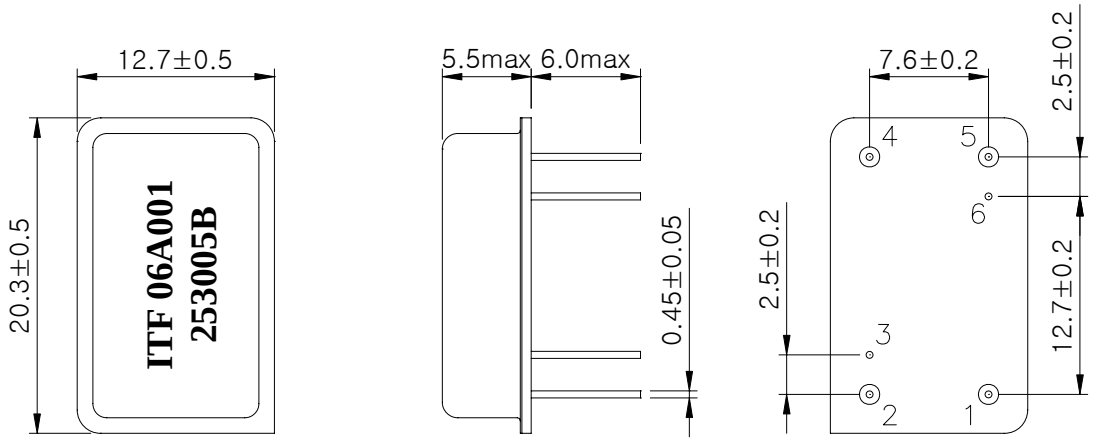
SAW Bandpass Filter 253005B

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 : 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

3. Specifications

Fo = 125.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : -30℃ ~ +85℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	125.0	-
Insertion Loss	dB	-	22.0	25.0
1dB Bandwidth	MHz	-	29.15	-
3dB Bandwidth	MHz	30	30.15	-
40dB Bandwidth	MHz	-	34.2	35
Amplitude Ripple (Fo +/- 13.5 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 13.5 MHz)	nsec	-	18	30
Absolute Delay	usec	-	0.95	1
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-80	-

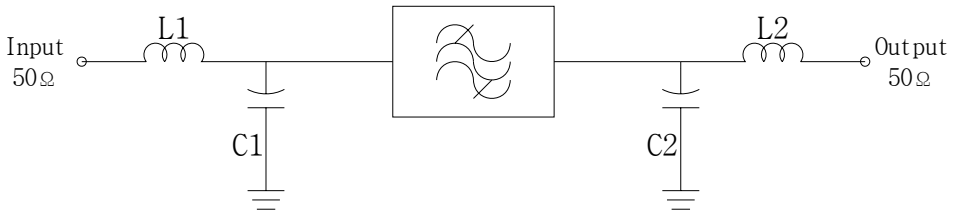
Room temperature : + 25 ℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	125.0	-
Amplitude Ripple (Fo +/- 14.0 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 14.0 MHz)	nsec	-	18	30

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

4. Matching Schematic

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



L1 = 82nH, L2 = 82nH

C1 = 3pF, C2 = 3pF

5. Marking Configuration

ITF[1] 06A001[2]

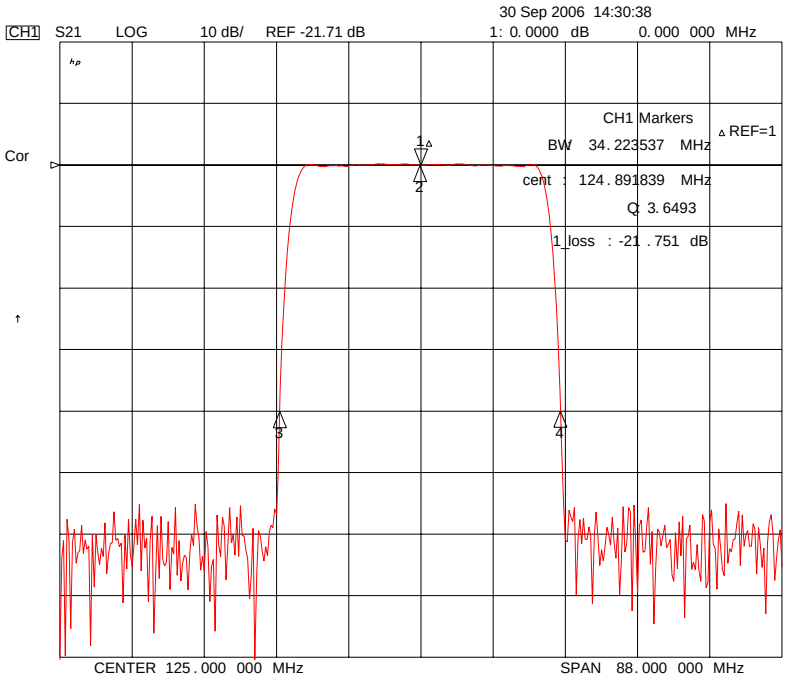
253005B[3]

