

- 200.0 MHz IF SAW Filter / 9.25 MHz Bandwidth
- Revision 0: 19 Oct. 2012

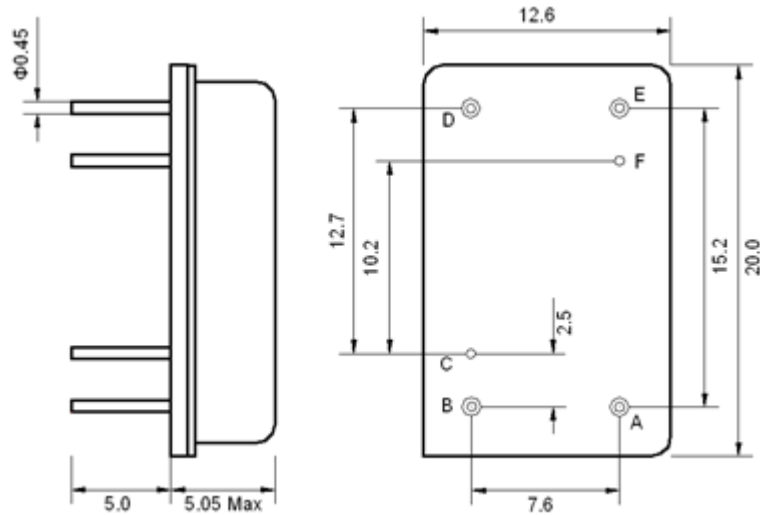
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	-
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	D40			
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	-	200.0	-
Insertion Loss at Fo	dB	-	27.0	28.5
Amplitude Ripple Variation (Fo±4.5MHz)	dB <sub>p-p</sub>	-	0.80	1.20
Group Delay Variation (Fo±4.5MHz)	nsec	-	87	150
Absolute Delay at Fo	µsec	-	2.83	-
Bandwidth at -1.0 dB	MHz	9.15	9.25	-
Bandwidth at -3.0 dB	MHz	-	9.50	-
Bandwidth at -20.0 dB	MHz	-	10.27	-
Bandwidth at -45.0 dB	MHz	-	10.65	10.75
Ultimate Rejection	dB	48	53	-
Temperature Coefficient	ppm/°C	-	-18	-

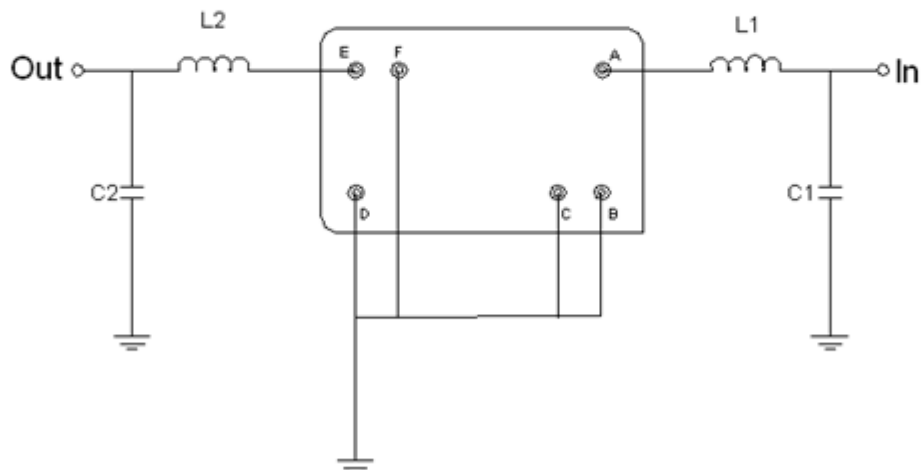
**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

## Package Dimensions



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

## Testing Environment



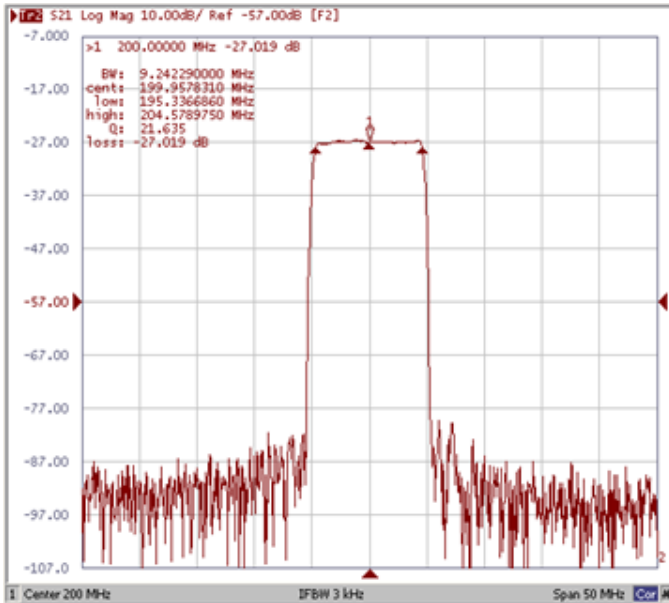
Test Fixture & Values	
Input	L1= 22 nH, C1=36 pF
Output	L2= 22 nH, C2=27 pF
Source/Load Impedance	50 $\Omega$

