

- 200.0 MHz IF SAW Filter / 13.97 MHz Bandwidth
- Revision 0: 19 Oct. 2012

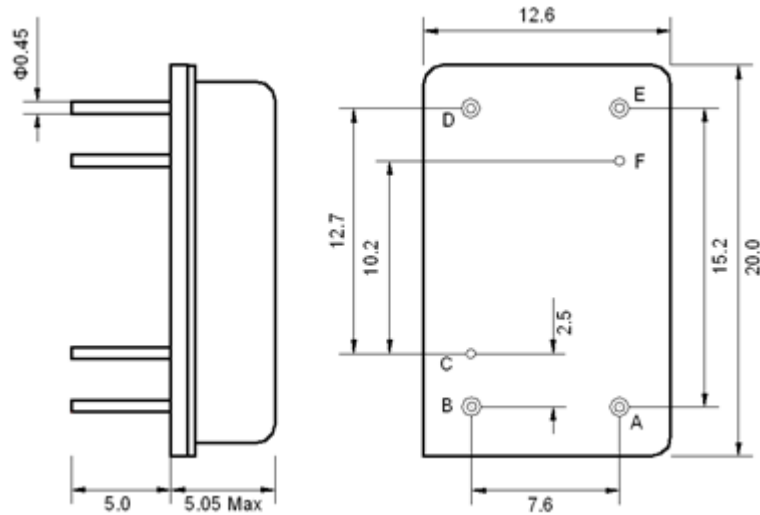
## Electrical Characteristics

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	-	26.5	28.0
Amplitude Ripple Variation (Fo±6.75MHz)	dB <sub>p-p</sub>	-	0.60	1.20
Group Delay Variation (Fo±6.75MHz)	nsec	-	36	80
Absolute Delay at Fo	µsec	-	2.30	-
Bandwidth at -1.0 dB	MHz	13.85	13.97	-
Bandwidth at -3.0 dB	MHz	-	14.30	-
Bandwidth at -20.0 dB	MHz	-	15.20	-
Bandwidth at -45.0 dB	MHz	-	15.64	15.75
Ultimate Rejection	dB	50	55	-
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.

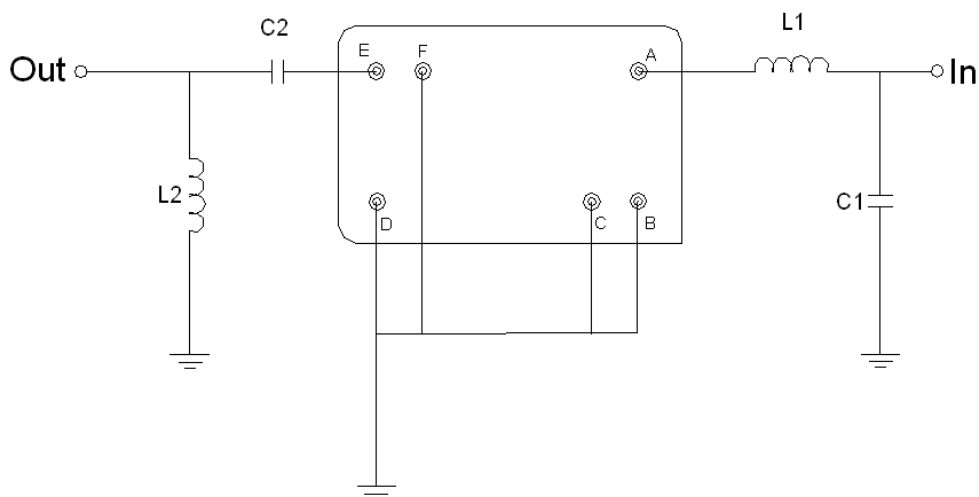
## Package Dimensions



### Pin Description

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

## Testing Environment



### Test Fixture & Values

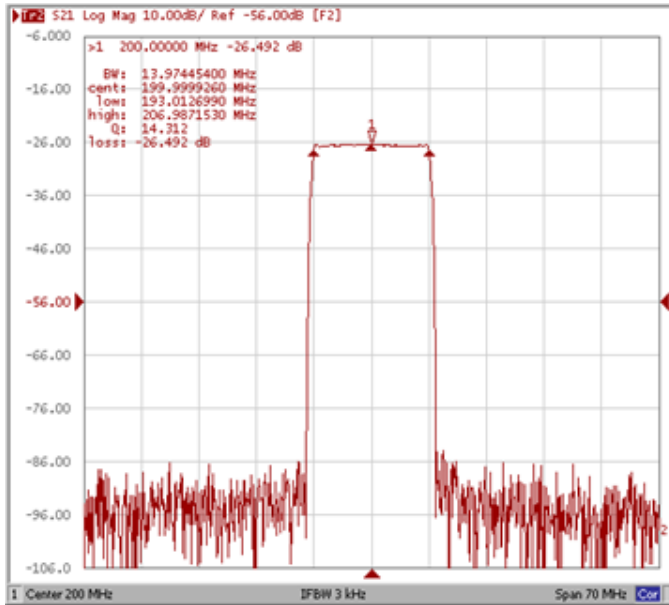
Input	L1= 27 nH, C1=27 pF
Output	L2= 22 nH, C2=56 pF
Source/Load Impedance	50 $\Omega$

