75.1 MHz SAW Filter

Part Number 233007B

1. Features

- Typical 1dB bandwidth of 29.7 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

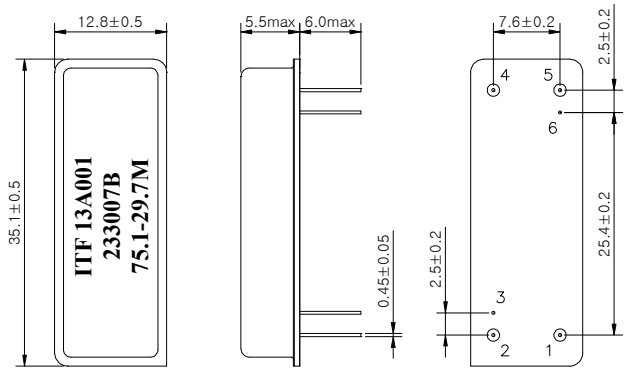
Source and Load Impedance = 50Ω

Operating Temperature : -30℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	75.1	-
Insertion Loss	dB	-	27.0	28.5
1dB Bandwidth	MHz	29.5	29.75	-
3dB Bandwidth	MHz	-	30.1	-
40dB Bandwidth	MHz	-	31.55	31.8
Amplitude Ripple (fo ± 14.22 MHz)	dB	-	0.6	1.5
Group Delay Variation (fo ± 14.22 MHz)	nsec	-	30	70
Absolute Delay	usec	-	1.95	-
Ultimate Rejection	dB	48	55	-
Temperature Coefficient of Frequency	ppm/℃	-	-72	-

Room Temperature : +25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	27.0	28.5
Amplitude Ripple (fo ± 14.52 MHz)	dB	-	0.6	1.5
Group Delay Variation (fo ± 14.52 MHz)	nsec	-	30	70
Out of Band gain @BW Edge ± 1.56 MHz	dB	25	33	-

1. @BW Edge : 28.44MHz 2. Input POWER : +10dBm

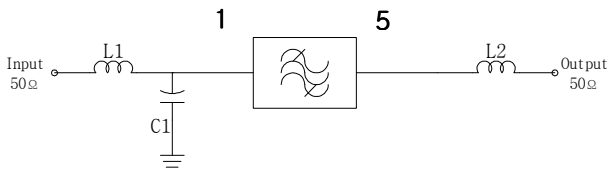
D3512 Package Dimension



Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated
Cap : Cu & Cr Alloy, Ni Plated
Termination : Kovar, Au Plated

