284.9 MHz SAW Filter
Project name 262903B

1. Features

- Typical 1dB bandwidth of 9.2 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

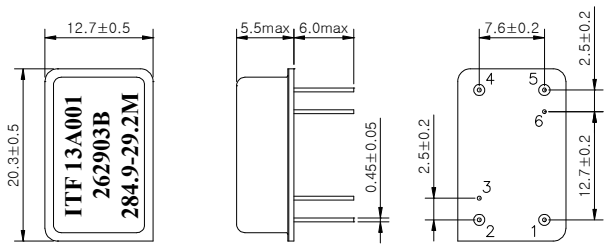
Source and Load Impedance = 50Ω

Operating Temperature : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	284.9	-
Insertion Loss	dB	-	31.0	33.0
1dB Bandwidth	MHz	29.10	29.25	-
3dB Bandwidth	MHz	-	29.53	-
40dB Bandwidth	MHz	-	30.77	30.95
Amplitude Ripple (fo ± 14.22 MHz)	dB	-	0.60	1.2
Group Delay Variation (fo ± 14.22 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.86	-
Ultimate Rejection	dB	50	53	-
Out of Band Gain Edge±1.16MHz		20	30	-
Maximum input Power	dBm	-	-	10
Temperature Coefficient of Frequency	ppm/℃	-	-18	-

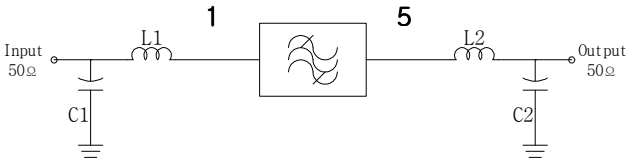
Edge : Fc±14.22MHz

Room Temperature : +25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	31.0	33.0
Amplitude Ripple (fo ± 14.40 MHz)	dB	-	0.60	1.2
Group Delay Variation (fo ± 14.40 MHz)	nsec	-	50	100

D2012 Package Dimension



Matching Schematic



L1 = L2 = 10nH, C1 = C2 = 33pF

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

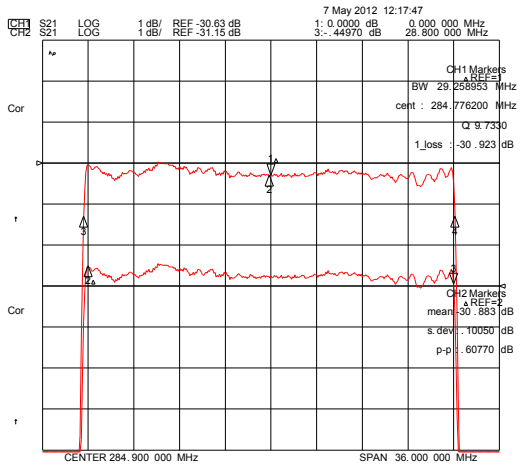
Tel: 82-32-621-1213
Fax: 82-32-621-1218

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

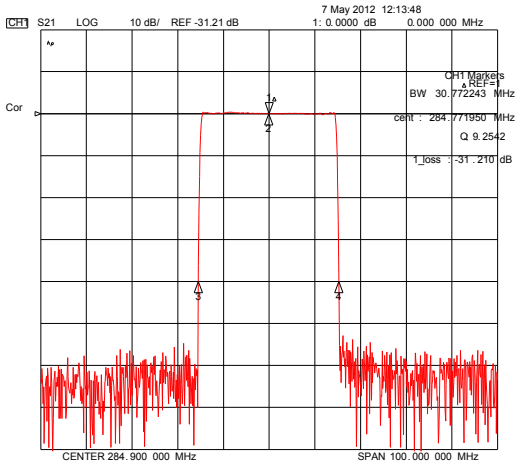
2013. 03. 25
Rev 1.0

3. Typical Performance (at +25℃)

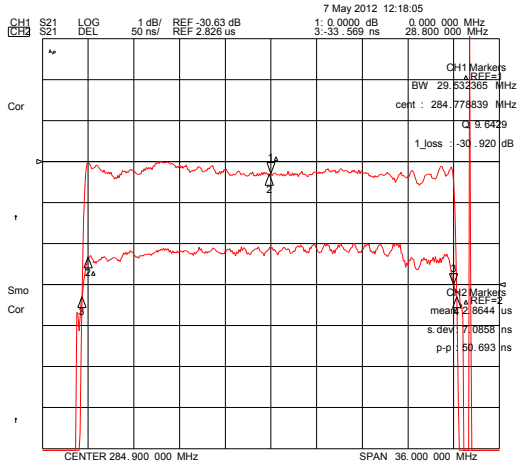
1dB Bandwidth & Ripple



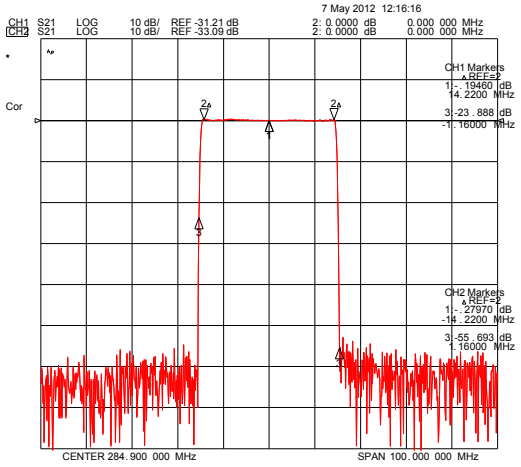
40dB Bandwidth



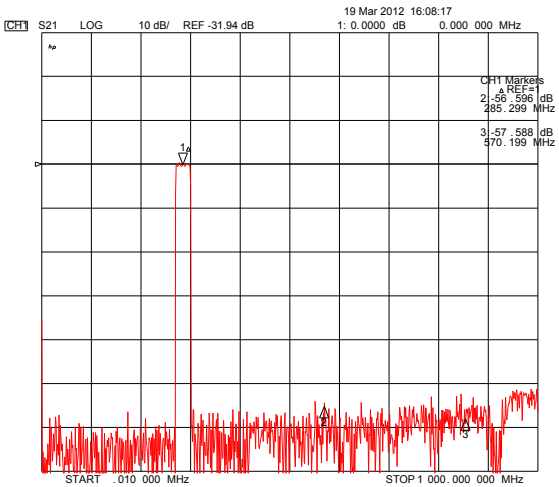
3dB Bandwidth & Group Delay



Out of band gain



Wideband Properties



SWR(S11 & S22)