

- 62.5MHz IF SAW Filter / 19.5 Hz Bandwidth
- Revision 0: 30. Jan. 2008

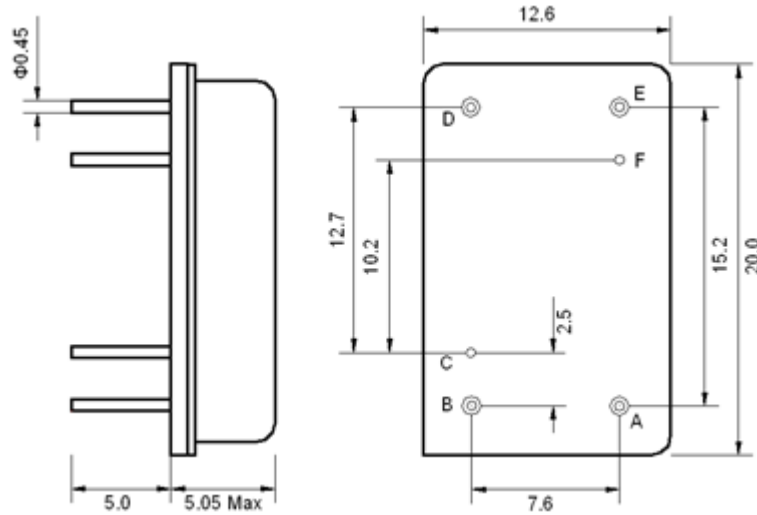
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	D			
Length x Width	mm <sup>2</sup>	-	20.0 x 12.6	-
Height	mm	-	-	5.05

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	22.3	24.5
Amplitude Ripple Variation within Fo ±9.22 MHz	dB <sub>p-p</sub>	-	0.35	1.0
Group Delay Variation within Fo ±9.22 MHz	nsec	-	40	70
Absolute Delay at Fo	µsec	-	1.84	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	-	19.5	-
Bandwidth at -3.0 dB	MHz	19.9	20.0	-
Bandwidth at -40.0 dB	MHz	-	21.93	22.1
<b>Attenuation Rejection</b>				
Lower Sidelobe	dB	50	55	
Upper Sidelobe	dB	50	55	

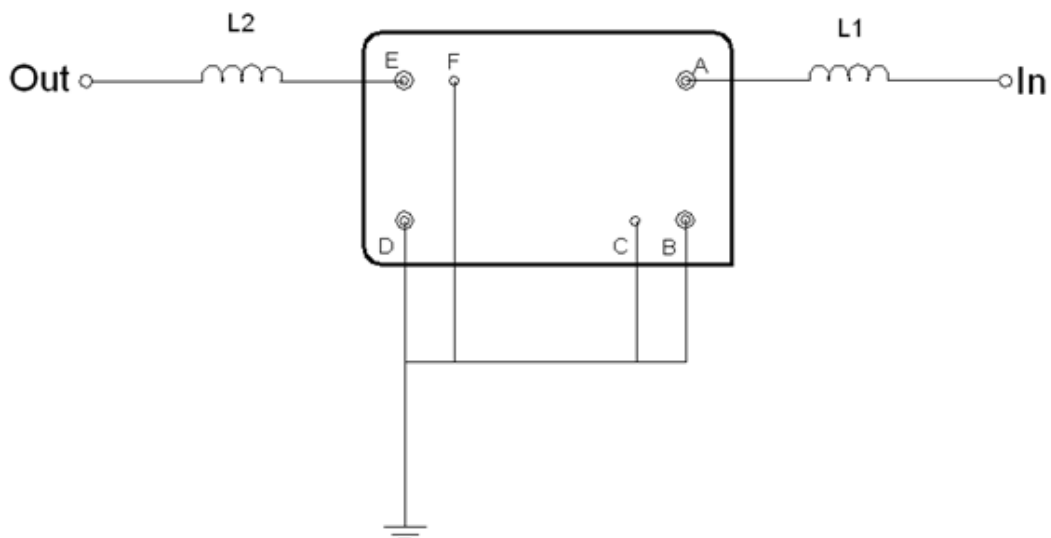
**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

