

- 122.5 MHz IF SAW Filter / 19.09 MHz Bandwidth
- Revision 0: 6. August 2009

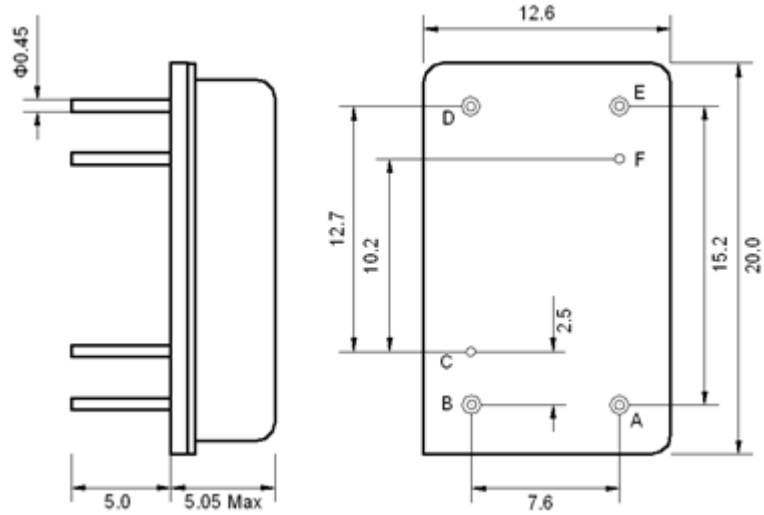
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-20	-	70
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	122.40	122.50	122.60
Insertion Loss at Fo	dB	-	22.00	24.00
Amplitude Ripple Variation	dB <sub>p-p</sub>	-	0.6	1.0
Group Delay Variation	nsec	-	39	70
Absolute Delay at Fo	μsec	-	2.19	-
Bandwidth at -1.0 dB	MHz	-	19.09	-
Bandwidth at -3.0 dB	MHz	19.30	19.40	-
Bandwidth at -40.0 dB	MHz	-	20.83	21.00
Relative Attenuation				
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-72	-

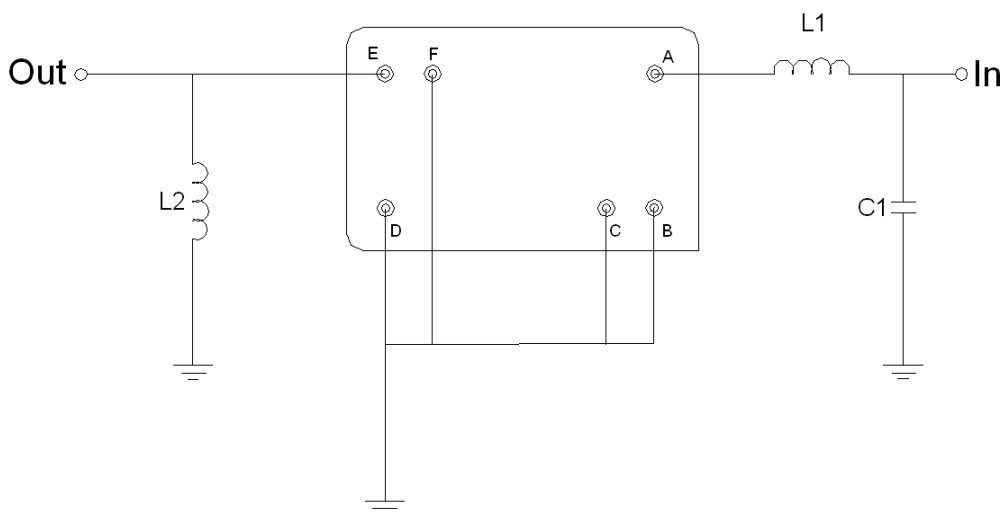
**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

