125.1 MHz SAW Filter
Part Number 253102B

1. Features

- Typical 1dB bandwidth of 30.4 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

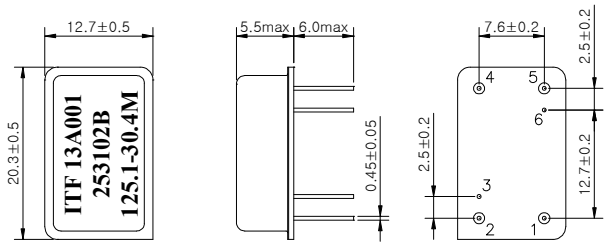
2. Electrical Specifications

Source and Load Impedance = 50Ω

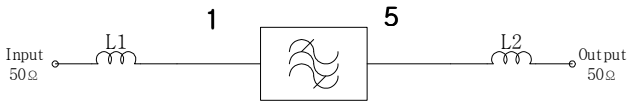
Operating Temperature : -30℃ ~ +85℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	125.1	-
Insertion Loss	dB	-	23.2	24.5
1dB Bandwidth	MHz	30.3	30.46	-
3dB Bandwidth	MHz	-	31.0	-
40dB Bandwidth	MHz	-	33.2	33.35
Amplitude Ripple (Fo±14.22 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo±14.22 MHz)	nsec	-	20	50
Absolute Delay	usec	-	1.29	-
Ultimate Rejection	dB	48	52	-
Maximum input Power	dBm	-	-	10
Temperature Coefficient of Frequency	ppm/℃	-	-72	-

Room Temperature : +25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	23.2	24.5
Amplitude Ripple (Fo±14.72 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo±14.72 MHz)	nsec	-	20	50

D2012 Package Dimension



Matching Schematic



L1 = 56nH, L2 = 68nH

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			
Input	1	Ground	2,4
Output	5	Others	Ground

I T F Co., Ltd.
102-901, Bucheon Technopark 364, Samjeong-Dong,
Ojeong-Gu, Bucheon-City,
Gyounggi-Do, Korea 421-809

Tel: 82-32-621-1213
Fax: 82-32-621-1218

http://www.itf.co.kr
sales@itf.co.kr

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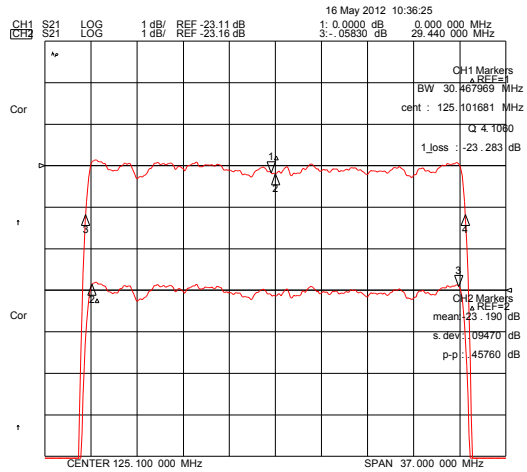
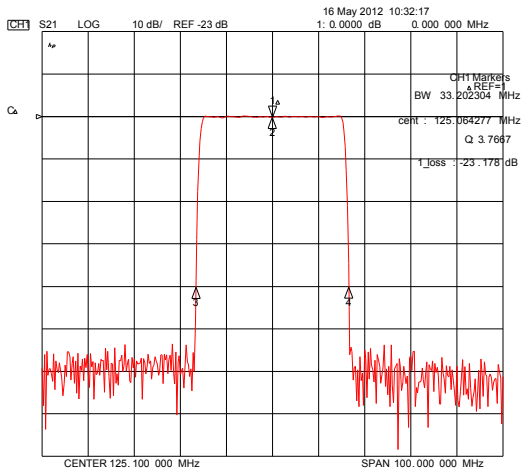
Rev 1.0

3. Typical Performance (at +25℃)

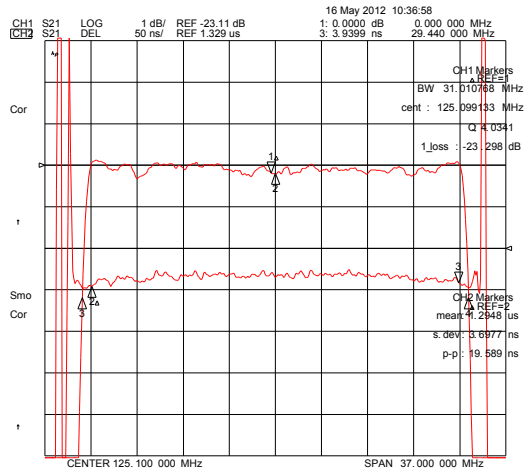
1dB Bandwidth & Ripple



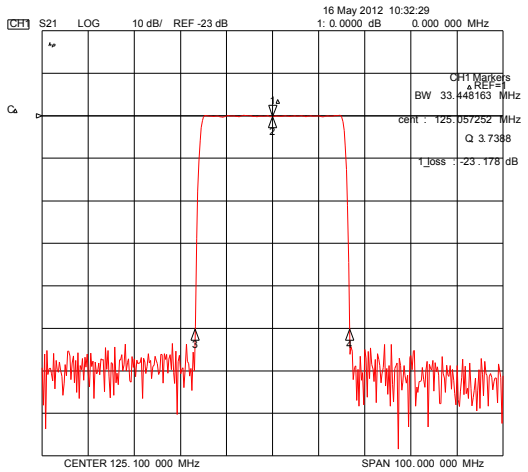
40dB Bandwidth



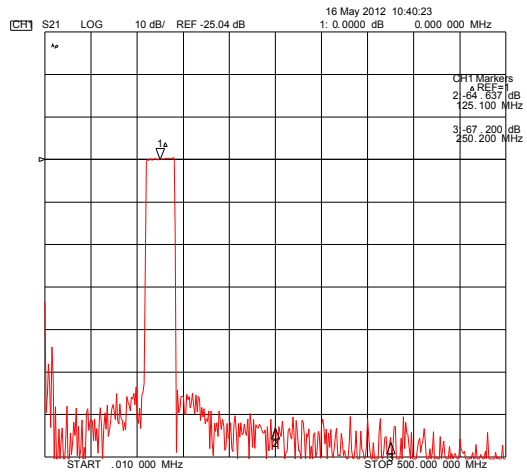
3dB Bandwidth & Group Delay



50dB Bandwidth



Wide band Properties



SWR(S11 & S22)