## Package Dimensions



Pin Description	
B, C, D, F	Ground
A	Input
E	Output

## Testing Environment

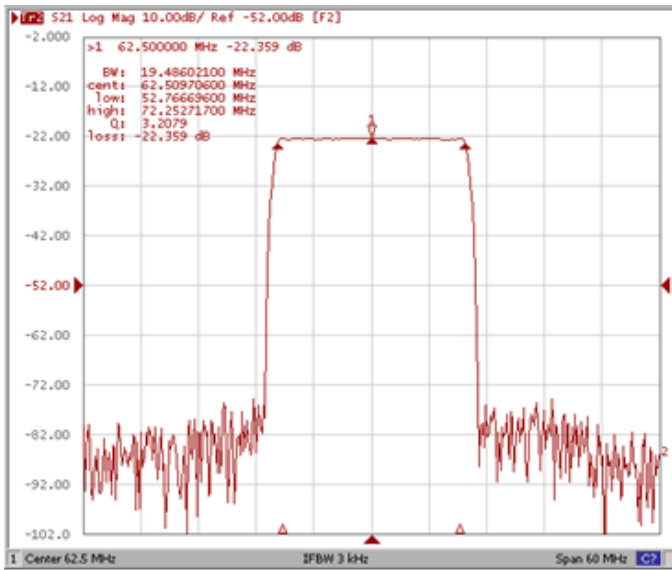


Test Fixture & Values	
Input	L1 = 270 nH
Output	L2 = 220 nH
Source/Load Impedance	50 $\Omega$

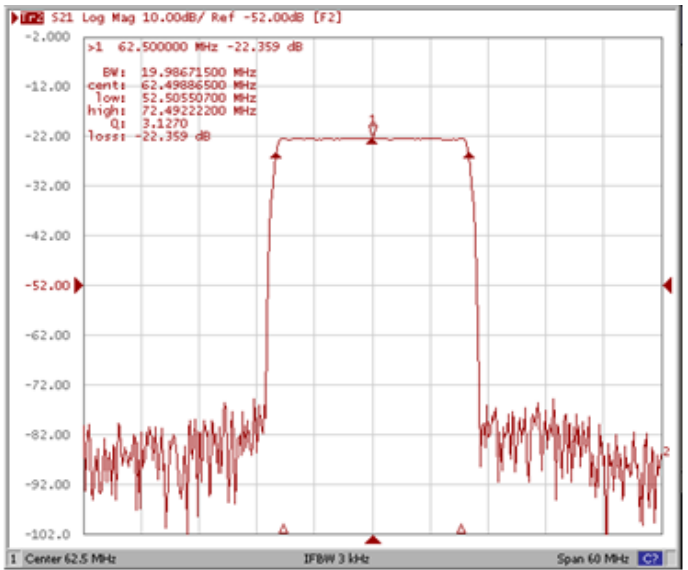
## Frequency Characteristics

### Frequency Response

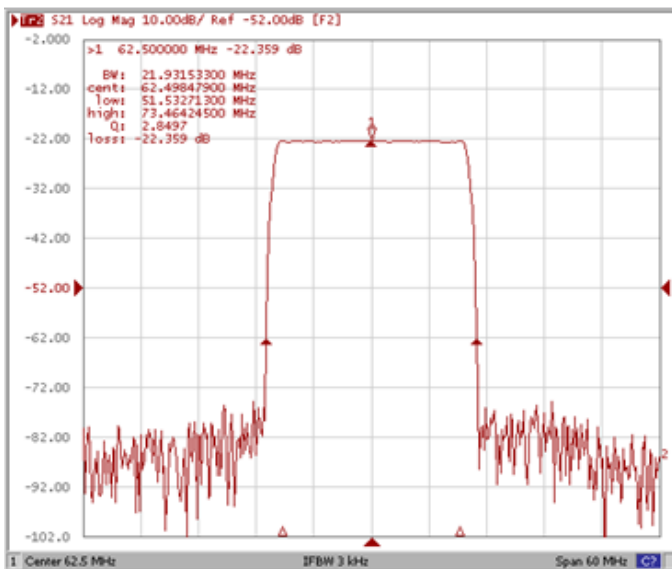
**Bandwidth at -1.0 dB**



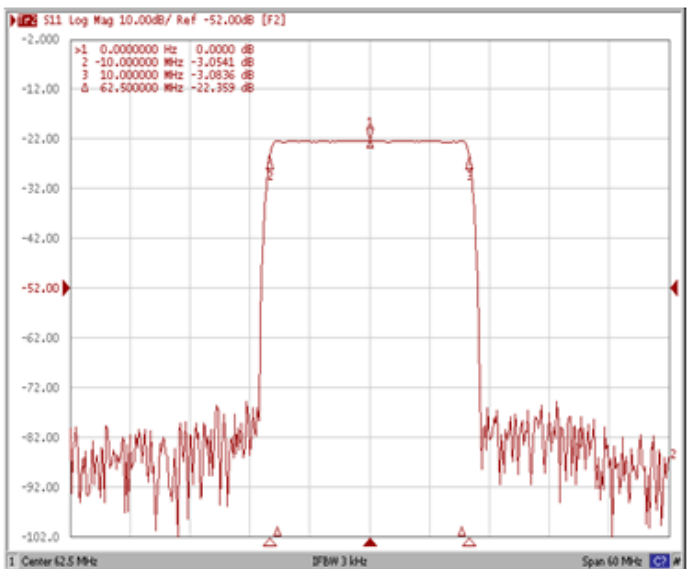
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**

