

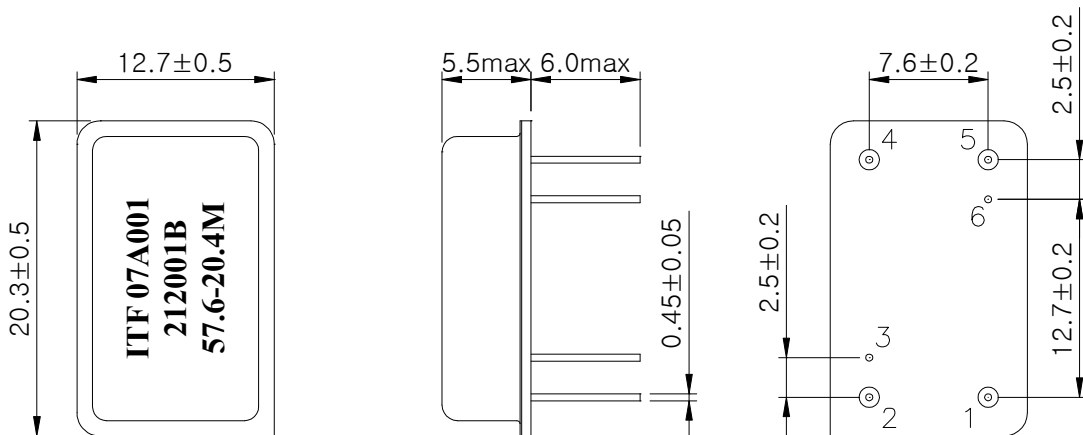
# SAW Bandpass Filter 212001B



## 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

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	212001B	
		Rev. Date	2007-12-04	
		Rev.	NM7034-CS01	1/5

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## 3. Specifications

Fo = 57.6 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : -30℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	57.6	-
Insertion Loss	dB	-	26.9	28.0
1dB Bandwidth	MHz	20.2	20.41	-
3dB Bandwidth	MHz	-	20.91	-
40dB Bandwidth	MHz	-	22.65	22.8
Amplitude Ripple (fo±9.8 MHz)	dB	-	0.46	1.0
Group Delay Variation (fo±9.8 MHz)	nsec	-	32	50
Absolute Delay	usec	-	1.91	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/℃	-	-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

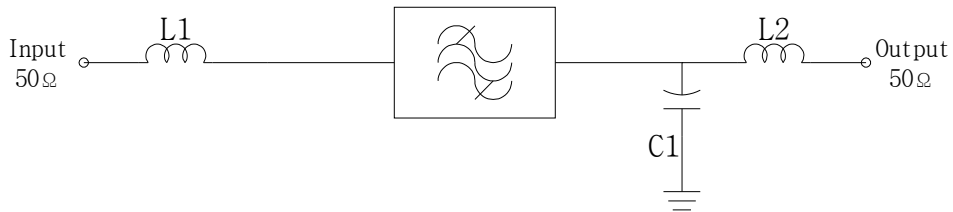
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## 4. Matching Schematic

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



L1 = 180nH, L2 = 180nH

C1 = 16pF

## 5. Marking Configuration

ITF<sup>1)</sup> 07A001<sup>2)</sup>

212001B<sup>3)</sup>

57.6<sup>4)</sup> -20.4M<sup>5)</sup>

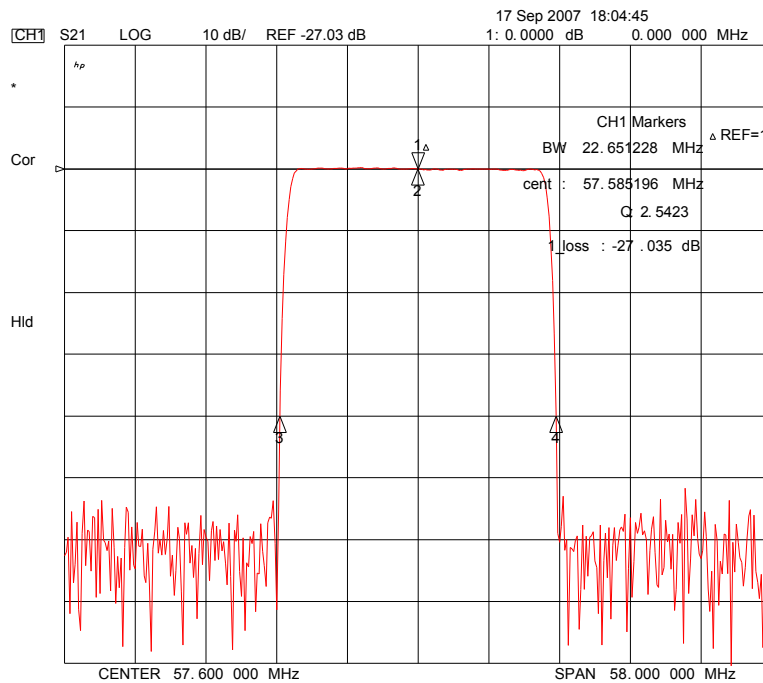
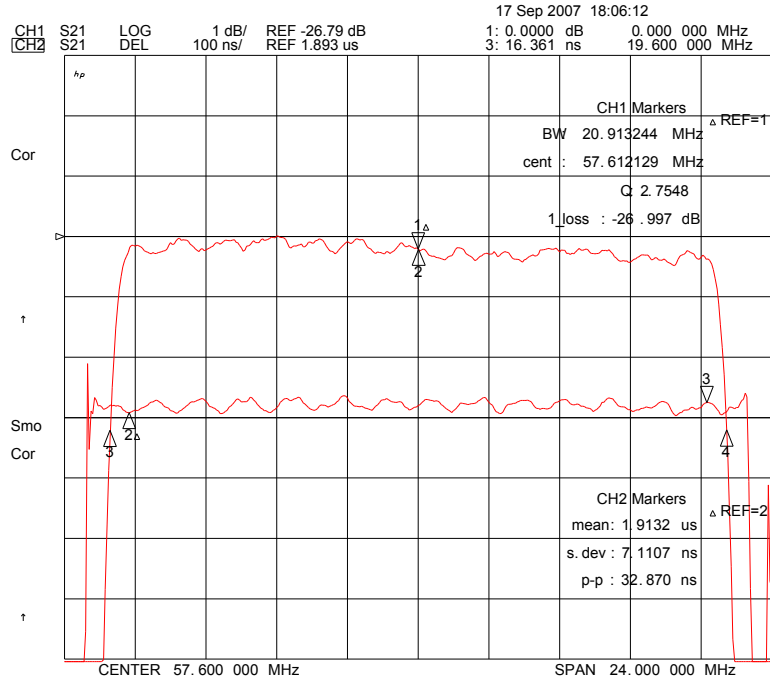
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

