836.5 MHz SAW Filter

Part Number T83651B

1. Features

- Typical 1dB bandwidth of 25.8 MHz
- High attenuation
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

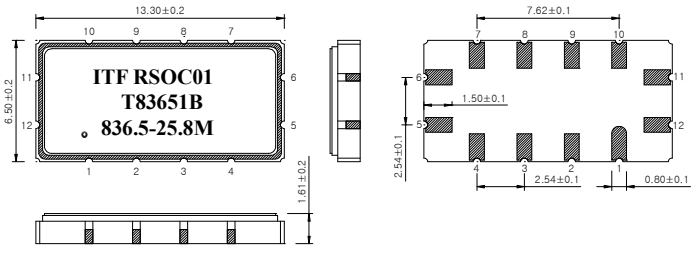
Tested by SGS Testing Korea

2. Electrical Specifications

Source and Load Impedance = 50Ω

Room Temperature : +25℃			Minimum	Typical	Maximum
Center Frequency (fo)		MHz	-	836.5	-
Insertion Loss		dB	-	26.5	29.0
1dB Bandwidth		MHz	25.4	25.8	-
3dB Bandwidth		MHz	-	26.65	-
35dB Bandwidth		MHz	-	29.55	29.9
Amplitude Ripple (fo ± 12.5 MHz)		dB	-	0.7	1.5
Group Delay Variation (fo ± 12.5 MHz)		nsec	-	55	120
Absolute Delay		usec	-	1.08	-
Out of band gain	Edge ± 2.0 MHz	dB	-	23	-
Temperature Coefficient of Frequency		ppm/℃^{2}	-0.03		

S1365 Package Dimension

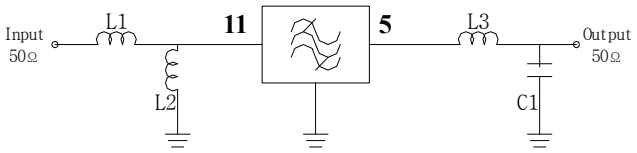


Dimensions shown are nominal in millimeters

Body : Al_2O_3
Lid : Kovar, Ni Plated

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

Matching Network Configuration



L1 = 10nH, L2 = 5.6nH, L3 = 5.6nH, C1 = 8pF

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

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102-901, Bucheon Technopark 364, Samjeong-Dong,
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Gyounggi-Do, Korea 421-809

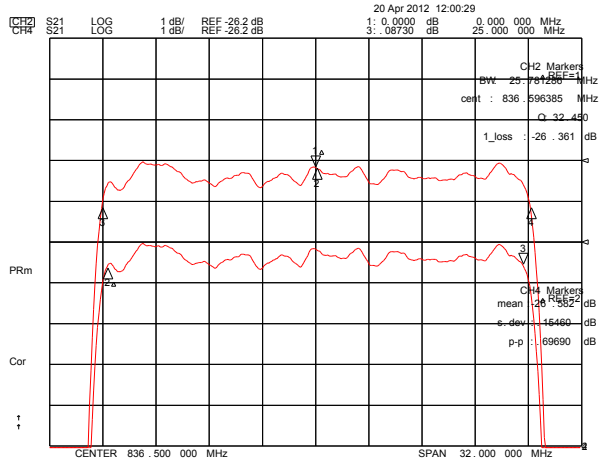
Tel: 82-32-621-1213
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sales@itf.co.kr

