76.5 MHz SAW Filter
Part Number 231659B

1. Features

- Typical 1dB bandwidth of 15.4 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

Tested by SGS Testing Korea

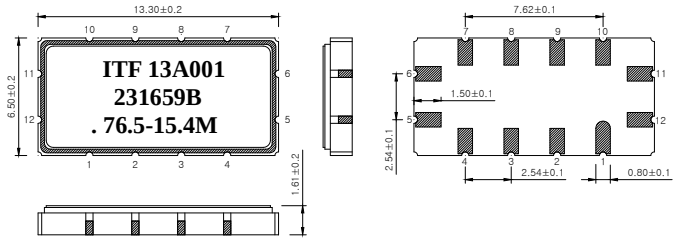
2. Electrical Specifications

Source and Load Impedance = 50Ω

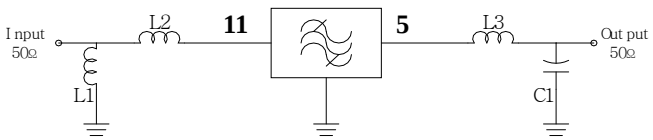
Operating Temperature : 0℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	76.5	-
Insertion Loss	dB	-	11.2	13.5
1dB Bandwidth	MHz	14.9	15.4	-
3dB Bandwidth	MHz	-	16.15	-
40dB Bandwidth	MHz	-	19.9	20.4
Amplitude Ripple (fo ± 6.82 MHz)	dB	-	0.4	1.0
Group Delay Variation (fo ± 6.82 MHz)	nsec	-	55	90
Absolute Delay	usec	-	0.98	1.0
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	**ppm/℃**	-	-86	-

Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	76.37	76.5	76.63
Insertion Loss	dB	-	11.2	13.0
Amplitude Ripple (fo ± 7.1 MHz)	dB	-	0.4	1.0
Group Delay Variation (fo ± 7.1 MHz)	nsec	-	55	90

