

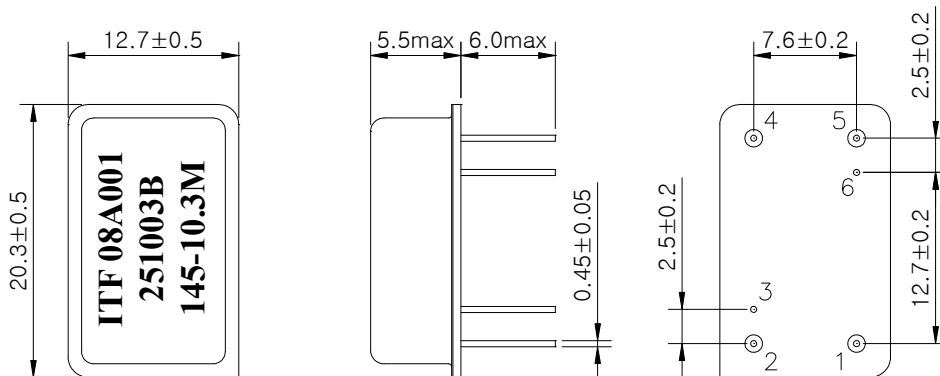
SAW Bandpass Filter 251003B



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



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

Part No. 251003B

Rev. Date 2008-08-13

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3. Specifications

Fo = 145.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	145.0	-
Insertion Loss	dB	-	22.5	24.0
1dB Bandwidth	MHz	10.2	10.38	-
3dB Bandwidth	MHz	-	10.73	-
40dB Bandwidth	MHz	-	12.25	12.4
Amplitude Ripple (Fo +/- 4.9 MHz)	dB	-	0.4	1.0
Group Delay Variation (Fo +/- 4.9 MHz)	nsec	-	40	100
Absolute Delay	usec	-	3.26	-
Ultimate Rejection	dB	50	58	-
Temperature Coefficient of Frequency	ppm/°C	-	-18	-

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

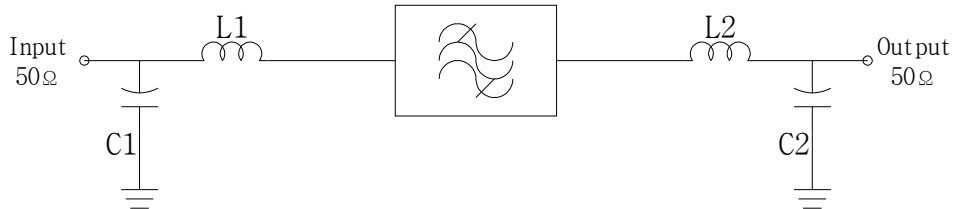
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251003B	
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4. Matching Schematic

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



$$L1 = L2 = 39\text{nH}, C1 = C2 = 43\text{pF}$$

5. Marking Configuration

ITF¹⁾ 08A001²⁾

251003B³⁾

145⁴⁾ -10.3M⁵⁾

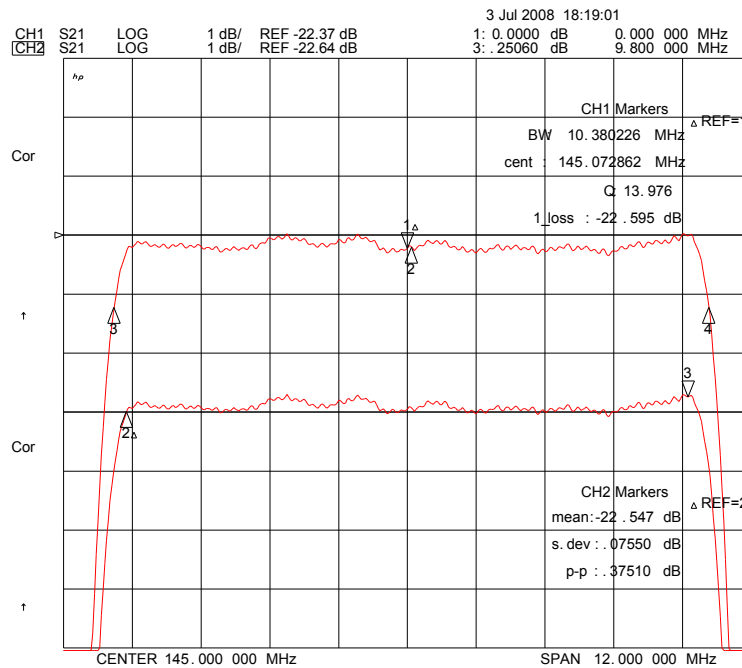
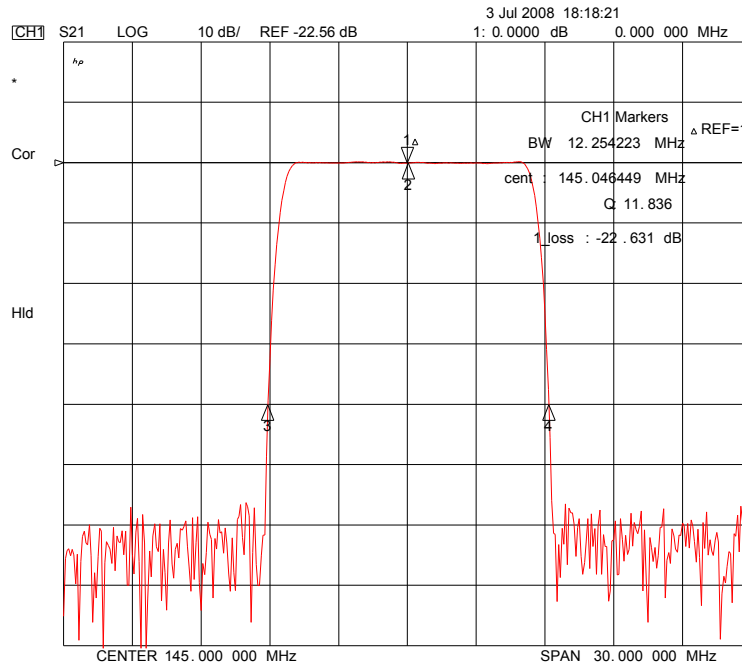
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