## Frequency Characteristics

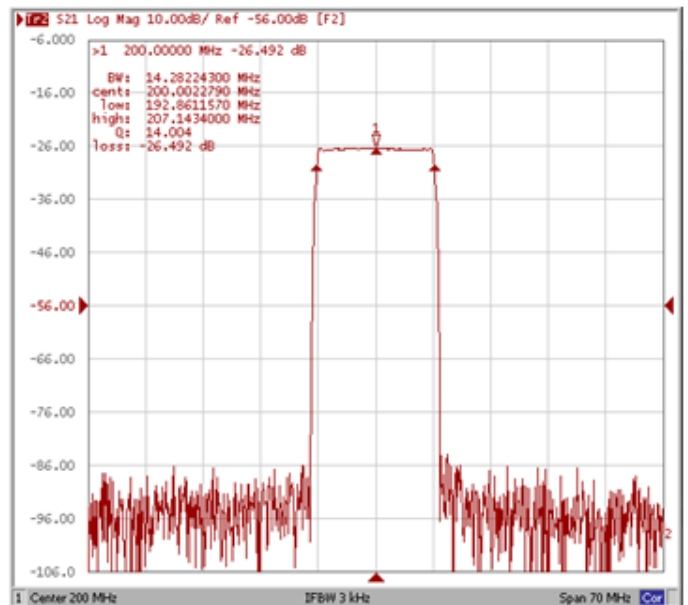
### Frequency Response

Operating Temperature: +25°C

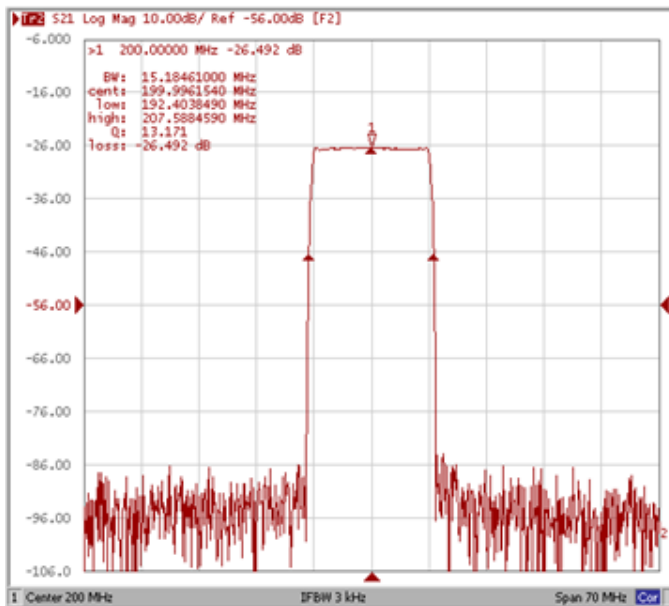
**Bandwidth at -1.0 dB**



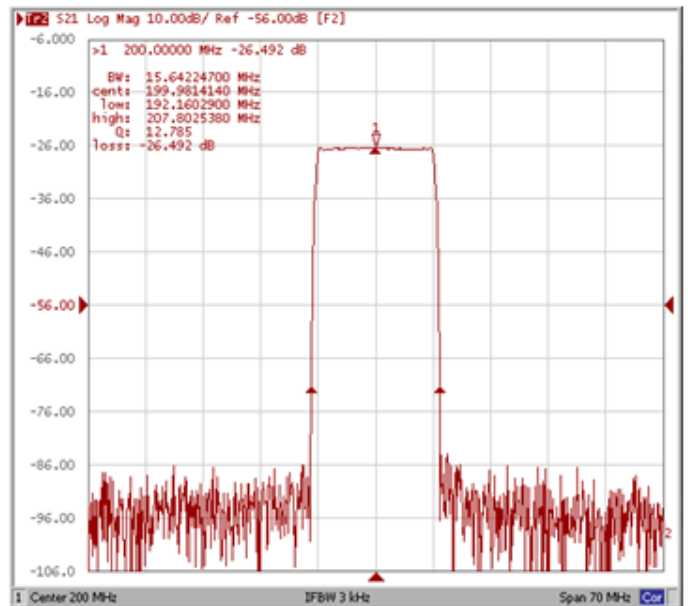
**Bandwidth at -3.0 dB**



**Bandwidth at -20.0 