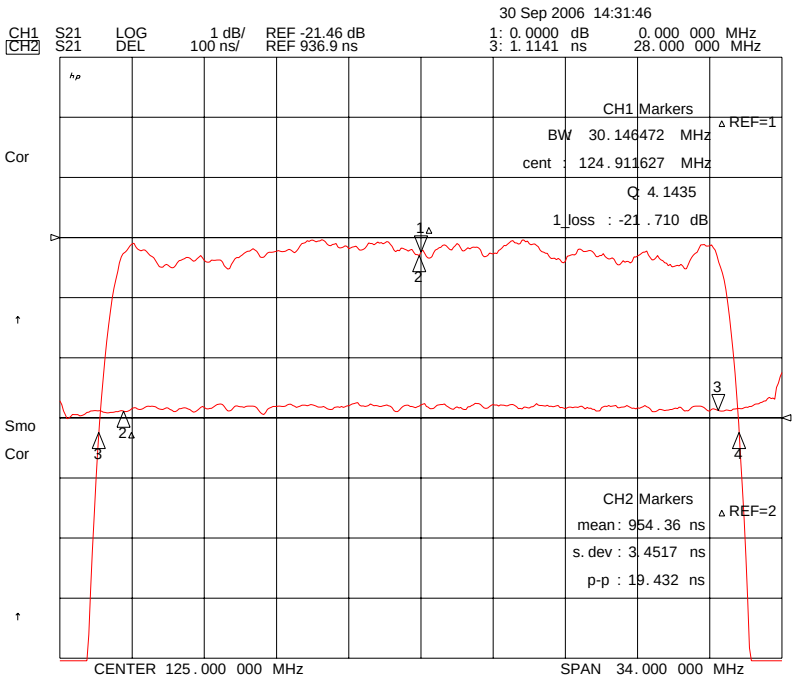
1) Manufacturer name

2) Lot Number

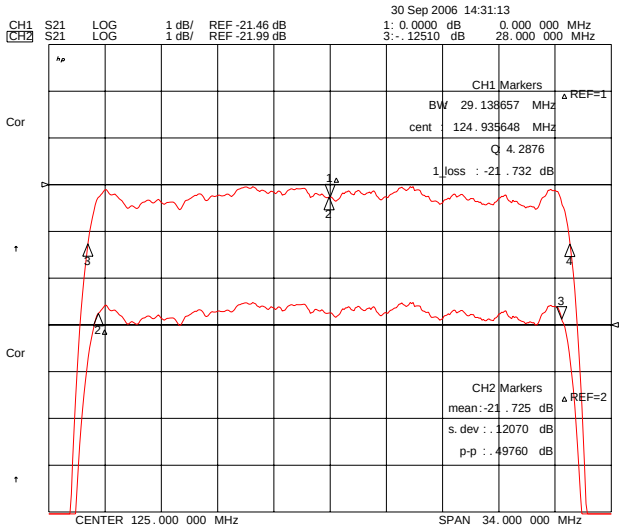
3) Part Number

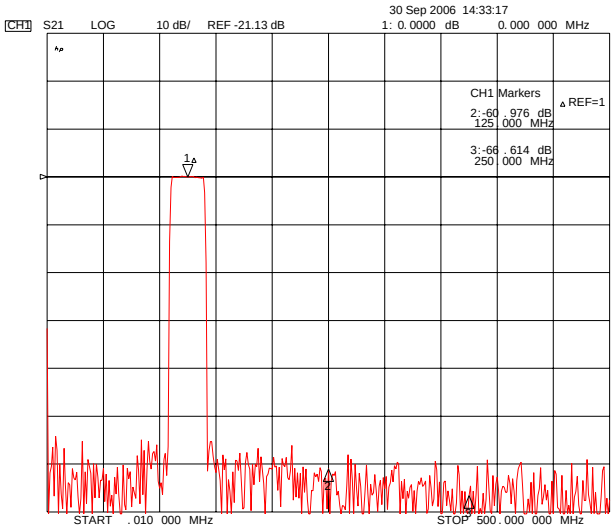
6. Typical Performance (at +25℃)

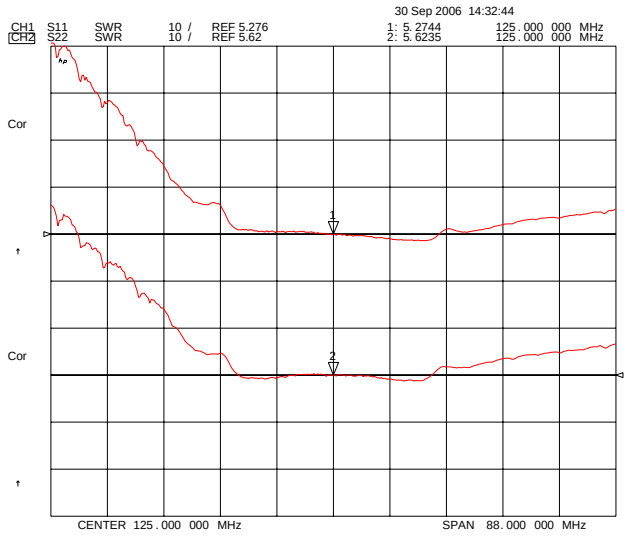


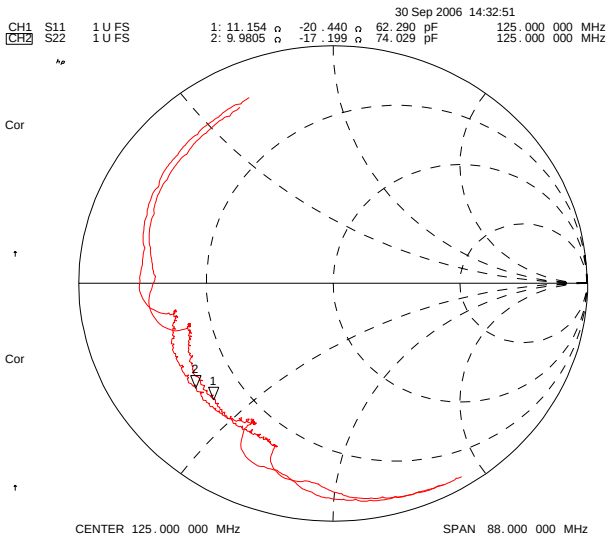


SAW Bandpass Filter 253005B









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Part No.	253005B	
Rev. Date	2006-10-09	
Rev.	NM6034-CS01	5/10