100.0 MHz SAW Filter
Part Number 250056B

1. Features

- Typical 1dB bandwidth of 0.31 MHz
- High attenuation
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

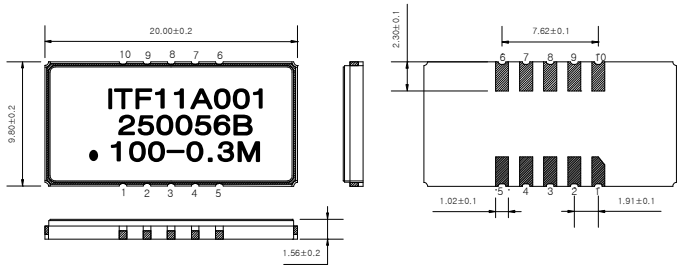
Tested by SGS Testing Korea

2. Electrical Specifications

Source and Load Impedance = 50Ω

Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	100.0	-
Insertion Loss	dB	-	14.8	16.5
1dB Bandwidth	MHz	0.2	0.31	-
3dB Bandwidth	MHz	-	0.5	-
40dB Bandwidth	MHz	-	1.45	1.6
Amplitude Ripple (fo ± 0.1 MHz)	dB	-	0.19	1.0
Group Delay Variation (fo ± 0.1 MHz)	nsec	-	397	700
Absolute Delay	usec	-	2.26	-
Ultimate Rejection	dB	50	58	-
Temperature Coefficient of Frequency	ppm/℃^{2}	-	-0.03	-

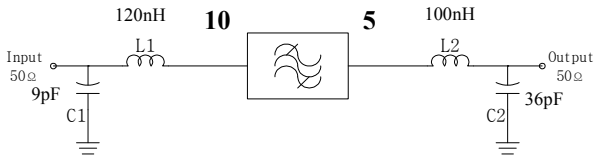
S2098 Package Dimension



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 Schematic



Pin Configuration			
Input	**10**	**Ground**	**1,6**
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

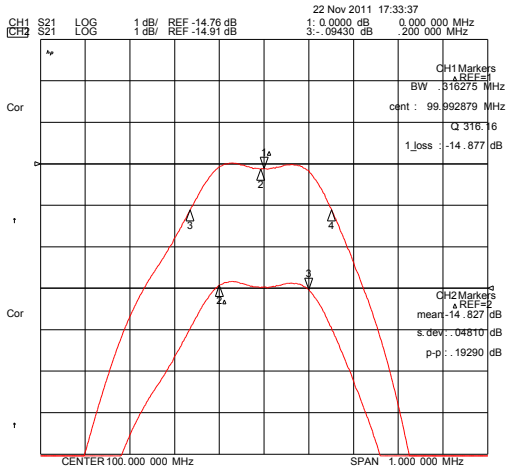
Tel: 82-32-621-1213
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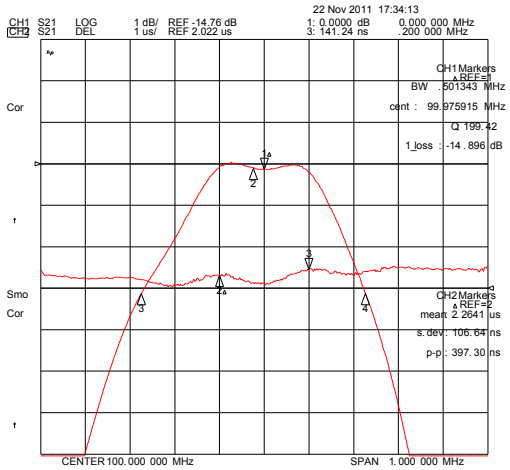
2012. 06. 12
Rev 1.0

3. Typical Performance (at +25℃)

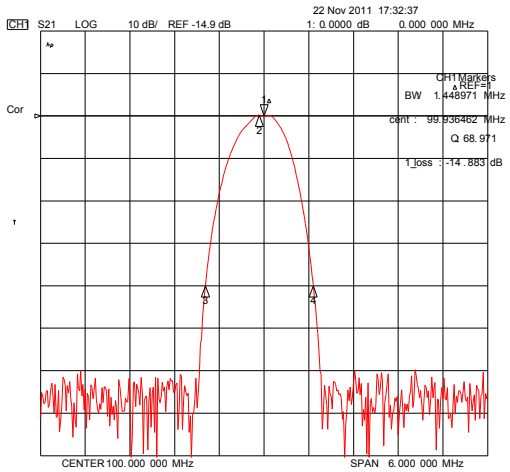
1dB Bandwidth & Ripple



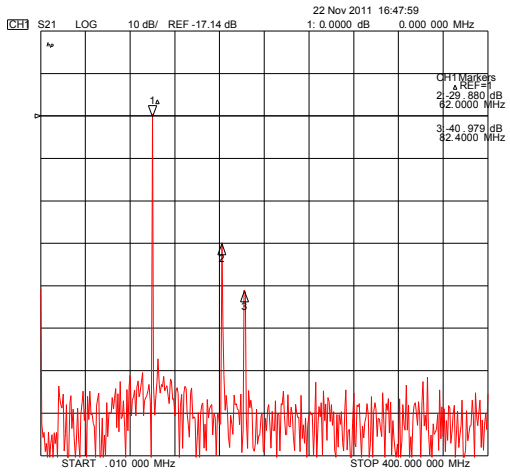
3dB Bandwidth & Group Delay



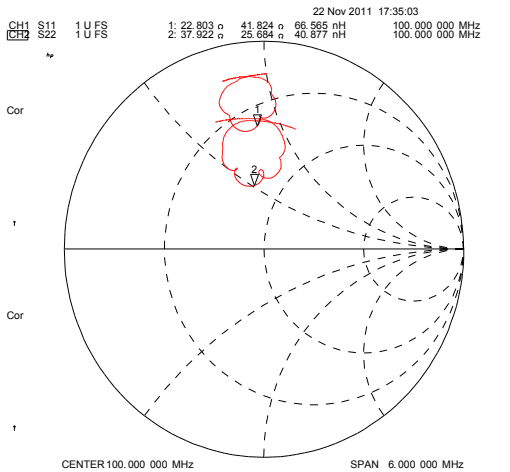
40dB Bandwidth



Wide band Properties



Smith Chart(S11 & S22)



SWR(S11 & S22)

