

- 62.50 MHz IF SAW Filter / 19.4 MHz Bandwidth
- Revision 0: 30. Jan. 2008

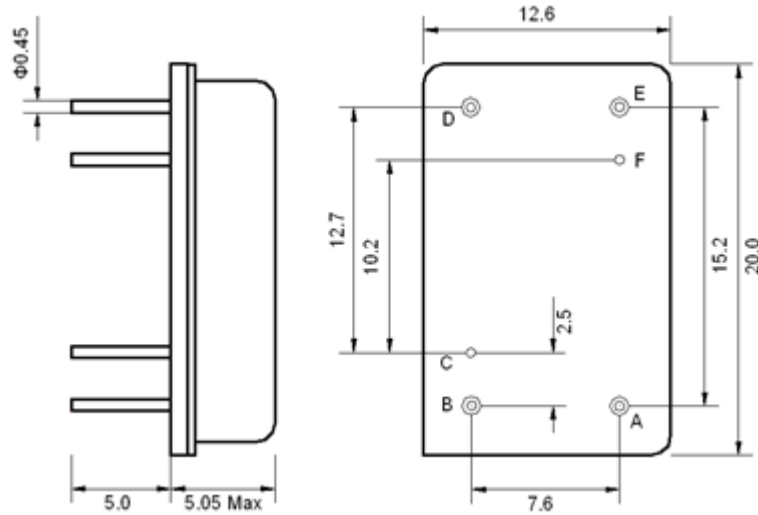
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D			
Length x Width	mm ²	-	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	-	21.4	23.0
Amplitude Ripple Variation within Fo ±9.22 MHz	dB _{p-p}	-	0.4	1.0
Group Delay Variation within Fo ±9.22 MHz	nsec	-	35	70
Absolute Delay at Fo	μsec	-	1.64	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	-	19.4	-
Bandwidth at -3.0 dB	MHz	19.8	19.94	-
Bandwidth at -40.0 dB	MHz	-	22.09	22.15
Attenuation Rejection				
Lower Sidelobe	dB	45	50	-
Upper Sidelobe	dB	45	48	-

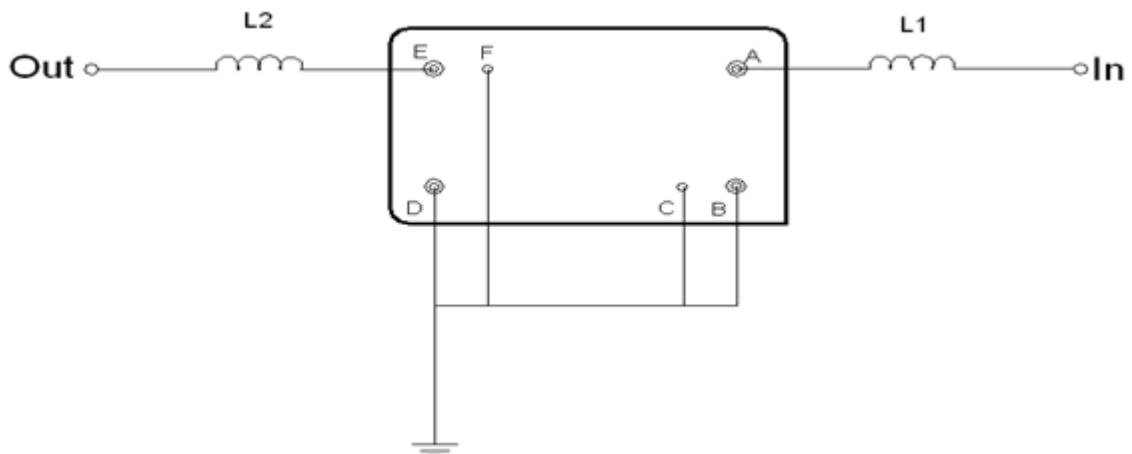
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