Matching Schematic



L1 = 150nH, L2 =150nH, C1 = 4pF

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

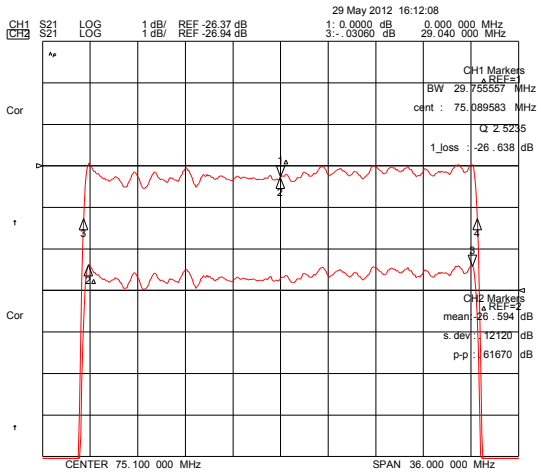
Tel: 82-32-621-1213
Fax: 82-32-621-1218

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

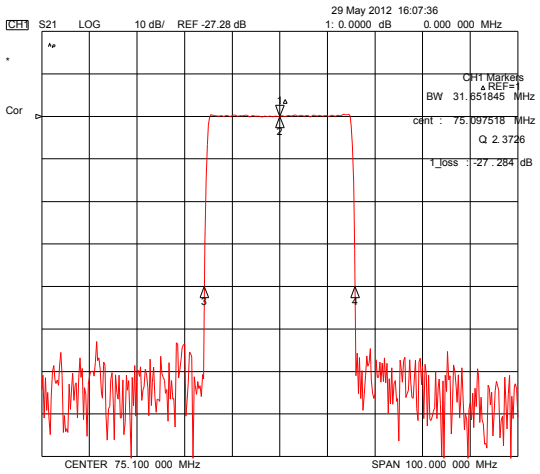
2013. 04. 01
Rev 1.0

3. Typical Performance (at +25℃)

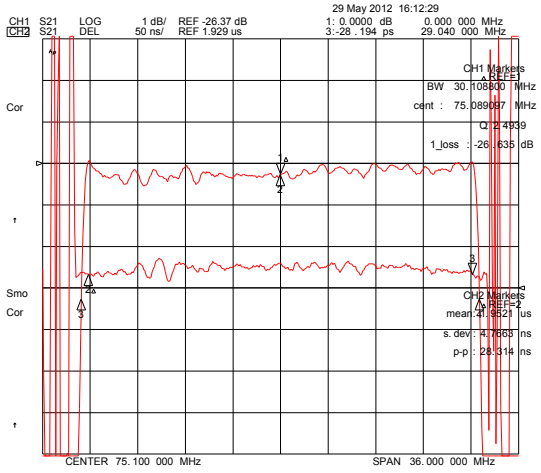
1dB Bandwidth & Ripple



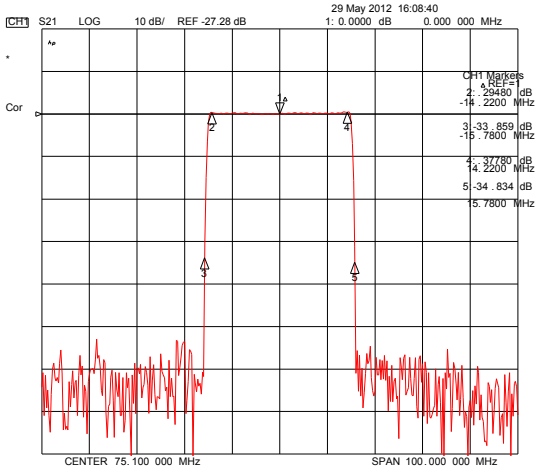
40dB Bandwidth



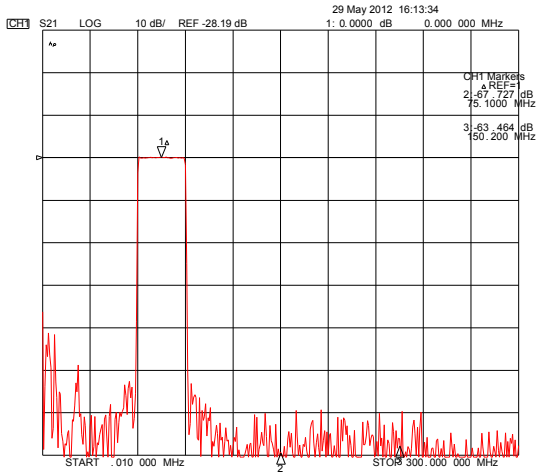
3dB Bandwidth & Group Delay



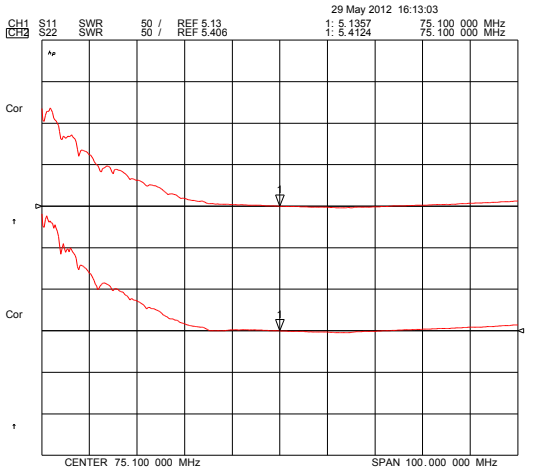
Out of Band gain



Wideband Properties



SWR(S11 & S22)



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