

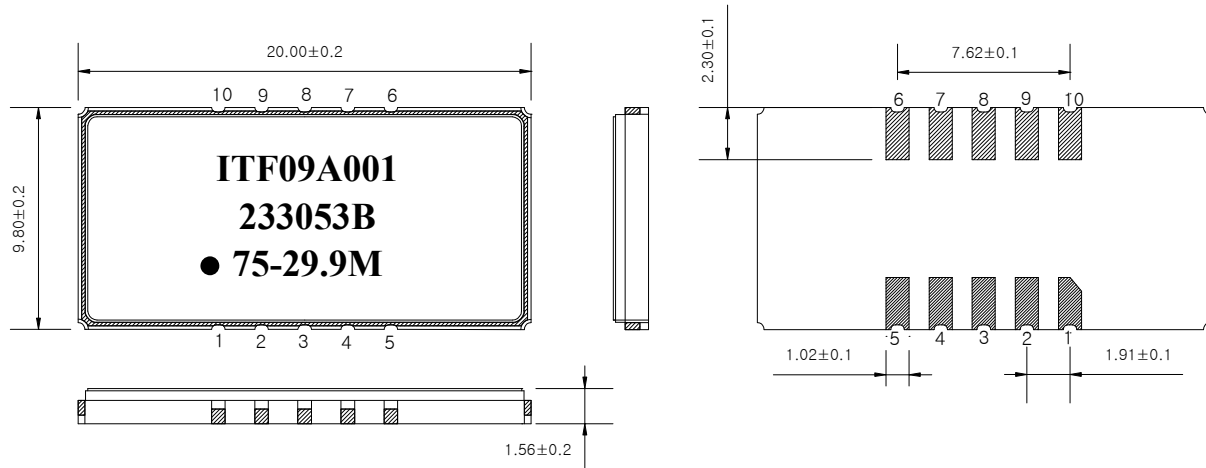
SAW Bandpass Filter 233053B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- SMD Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S 20.0 X 9.8

Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

Pad Configuration	
10	Input
5	Output
1,4	Ground
Other	Case ground



ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No.	233053B	
Rev. Date	2009-04-15	
Rev.	NM8023-CS01	1/5

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3. Specifications

Fo = 75.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room Temperature : +25°C		Minimum	Typical	Maximum
Center Frequency	MHz	-	75.0	-
Insertion Loss	dB	-	27.0	29.0
1dB Bandwidth	MHz	29.8	29.85	-
3dB Bandwidth	MHz	-	30.16	-
40dB Bandwidth	MHz	-	31.56	31.75
Amplitude Ripple (fo± 14.7 MHz)	dB	-	0.55	1.0
Group Delay Variation (fo± 14.7 MHz)	Nsec	-	25	50
Absolute Delay	Usec	-	2.1	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

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

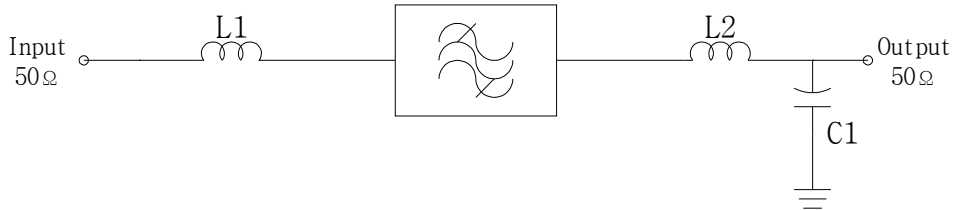
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4. Matching Schematic