## Package Dimensions



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

## Testing Environment



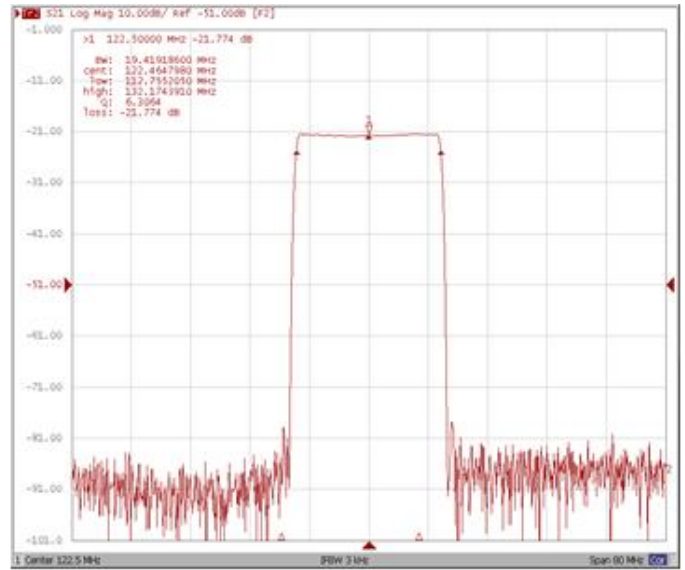
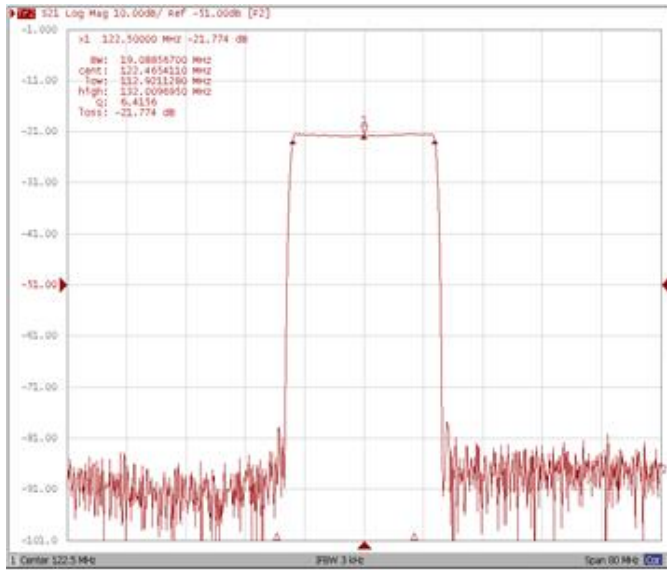
Test Fixture & Values	
Input	L1= 56 nH, C1=30 pF
Output	L2= 150 nH
Source/Load Impedance	50 $\Omega$

## Frequency Characteristics

### Frequency Response

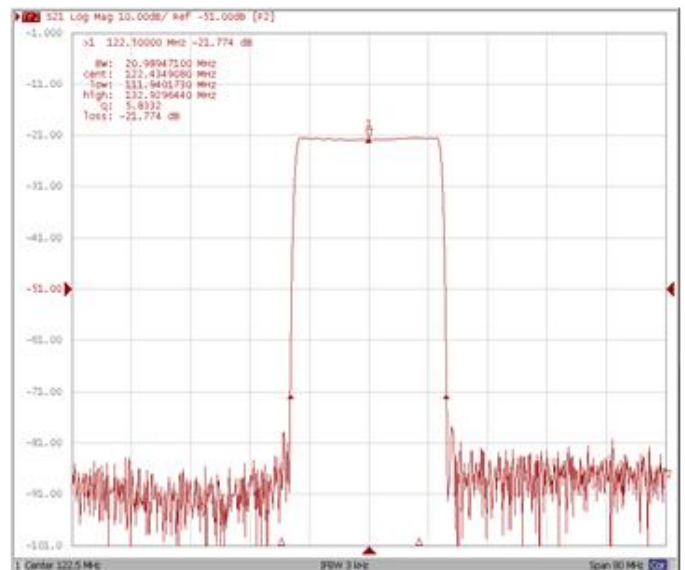
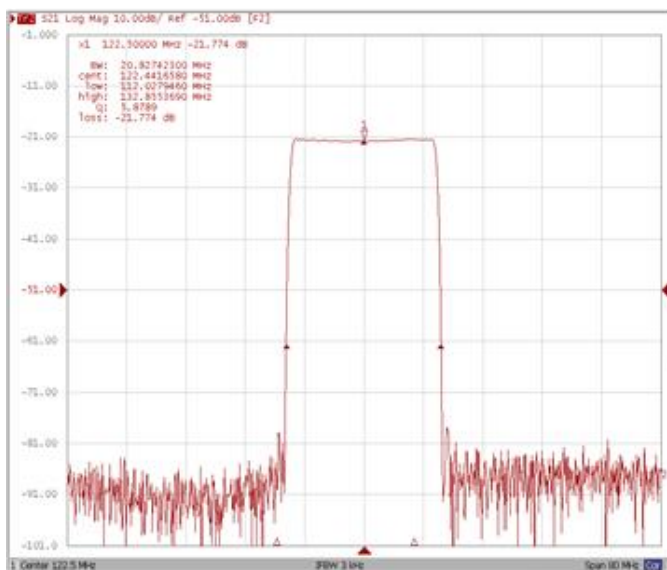
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