S1365 Package Dimension



Matching Schematic



L1 = 330nH, L2 = 39nH, L3 = 100nH, C1 = 91pF

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

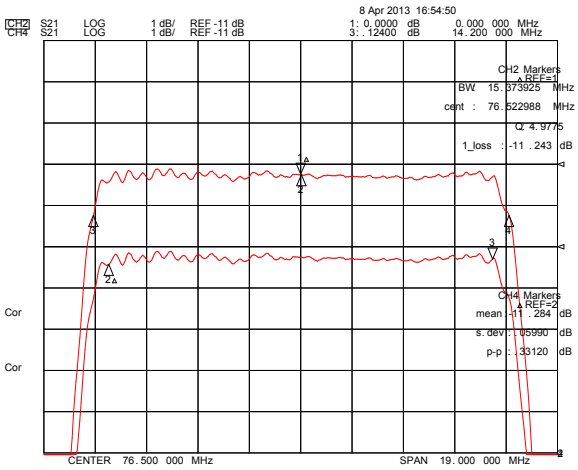
Tel: 82-32-621-1213
Fax: 82-32-621-1218

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

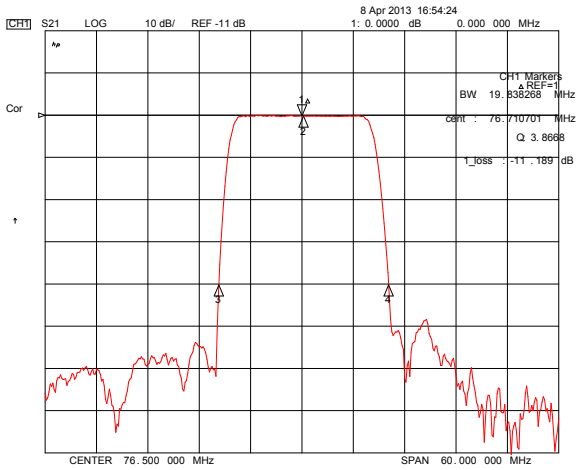
2013. 04. 08
Rev 1.0

3. Typical Performance (at +25℃)

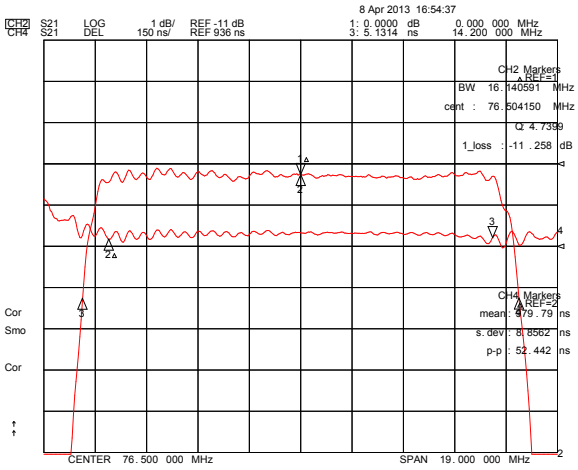
1dB Bandwidth & Ripple



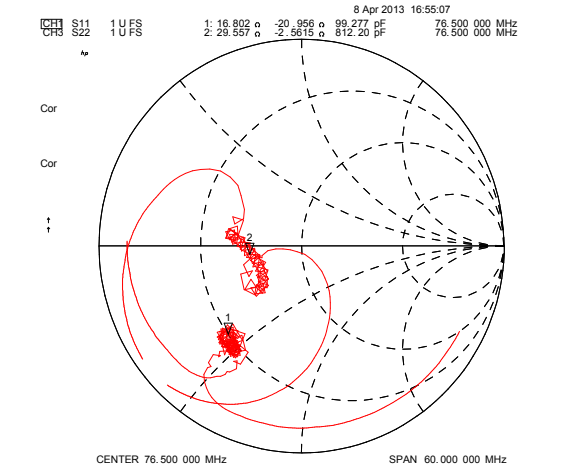
40dB Bandwidth



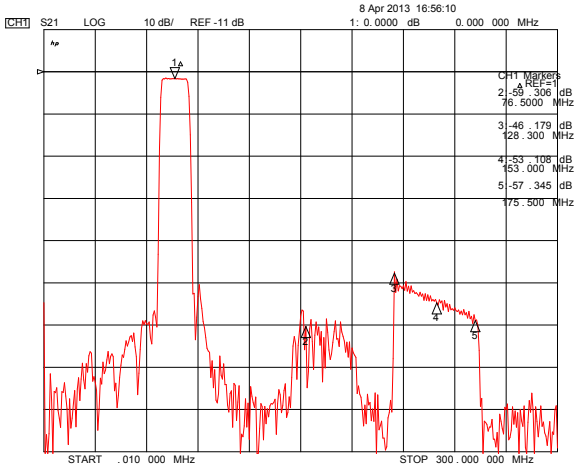
3dB Bandwidth & Group Delay



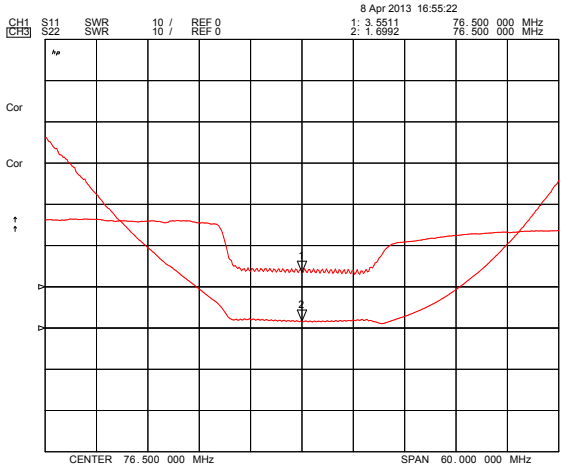
Smith Chart(S11 & S22)



Wide band 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