125.0 MHz SAW Filter
Part Number 251016B

1. Features

- Typical 1dB bandwidth of 10.4 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

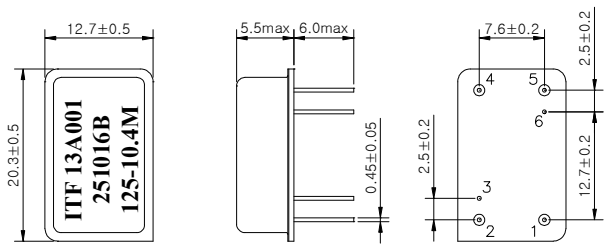
2. Electrical Specifications

Source and Load Impedance = 50Ω

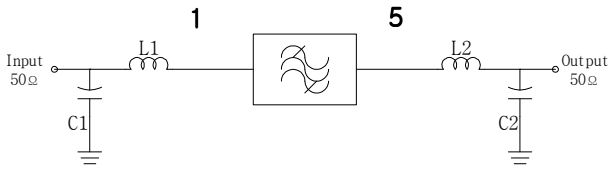
Operating Temperature : -30℃ ~ +85℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	125.0	-
Insertion Loss	dB	-	21.5	23.0
1dB Bandwidth	MHz	10.25	10.43	-
3dB Bandwidth	MHz	-	10.80	-
40dB Bandwidth	MHz	-	12.20	12.35
Amplitude Ripple (Fo±4.5MHz)	dB	-	0.6	1.2
Group Delay Variation (Fo±4.5MHz)	nsec	-	80	160
Absolute Delay	usec	-	2.21	2.25
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	**ppm/℃**	-	-72	-

Room Temperature : +25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	21.5	23.0
Amplitude Ripple (Fo±5.0 MHz)	dB	-	0.6	1.2
Group Delay Variation (Fo±5.0 MHz)	nsec	-	80	160

D2012 Package Dimension



Matching Schematic



L1 = L2 = 22nH, C1 = 33pF, C2 = 36pF

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

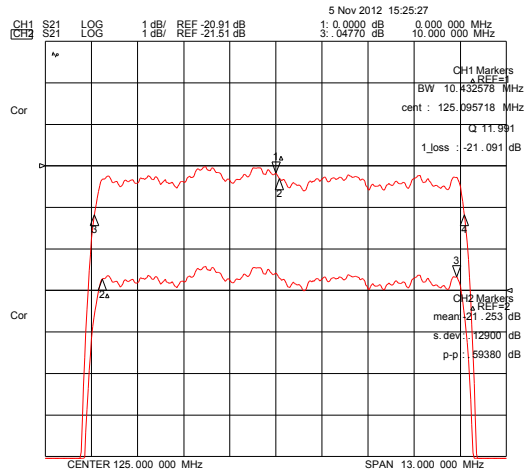
Tel: 82-32-621-1213
Fax: 82-32-621-1218

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

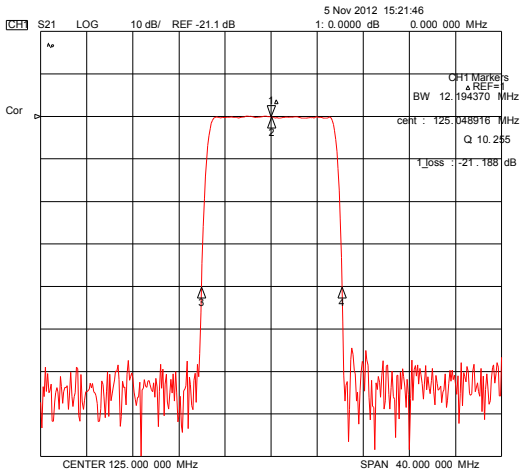
2013. 03. 25
Rev 1.0

3. Typical Performance (at +25℃)

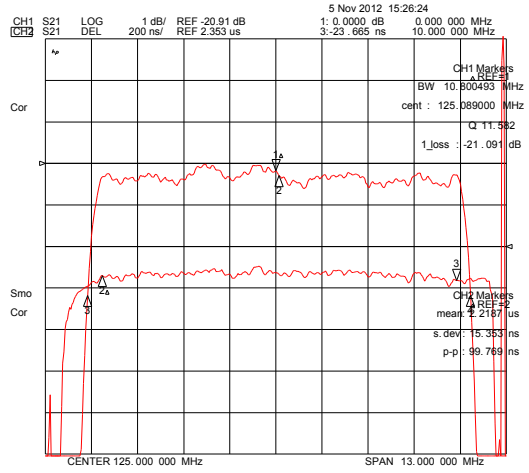
1dB Bandwidth & Ripple



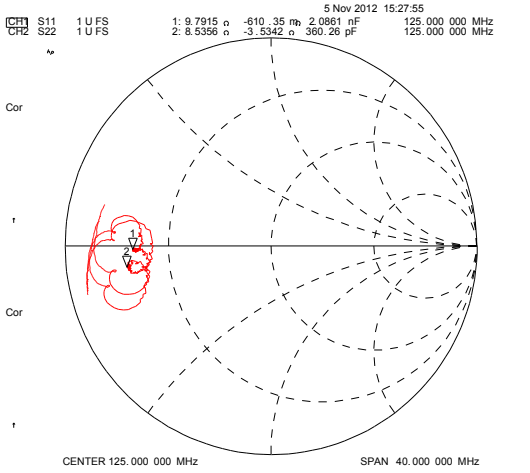
40dB Bandwidth



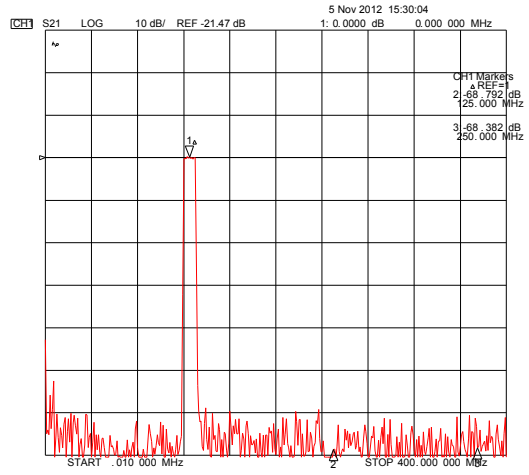
3dB Bandwidth & Group Delay



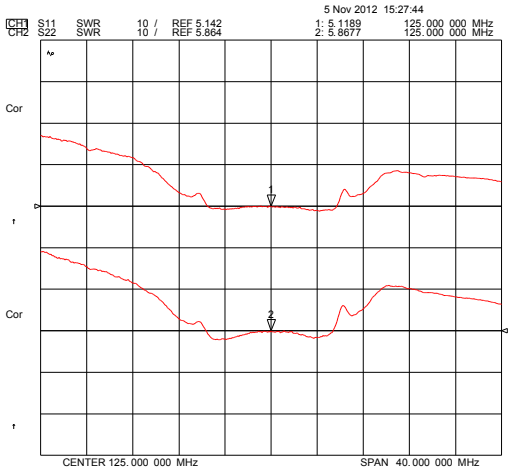
Smith Chart(S11 & S22)



Wideband Properties



SWR(S11 & S22)



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