52.5 MHz SAW Filter
Part Number 212352B

1. Features

- Typical 1dB bandwidth of 21.85 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

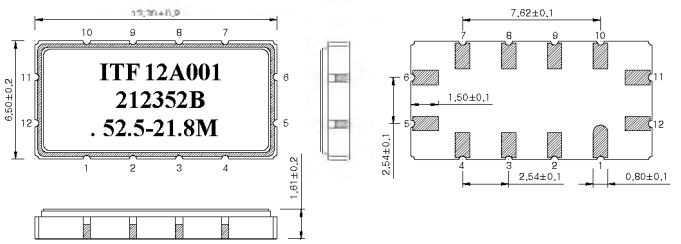
Tested by SGS Testing Korea

2. Electrical Specifications

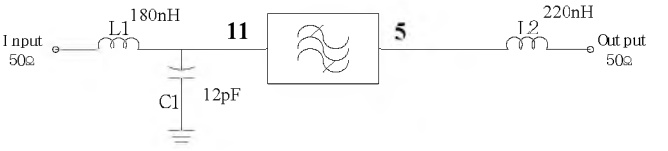
Source and Load Impedance = 50Ω

Operating Temperature : 0℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	52.5	-
Insertion Loss	dB	-	16.1	18.5
1dB Bandwidth	MHz	21.4	21.85	-
3dB Bandwidth	MHz	-	23.2	-
35dB Bandwidth	MHz	-	28.6	29.0
Amplitude Ripple (fo ± 9.75 MHz)	dB	-	0.4	1.0
Group Delay Variation (fo ± 9.75 MHz)	nsec	-	30	60
Absolute Delay	usec	-	0.76	-
Ultimate Rejection	dB	35	40	-
Temperature Coefficient of Frequency	ppm/℃	-	-72	-
Room Temperature : +25℃		**Minimum**	**Typical**	**Maximum**
Insertion Loss	dB	-	16.1	18.0
Amplitude Ripple (fo ± 9.91 MHz)	dB	-	0.4	1.0
Group Delay Variation (fo ± 9.91 MHz)	nsec	-	30	60
Relative Attenuation				
Edge(42.75 MHz) – 5.0 MHz	dB	25	55	-
Edge(62.25 MHz) + 5.0 MHz	dB	25	33	-
120.0 MHz ~ 195.0 MHz	dB	25	30	-

S1365 Package Dimension



Matching Schematic



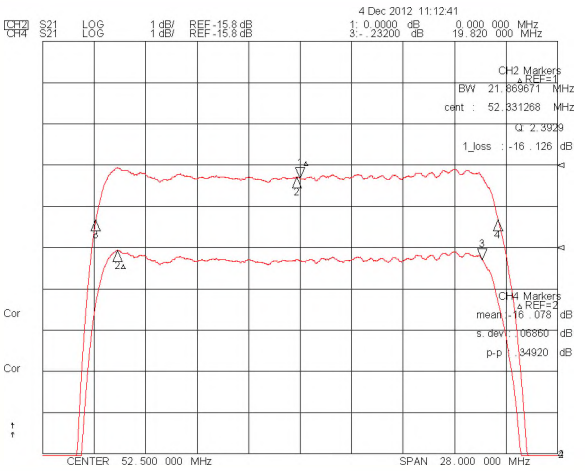
Dimensions shown are nominal in millimeters

Body : Al_2O_3
Lid : Kovar, Ni Plated
Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

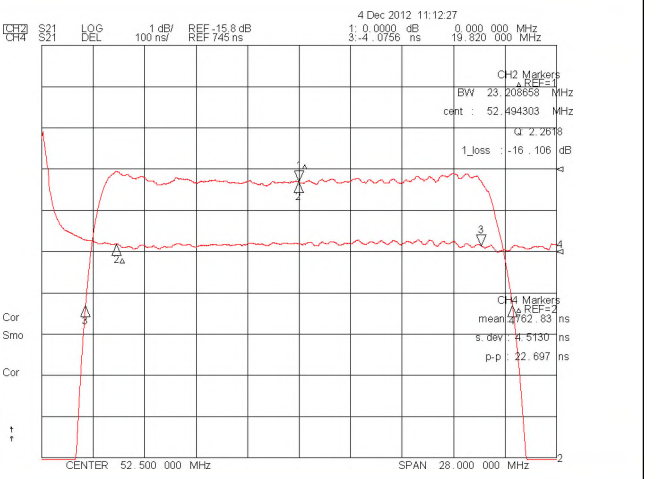
Pin Configuration			
Input	**11**	**Ground**	**6, 12**
Output	**5**	**Others**	**Ground**

3. Typical Performance (at +25℃)

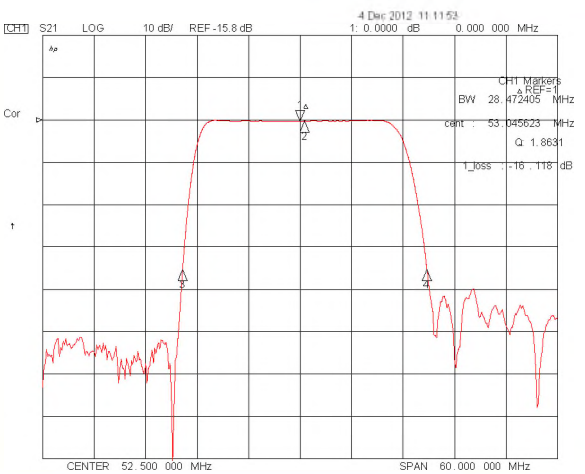
1dB Bandwidth & Ripple



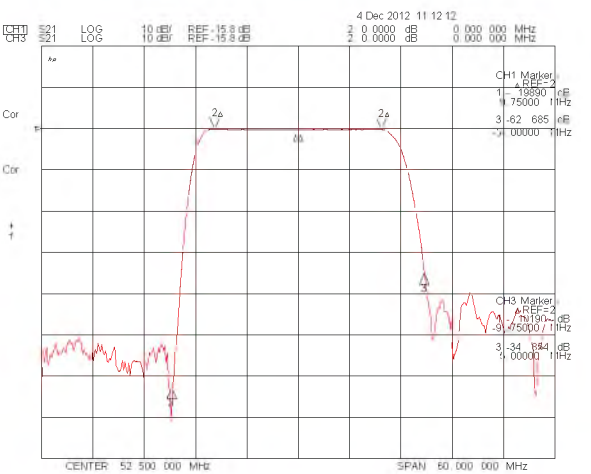
3dB Bandwidth & Group Delay



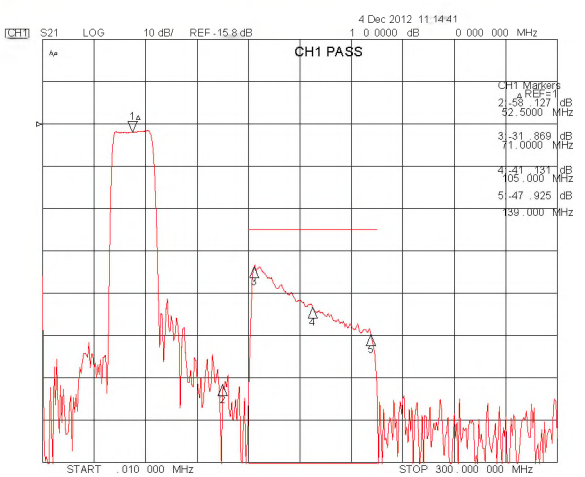
35dB Bandwidth



Relative Attenuation(Edge ± 5.0 MHz)



Wide band Properties



SWR(S11 & S22)