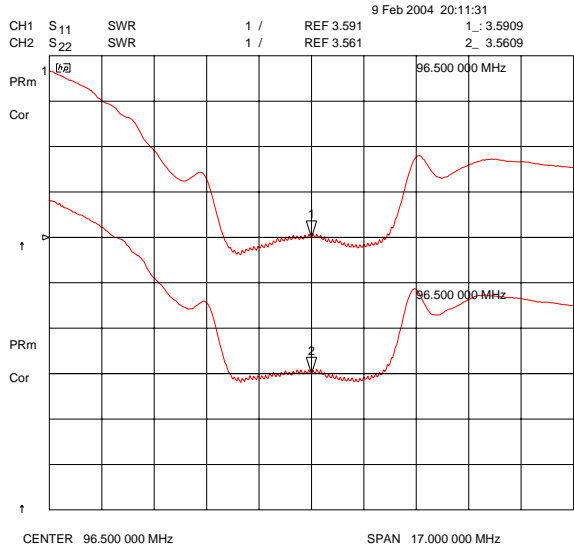
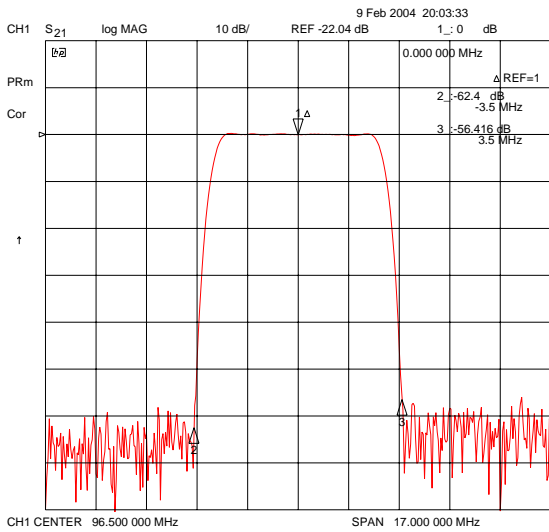
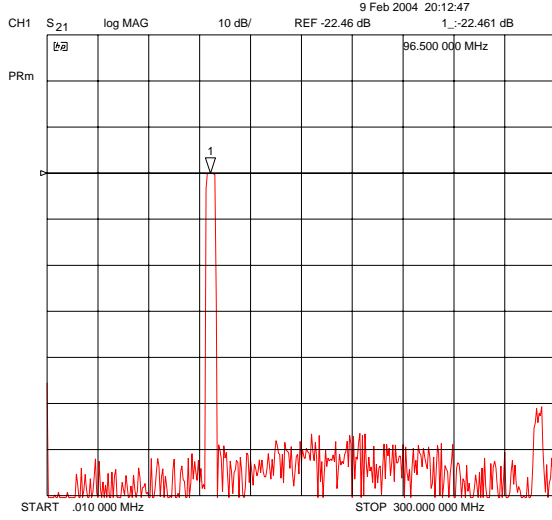
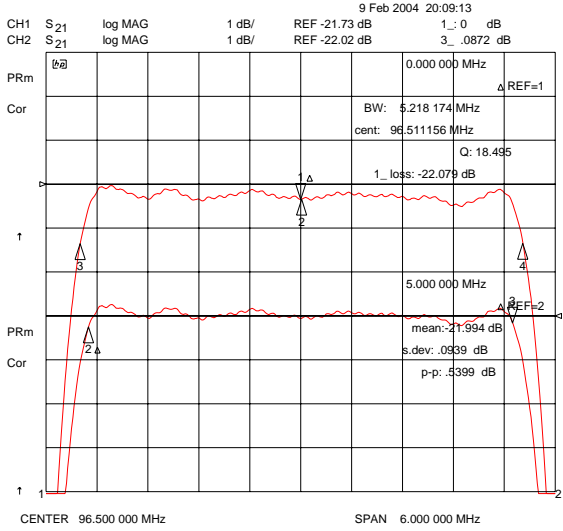
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