## Frequency Characteristics

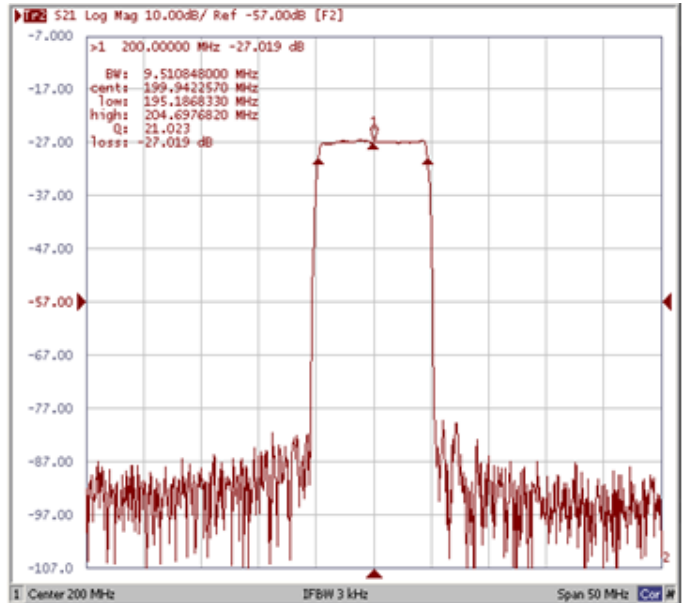
### Frequency Response

Operating Temperature: +25°C

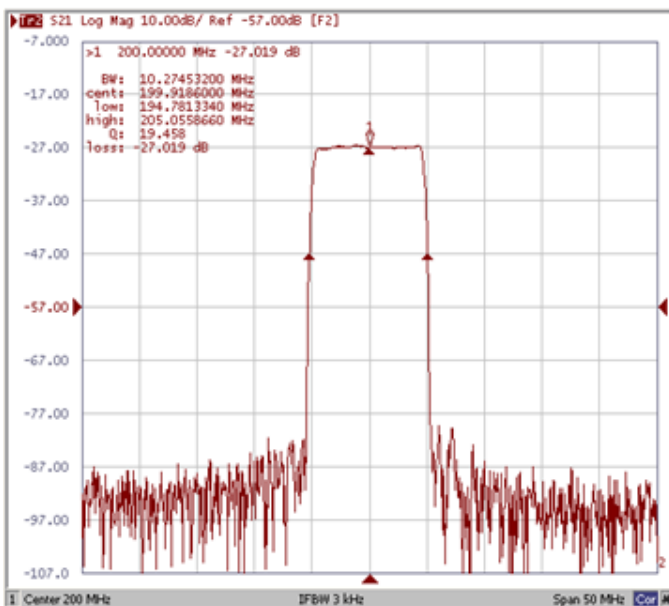
#### Bandwidth at -1.0 dB



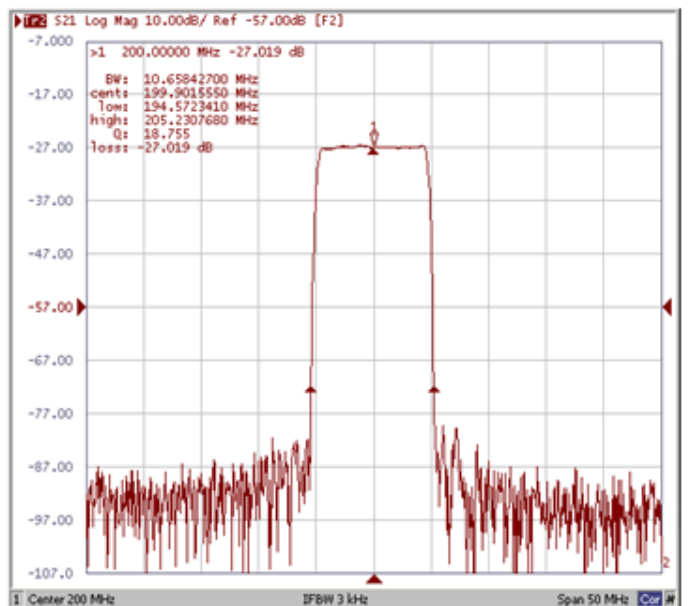
#### Bandwidth at -3.0 dB



#### Bandwidth at -20.0 