125.0 MHz SAW Filter
Part Number 251933B

1. Features

- Typical 1dB bandwidth of 18.9 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

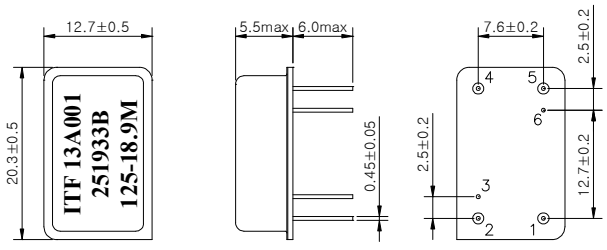
2. Electrical Specifications

Source and Load Impedance = 50Ω

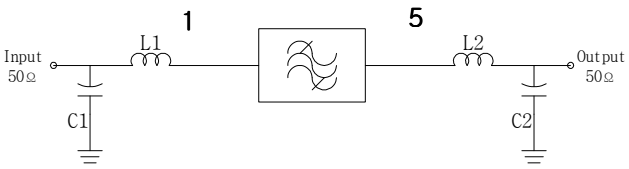
Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	124.87	125.0	125.13
Insertion Loss	dB	-	23.7	25.5
1dB Bandwidth	MHz	18.80	18.94	-
3dB Bandwidth	MHz	-	19.24	-
45dB Bandwidth	MHz	-	20.56	20.65
Amplitude Ripple (Fo±9.22MHz)	dB	-	0.55	1.0
Group Delay Variation (Fo±9.22MHz)	nsec	-	45	100
Absolute Delay	usec	-	2.26	2.28
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/℃	-	-72	-
Substrate Material	-		128-LN	

* Input POWER : 10dBm

D2012 Package Dimension



Matching Schematic



L1 = 39nH, L2 = 47nH, C1 = 36pF, C2 = 30pF

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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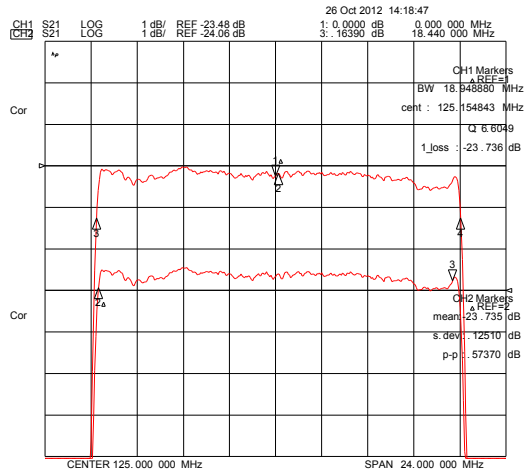
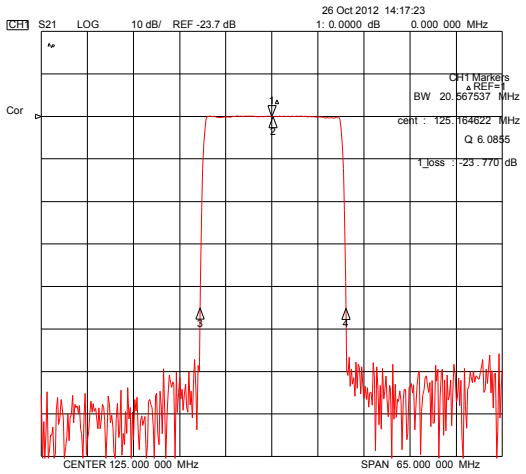
Rev 1.0

3. Typical Performance (at +25℃)

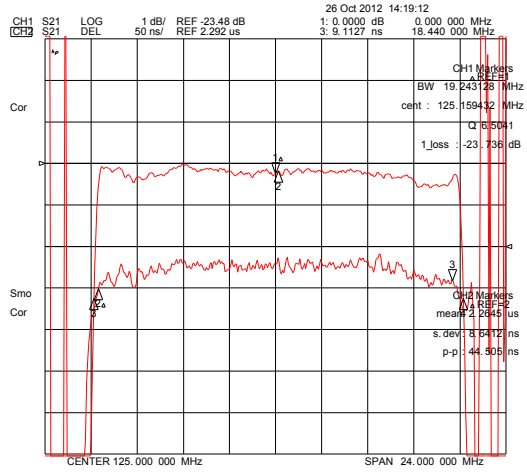
1dB Bandwidth & Ripple



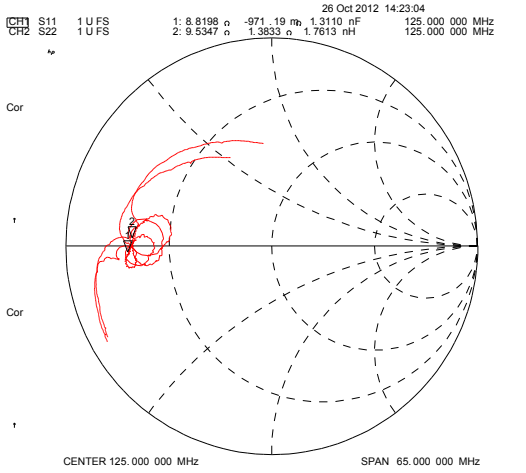
45dB Bandwidth



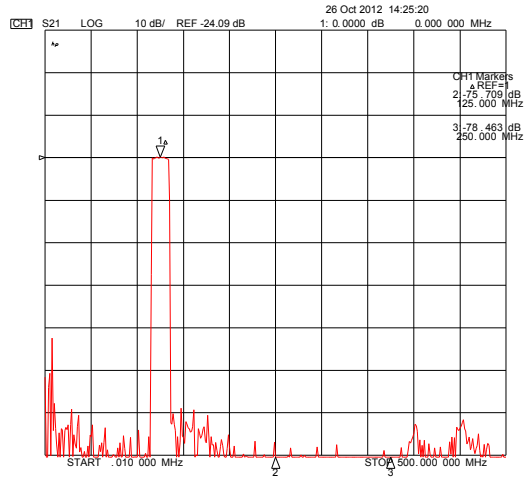
3dB Bandwidth & Group Delay



Smith Chart(S11 & S22)



Wideband Properties



SWR(S11 & S22)