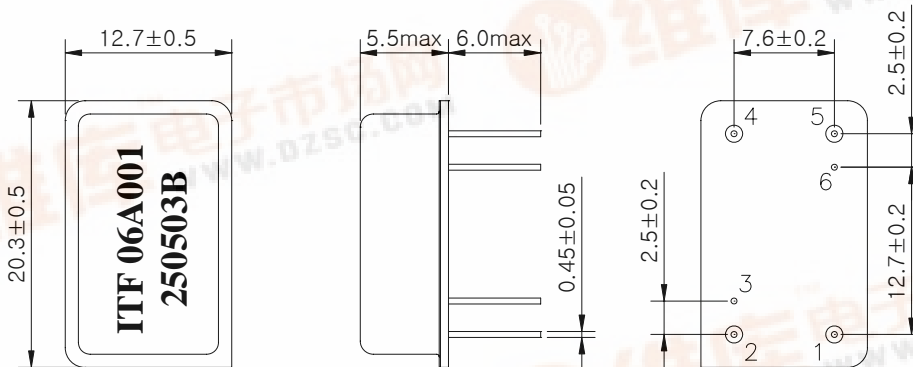


SAW Bandpass Filter 250503B

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
4	Output
2, 5	Ground
Other	Case ground

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3. Specifications

F_o = 183 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -10°C ~ +60°C		Minimum	Typical	Maximum
Center Frequency	MHz	-	183	-
Insertion Loss	dB	-	22.5	25.0
1dB Bandwidth	MHz	5.0	5.15	-
3dB Bandwidth	MHz	-	5.35	-
40dB Bandwidth	MHz	-	6.25	6.35
Amplitude Ripple (F _o +/- 2.5 MHz)	dB		0.8	1.2
Group Delay Variation (F _o +/- 2.5 MHz)	nsec	-	150	250
Absolute Delay	usec	-	2.58	-
Ultimate Rejection	dB	45	50	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

Notes :

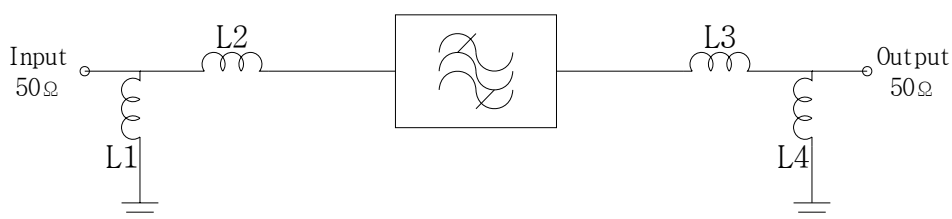
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 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 = L4 = 18 nH
L2 = 27 nH, L3 = 22 nH

5. Marking Configuration

ITF¹⁾06A001²⁾
250503B³⁾

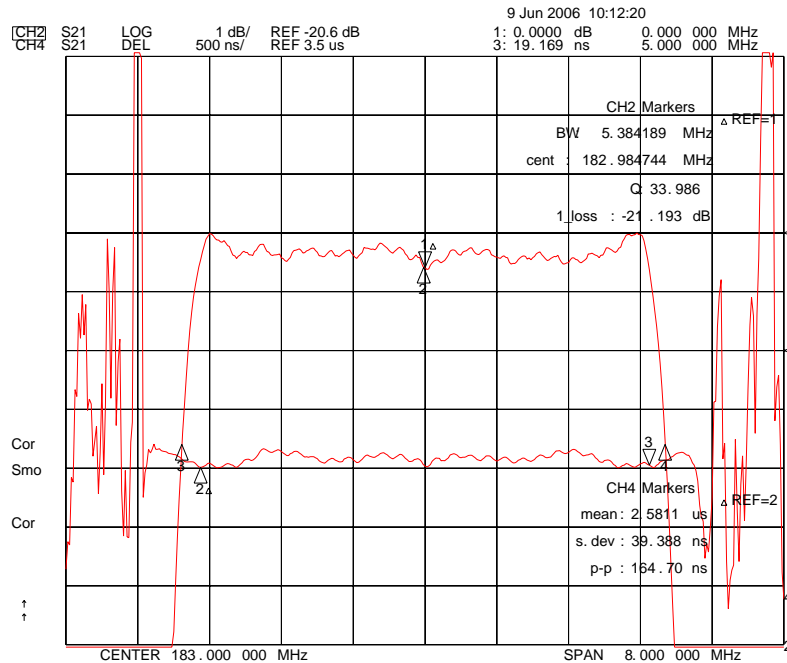
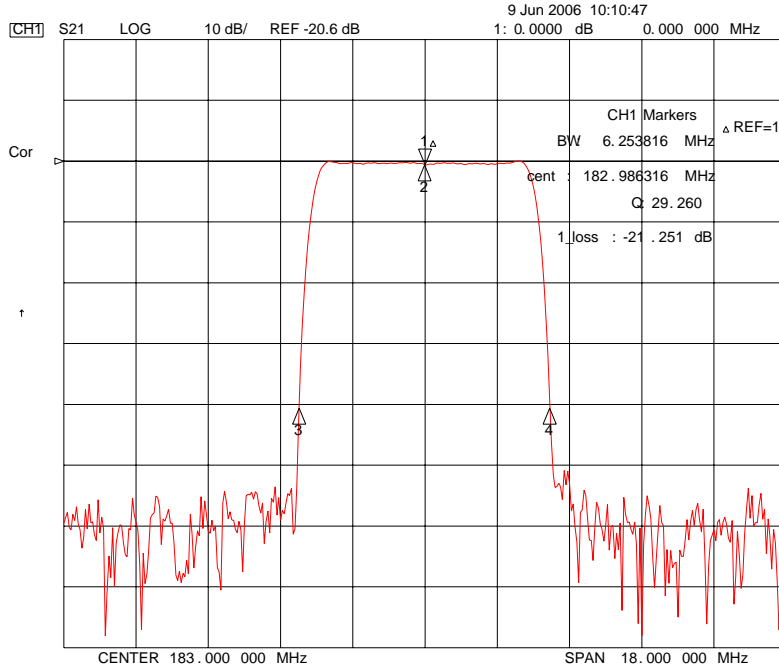
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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6. Typical Performance (at +25°C)