dB

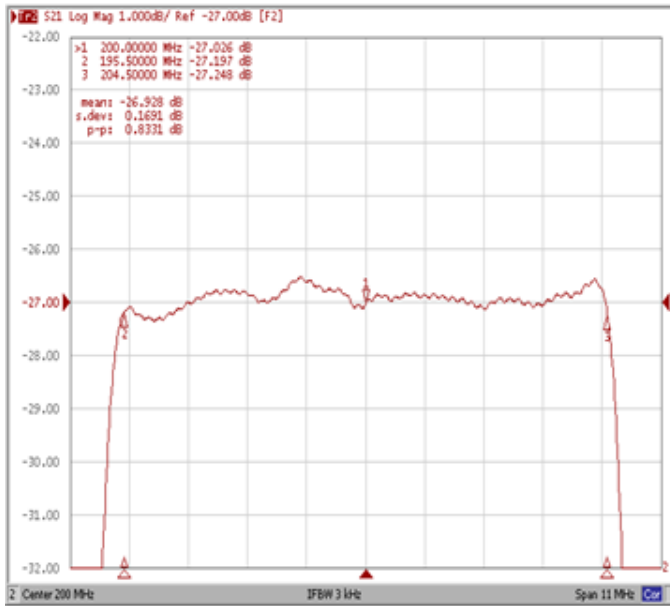


#### Bandwidth at -45.0 dB

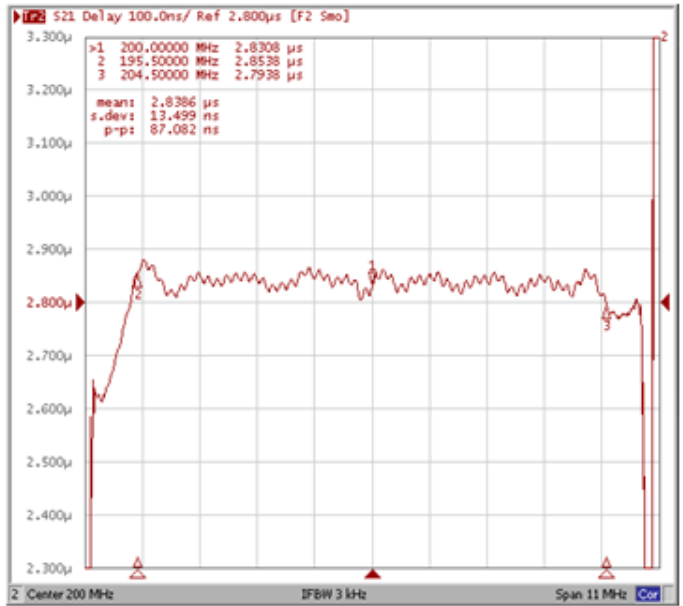


## Frequency Response

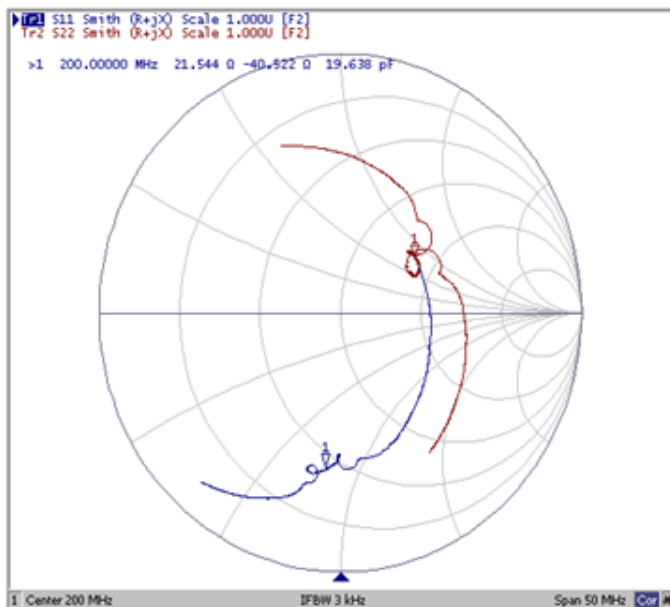
**Ripple Variation Fo±4.5 MHz**



**Group Delay Variation Fo±4.5 MHz**



**Smith Chart**



**VSWR**