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



$$L1 = L2 = 150\text{nH}$$

$$C1 = 8\text{pF}$$

5. Marking Configuration

ITF¹⁾ 09A001²⁾

233053B³⁾

75⁴⁾ -29.9M⁵⁾

●⁶⁾

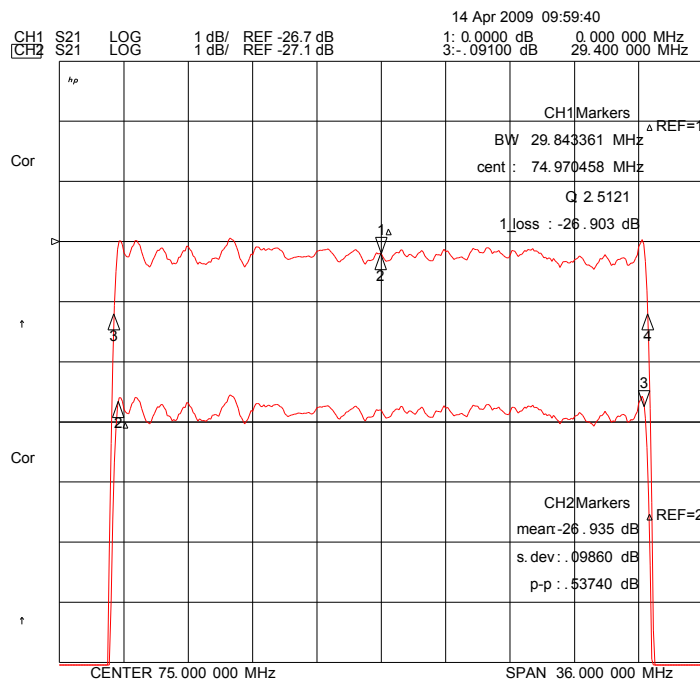
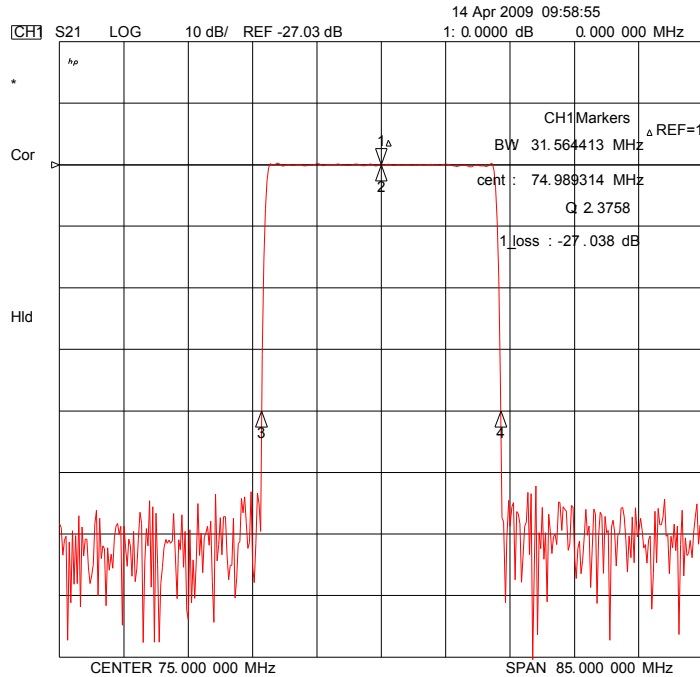
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center frequency
- 5) 1dB-Bandwidth
- 6) Pad No.1 Index