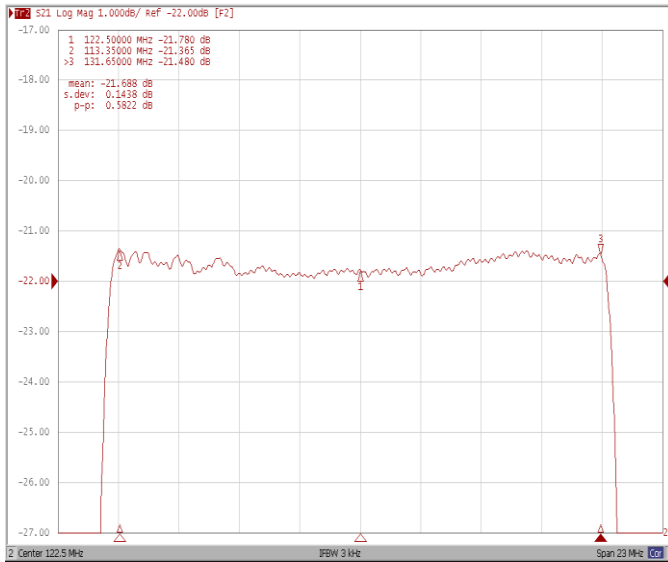
**Bandwidth at -40.0 dB**

**Bandwidth at -50.0 dB**

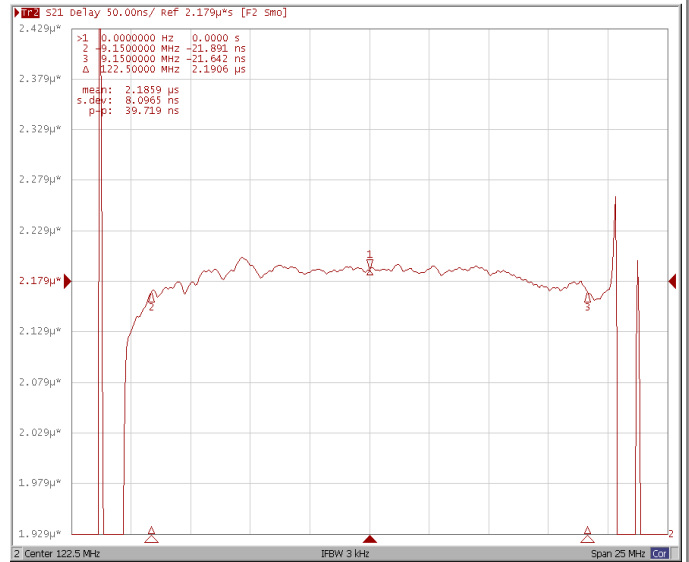


## Frequency Response

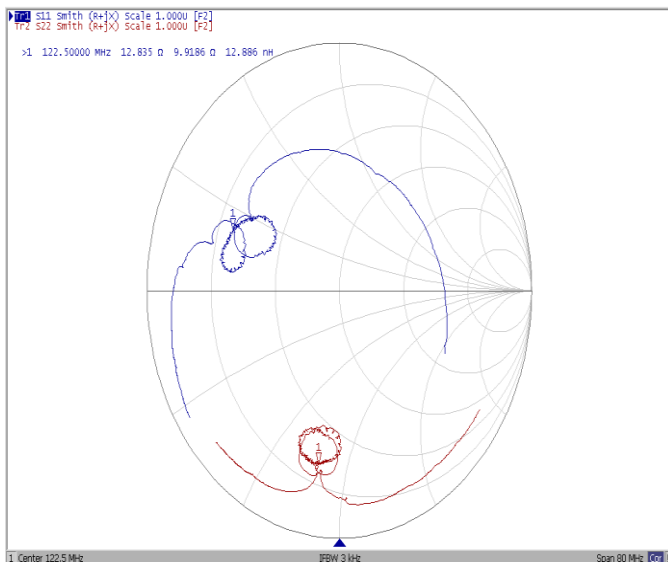
**Ripple Variation Fo±9.15 MHz**



**Group Delay Variation Fo±9.15 MHz**



**Smith Chart**



**VSWR**