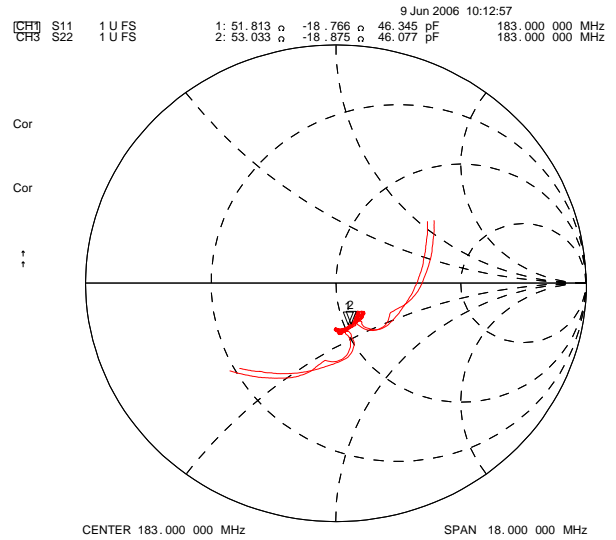
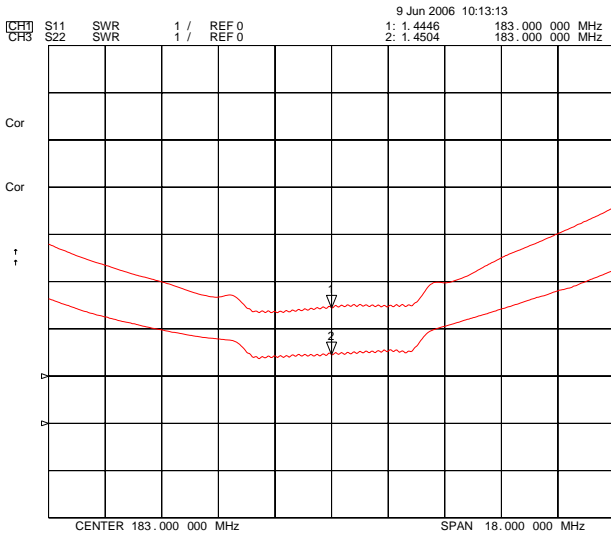
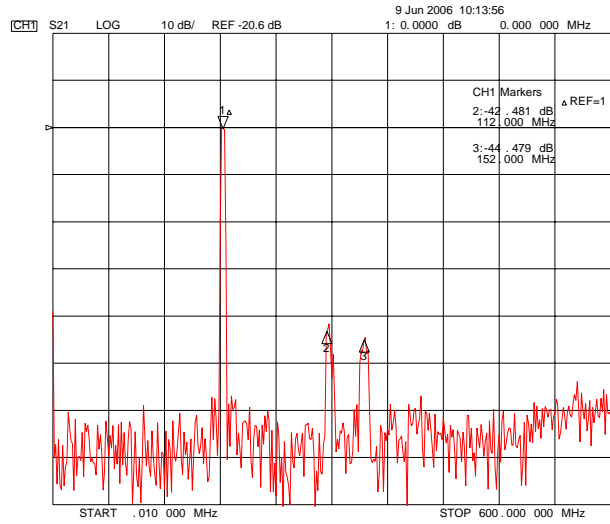
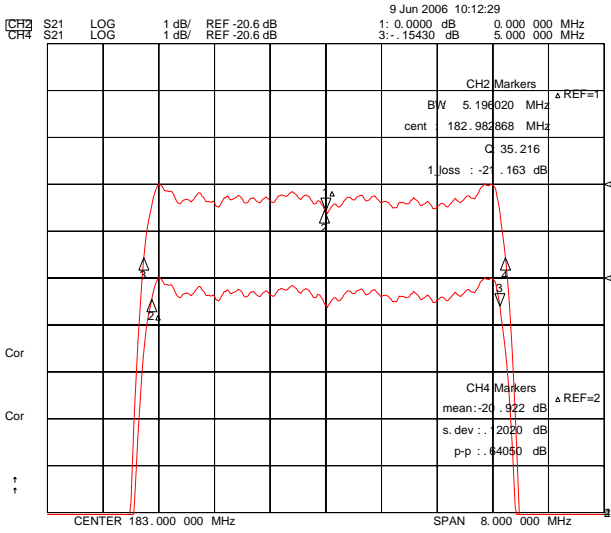
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