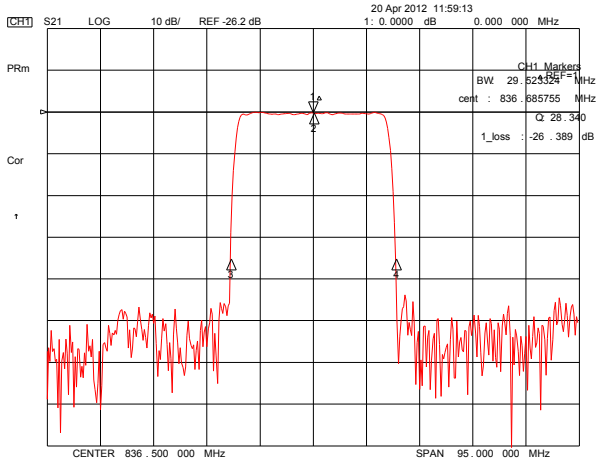
2013. 03. 29
Rev 1.0

3. Typical Performance (at +25℃)

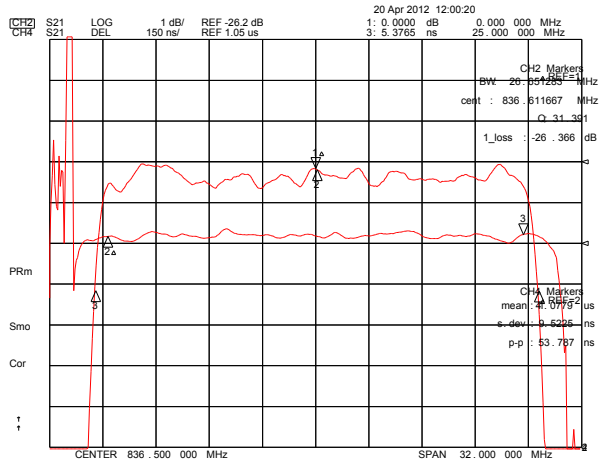
1dB Bandwidth & Ripple(Fo ± 12.5 MHz)



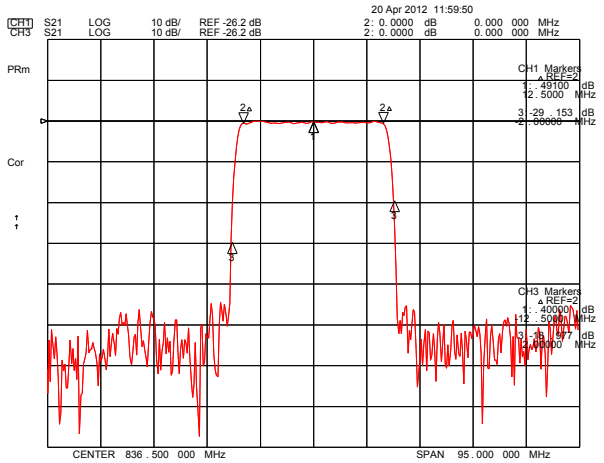
35dB Bandwidth



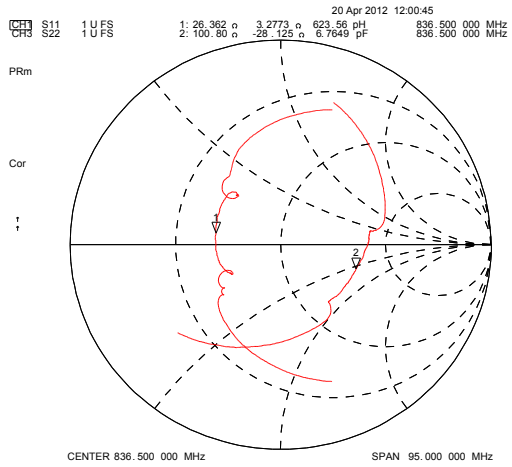
3dB Bandwidth & Group Delay(Fo ± 12.5 MHz)



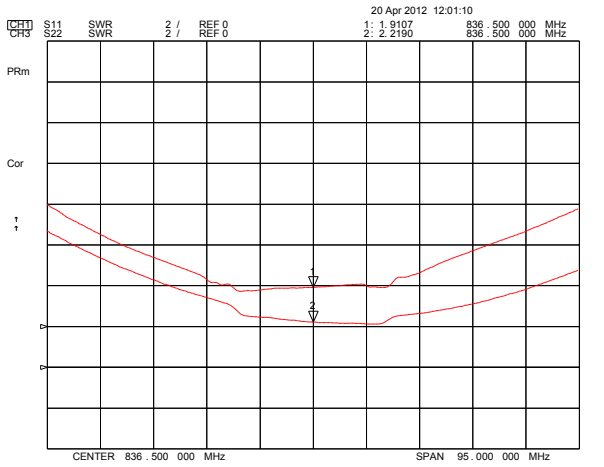
Out of Band Gain



Smith Chart(S11 & S22)



SWR(S11 & S22)



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