dB**

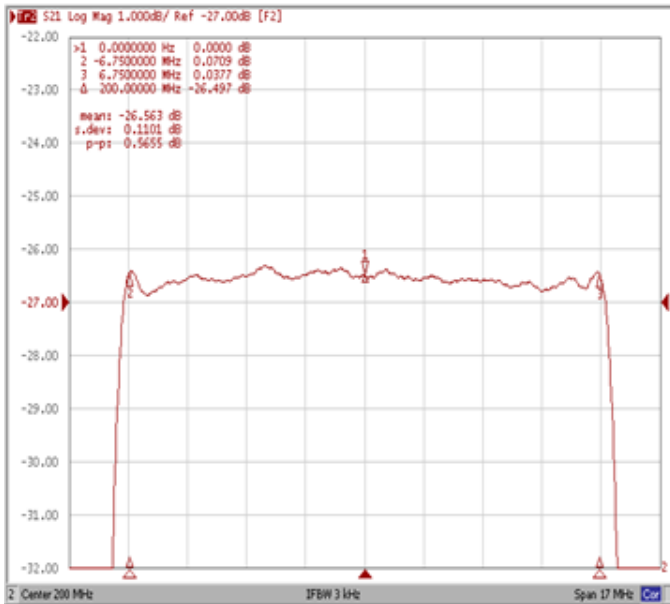


**Bandwidth at -45.0 dB**

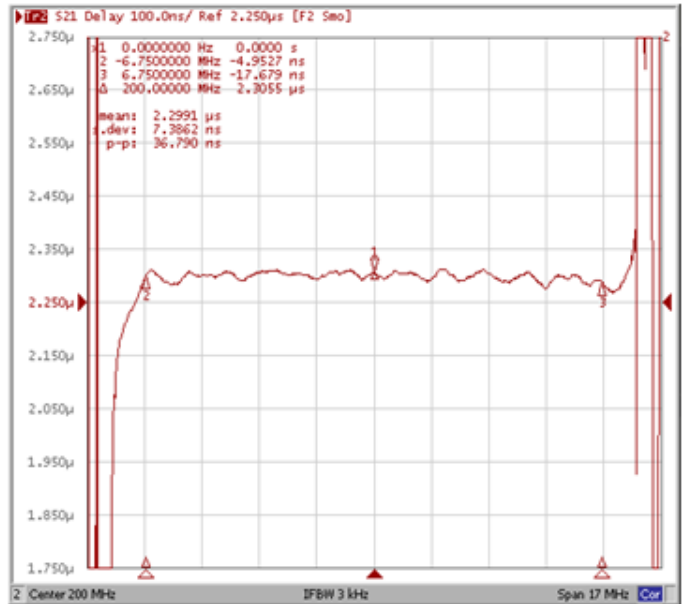


## Frequency Response

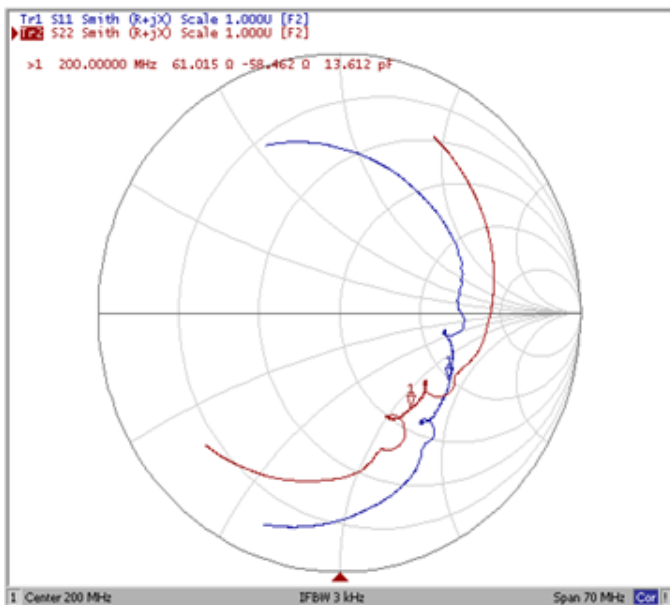
**Ripple Variation Fo±6.75 MHz**



**Group Delay Variation Fo±6.75 MHz**



**Smith Chart**



**VSWR**