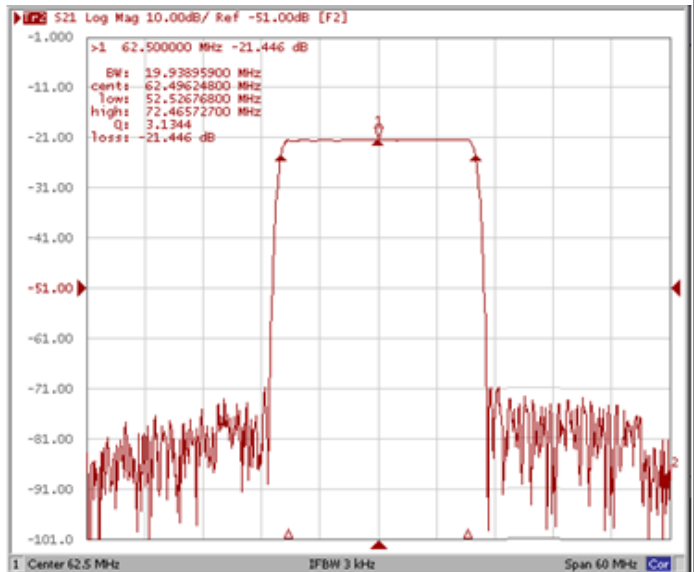
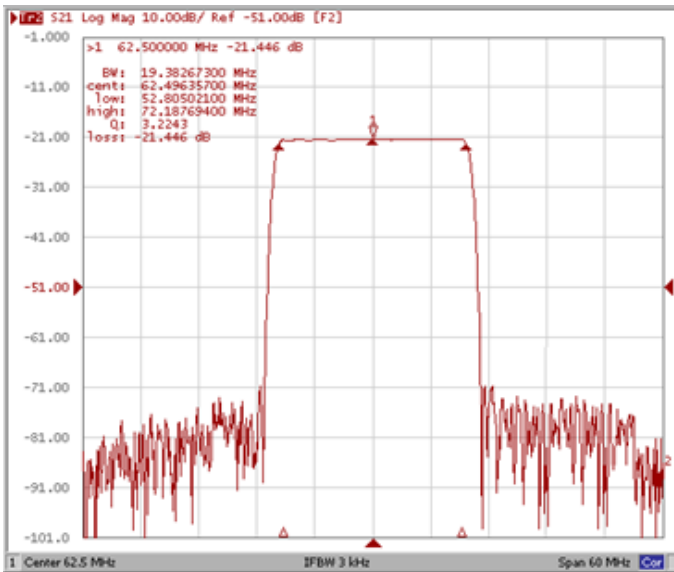
Test Fixture & Values	
Input	L1 = 220 nH
Output	L2 = 220 nH
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

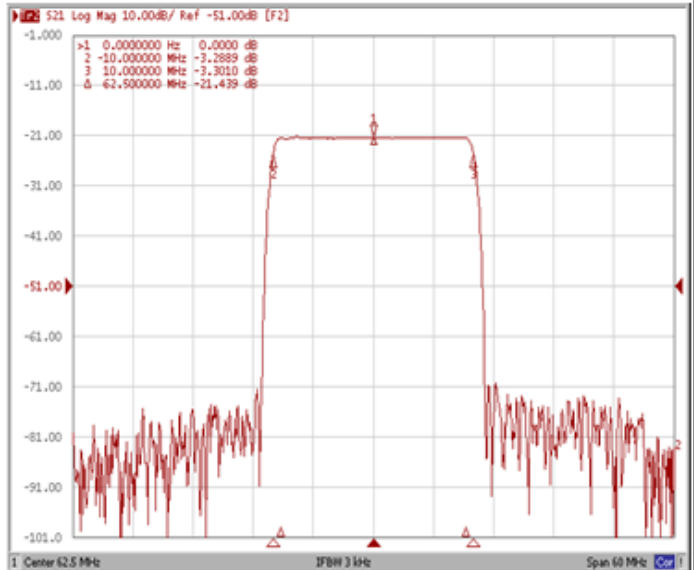
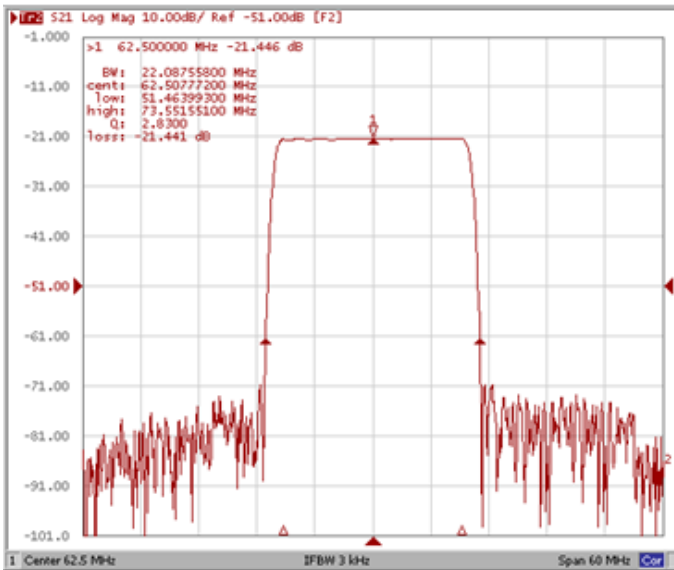
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