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6. Typical Performance (at +25°C)



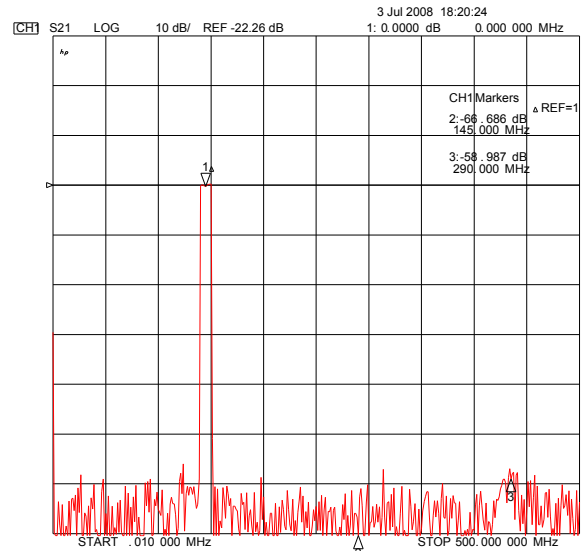
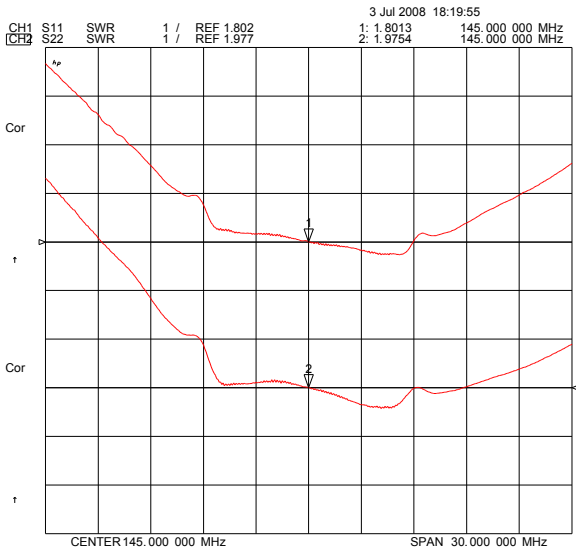
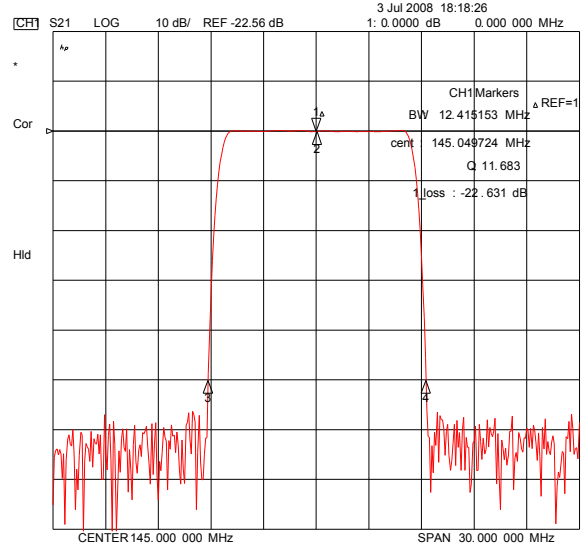
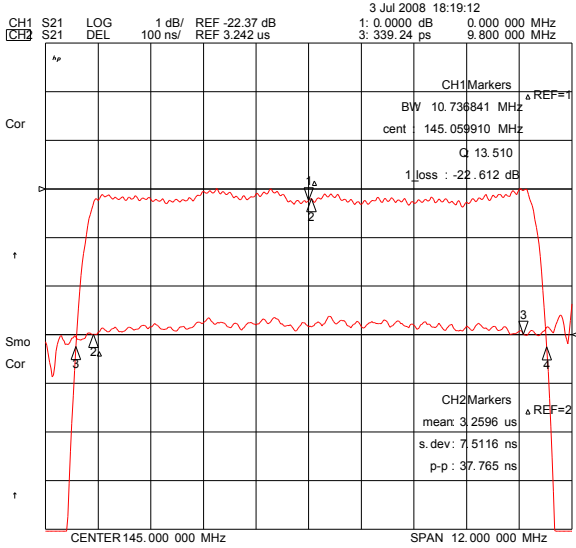
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