255.0 MHz SAW Filter
Project name 262907B

1. Features

- Typical 1dB bandwidth of 29.4 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

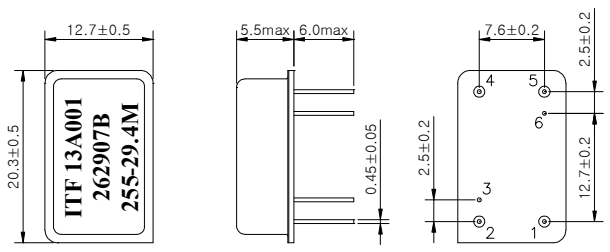
2. Electrical Specifications

Source and Load Impedance = 50Ω

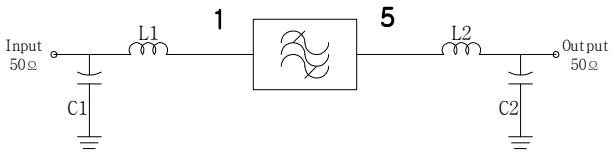
Operating Temperature : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	255.0	-
Insertion Loss	dB	-	31.0	32.5
1dB Bandwidth	MHz	29.30	29.45	-
3dB Bandwidth	MHz	-	29.77	-
40dB Bandwidth	MHz	-	31.18	31.30
Amplitude Ripple (fo ± 14.22 MHz)	dB	-	0.5	1.2
Group Delay Variation (fo ± 14.22 MHz)	nsec	-	35	70
Absolute Delay	usec	-	2.68	-
Ultimate Rejection	dB	50	53	-
Maximum input Power	dBm	-	-	10
Temperature Coefficient of Frequency	ppm/℃	-	-18	-

Room Temperature : + 25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	31.0	32.5
Amplitude Ripple (fo ± 14.38 MHz)	dB	-	0.5	1.2
Group Delay Variation (fo ± 14.38 MHz)	nsec	-	35	70

D2012 Package Dimension



Matching Schematic



L1 = L2 = 18nH, C1 = 27pF, C2 = 22pF

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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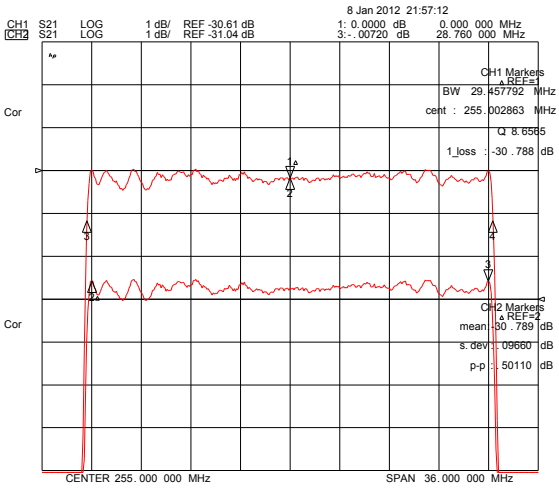
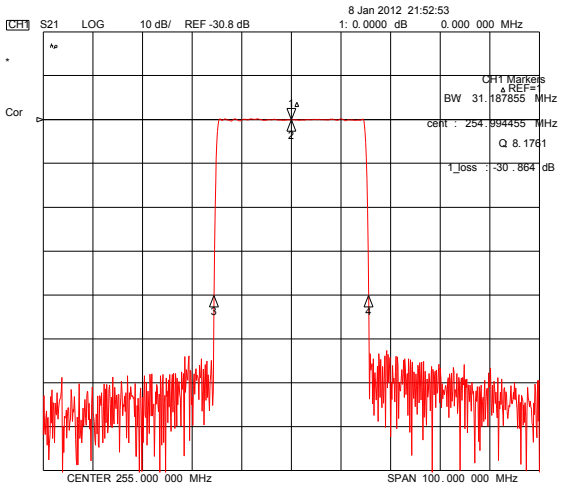
Rev 1.0

3. Typical Performance (at +25℃)

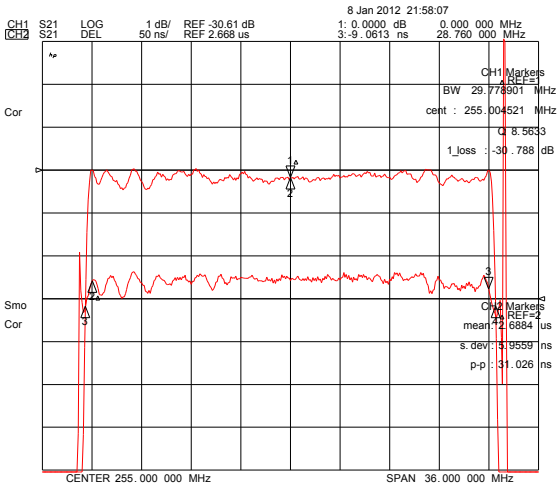
1dB Bandwidth & Ripple(Fo ± 14.38 MHz)



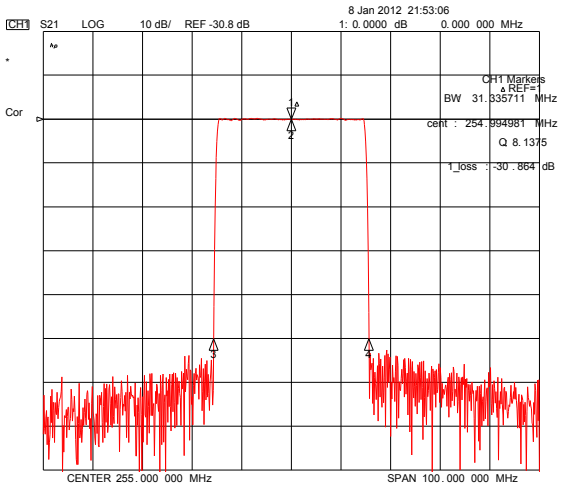
40dB Bandwidth



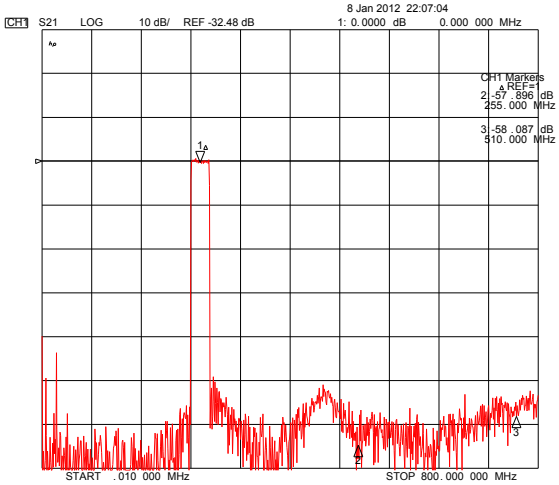
3dB Bandwidth & Group Delay(Fo ± 14.38 MHz)



50dB Bandwidth



Wide band Properties



SWR(S11 & S22)