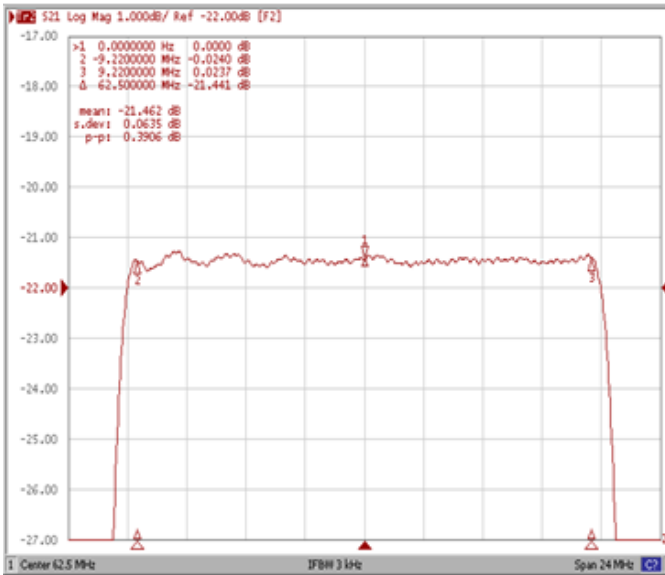
Bandwidth at -40.0 dB

Attenuation Fo ±10.0 MHz

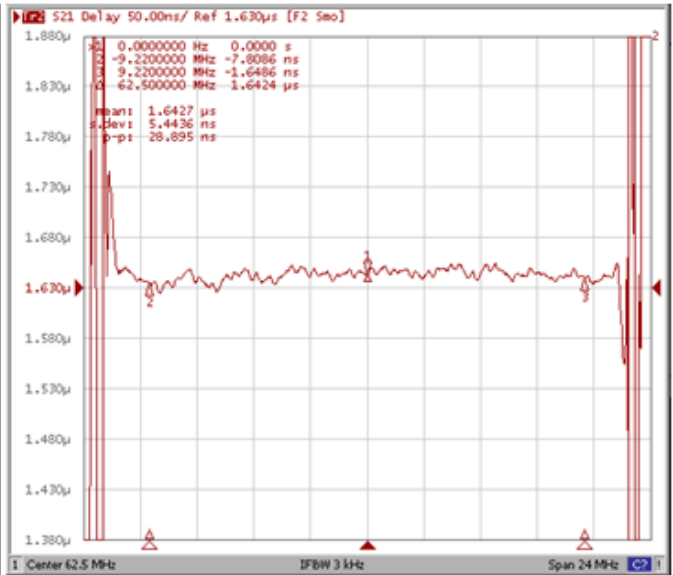


Frequency Response

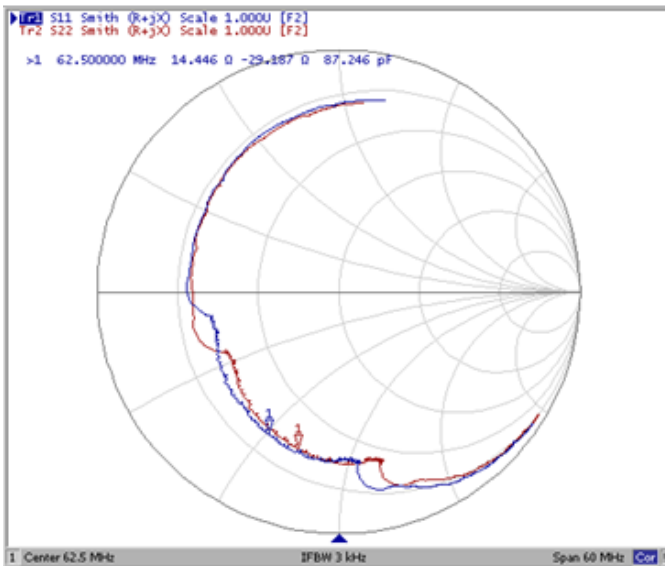
Ripple Variation Fo±9.22MHz



Group Delay Variation Fo±9.22MHz



Smith Chart



SWR