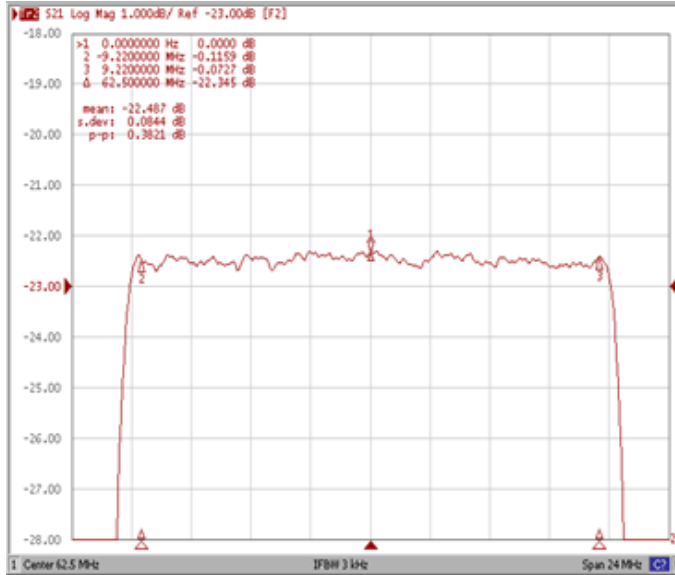


**Attenuation Fo ±10.0 MHz**

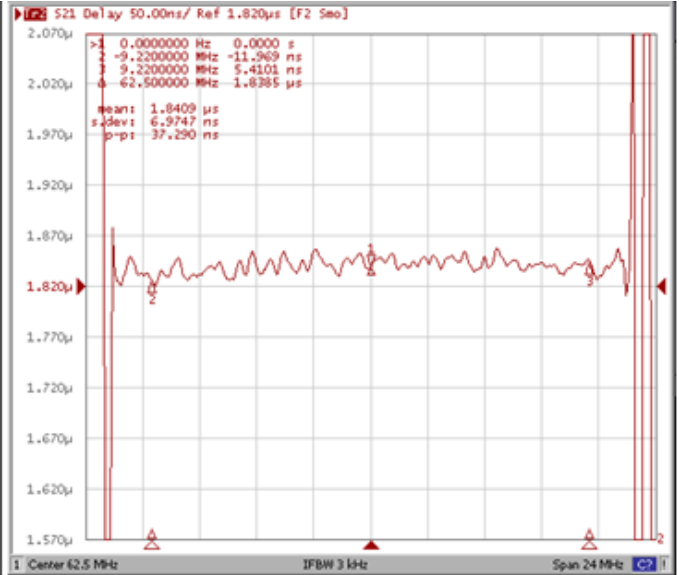


## Frequency Response

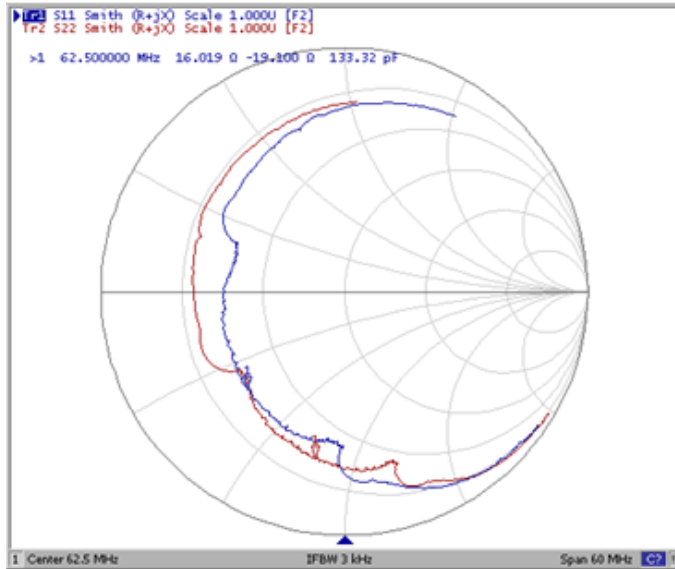
**Ripple Variation Fo±9.22MHz**



**Group Delay Variation Fo±9.22MHz**



**Smith Chart**



**SWR**

