830.0 MHz SAW Filter

Part Number 261151B

1. Features

- Typical 1dB bandwidth of 10.7 MHz
- High attenuation
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

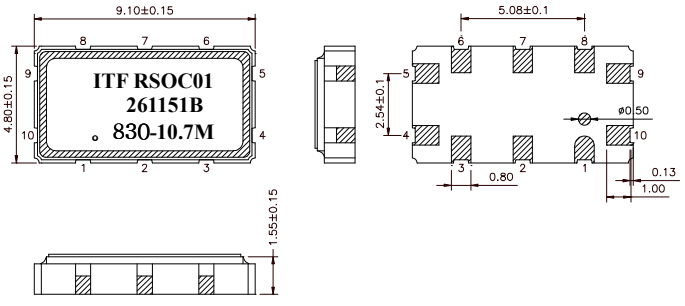
Tested by SGS Testing Korea

2. . Electrical Specifications

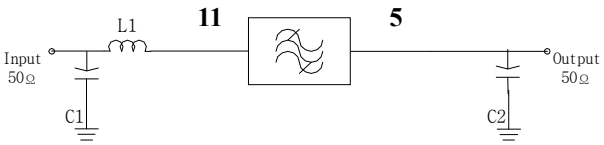
Source and Load Impedance = 50Ω

Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	829.5	830.0	830.5
Insertion Loss	dB	21.0	23.5	25.5
1dB Bandwidth	MHz	10.4	10.7	-
3dB Bandwidth	MHz	11.0	11.38	-
40dB Bandwidth	MHz	-	14.1	14.8
Amplitude Ripple (fo ± 5 MHz)	dB	-	0.7	1.3
Group Delay Variation (fo ± 5 MHz)	nsec	-	60	110
Absolute Delay	usec	-	1.33	1.5
Relative Attenuation fo ±7.5MHz	dB	40	48	-
Temperature Coefficient of Frequency	ppm/℃^{2}	-	-0.03	-

S1365 Package Dimension



Matching Network Configuration



L1 = 3.3nH

C1 = 7 pF, C2 = 11 pF

Pin Configuration			
Input	**11**	**Ground**	**6,12**
Output	**5**	**Others**	**Ground**

Dimensions shown are nominal in millimeters

Body : Al_2O_3
Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

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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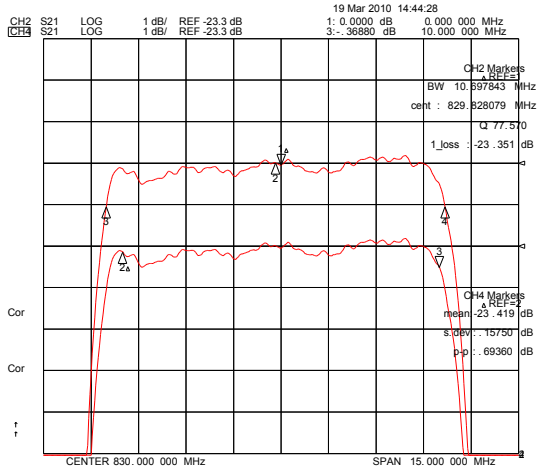
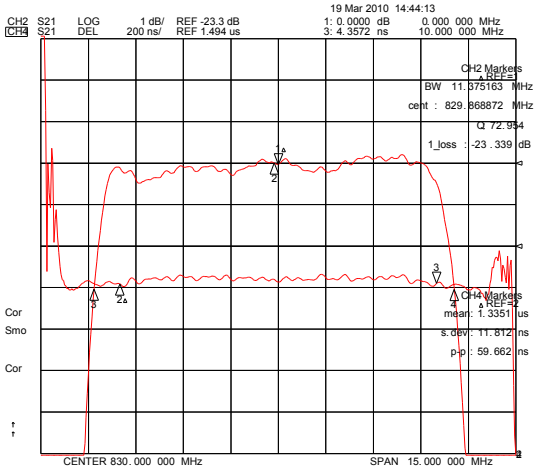
Rev 1.0

3. Typical Performance (at +25℃)

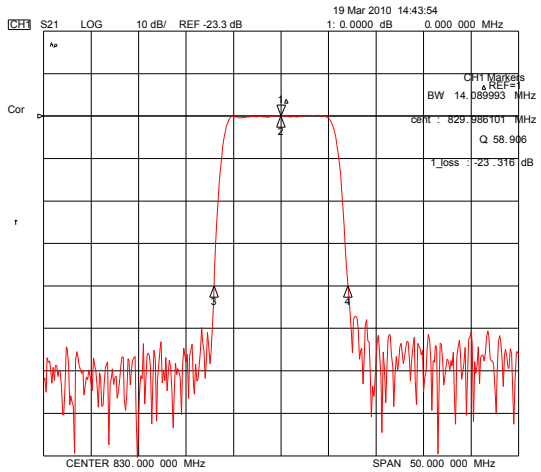
1dB Bandwidth & Ripple(fo ± 5 MHz)



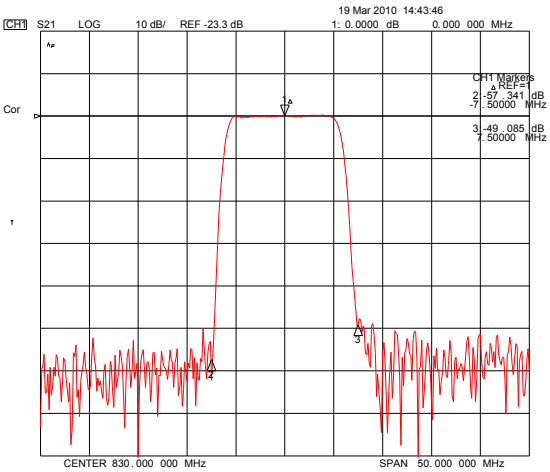
3dB Bandwidth & Group Delay(fo ± 5 MHz)



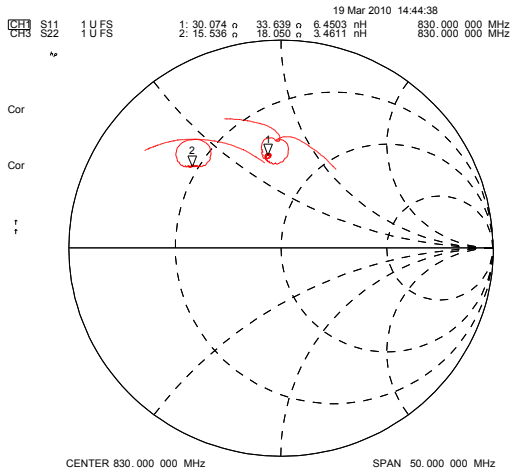
40dB Bandwidth



Wideband Properties



Smith Chart (S11 & S22)



SWR (S11 & S22)