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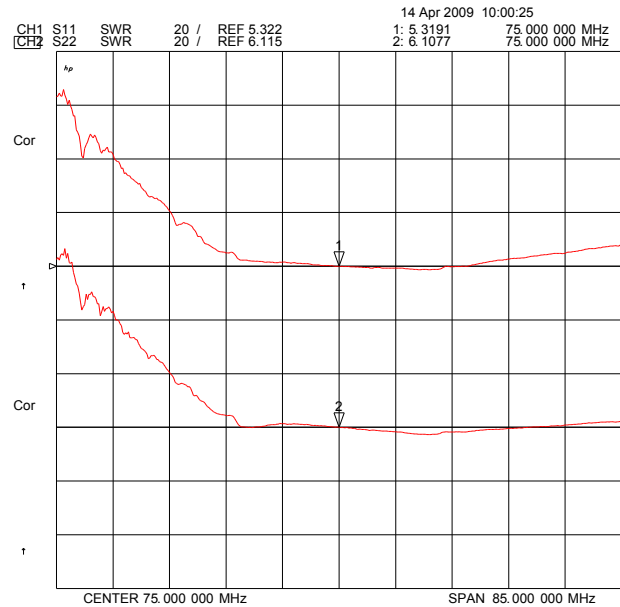
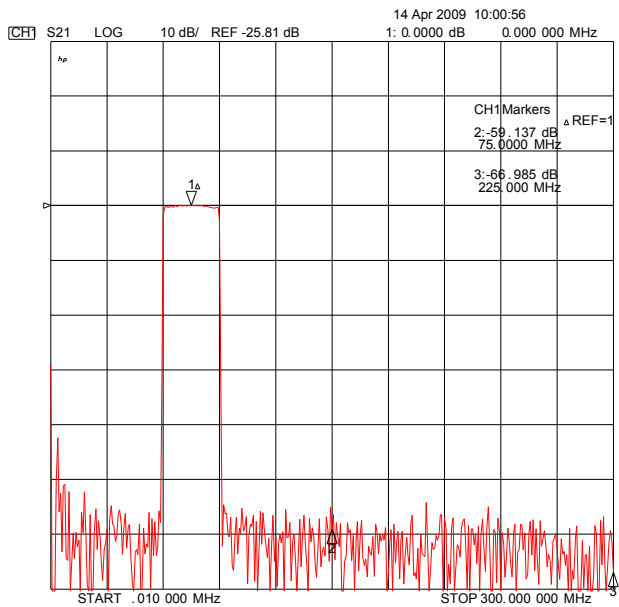
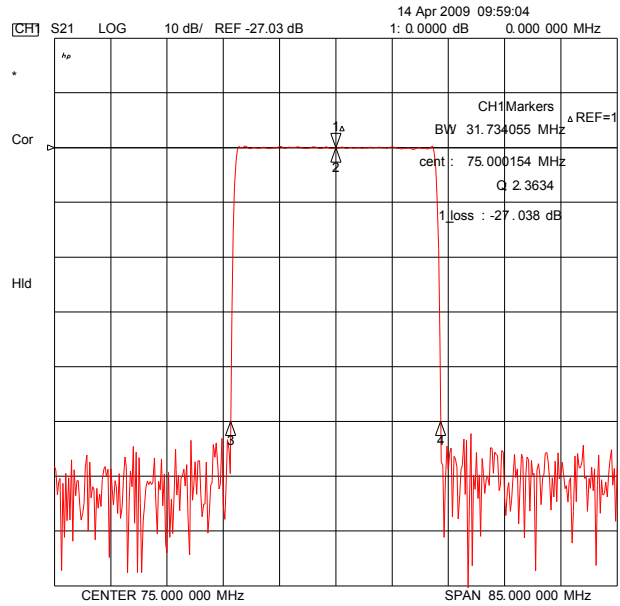
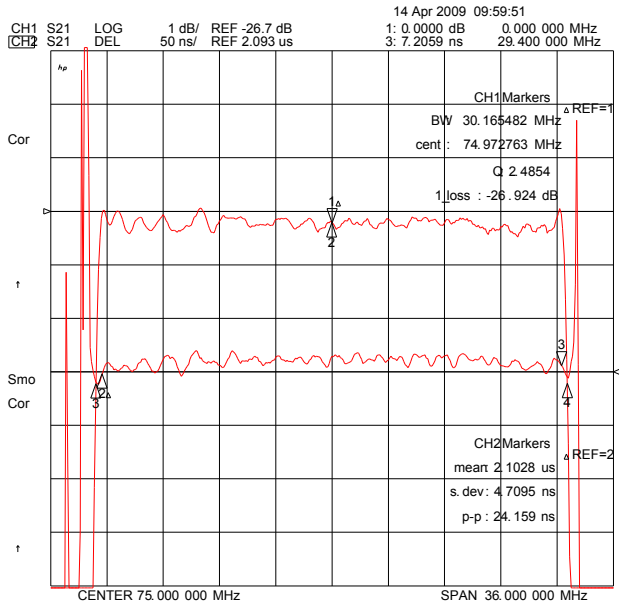
6. Typical Performance (at +25°C)



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