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## 6. Typical Performance ( at +25°C )



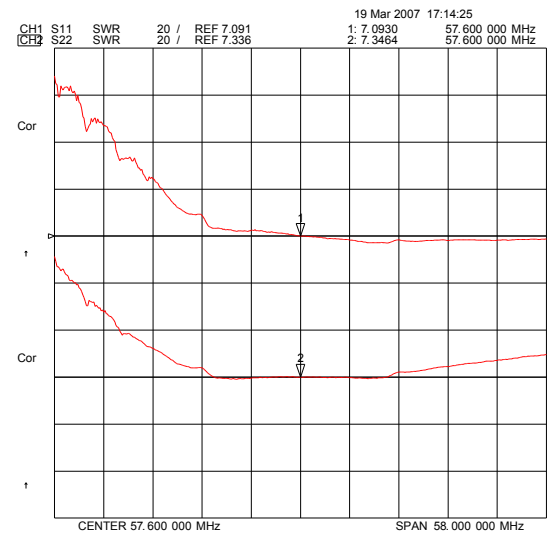
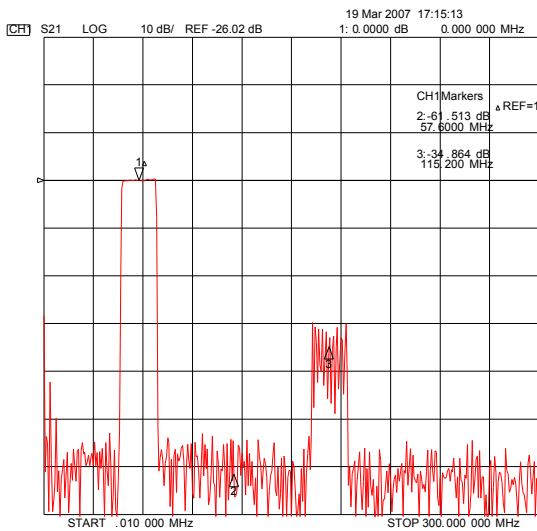
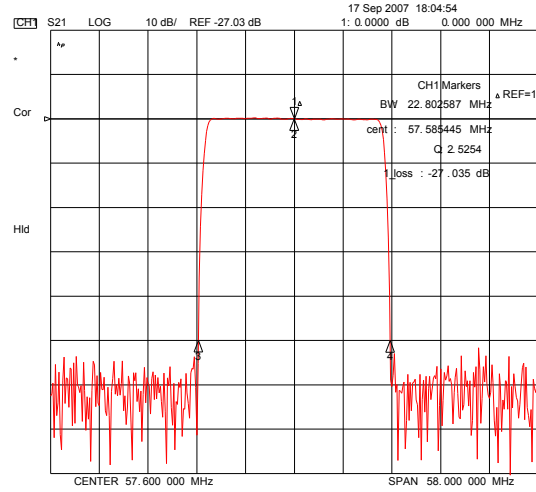
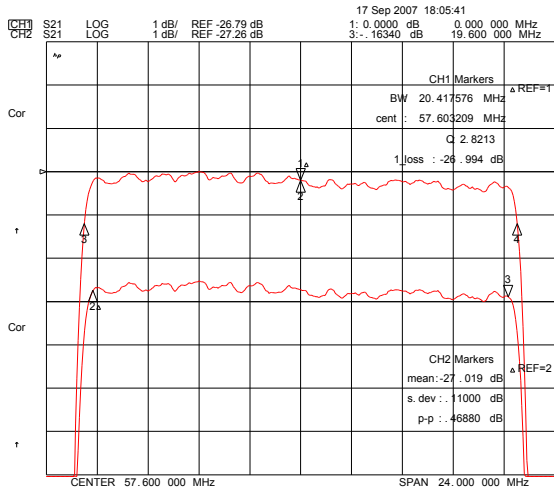
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