

- 155.0MHz IF SAW Filter / 9.29MHz MHz Bandwidth
- Revision 0: 18. Jan. 2012

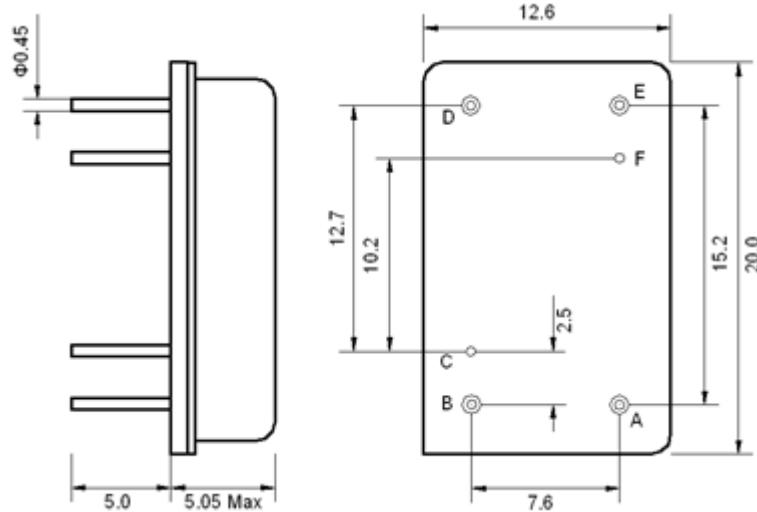
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	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	-	155.00	-
Insertion Loss at Fo	dB	-	29.5	31.5
Amplitude Ripple Variation (Fo±4.5MHz)	dB <sub>p-p</sub>	-	0.60	1.00
Group Delay Variation (Fo±4.5MHz)	nsec	-	34	80
Absolute Delay at Fo	μsec	-	2.34	-
Bandwidth at -1.0 dB	MHz	9.20	9.29	-
Bandwidth at -3.0 dB	MHz	-	9.61	-
Bandwidth at -40.0 dB	MHz	-	10.86	-
Bandwidth at -50.0 dB	MHz	-	10.97	11.05
Ultimate Rejection	dB	50	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.

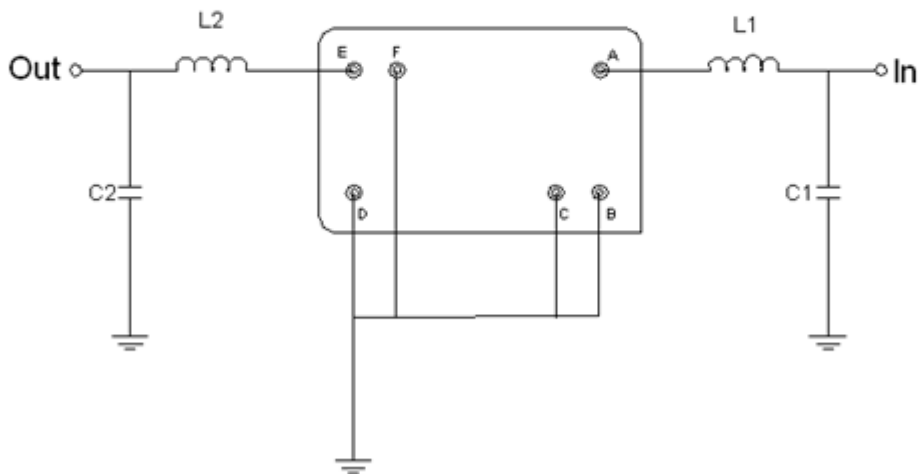
## Package Dimensions



### Pin Description

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

## Testing Environment



### Test Fixture & Values

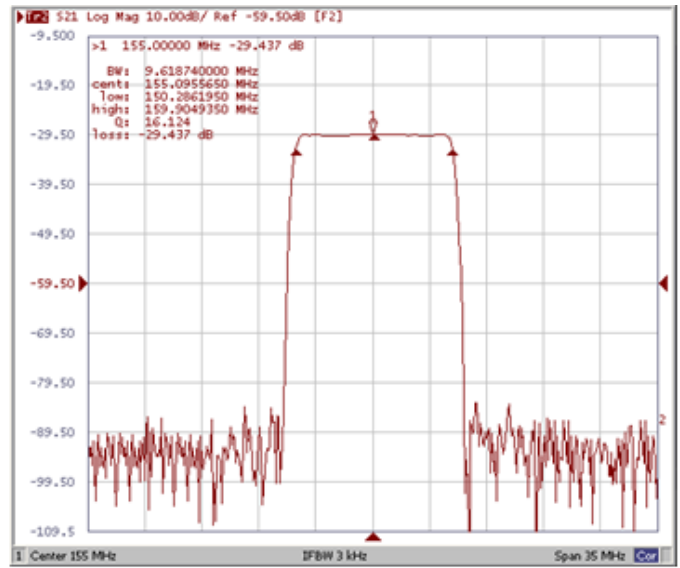
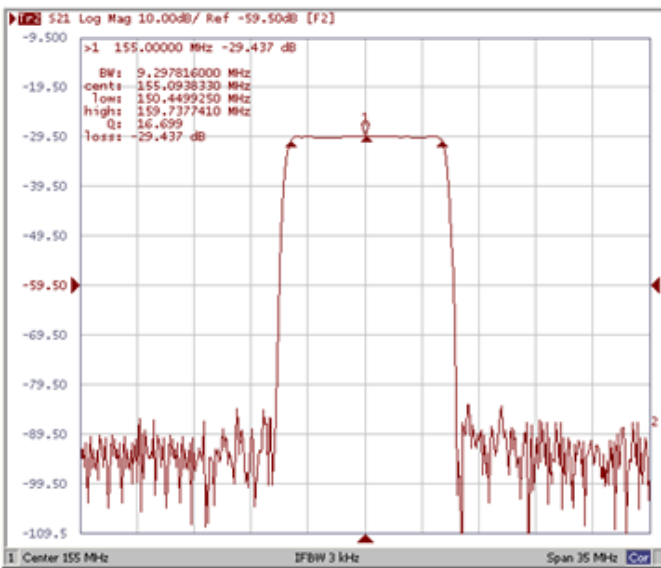
Input	L1= 39 nH, C1=36 pF
Output	L2= 39 nH, C2=36 pF
Source/Load Impedance	50 $\Omega$

## Frequency Characteristics

### Frequency Response

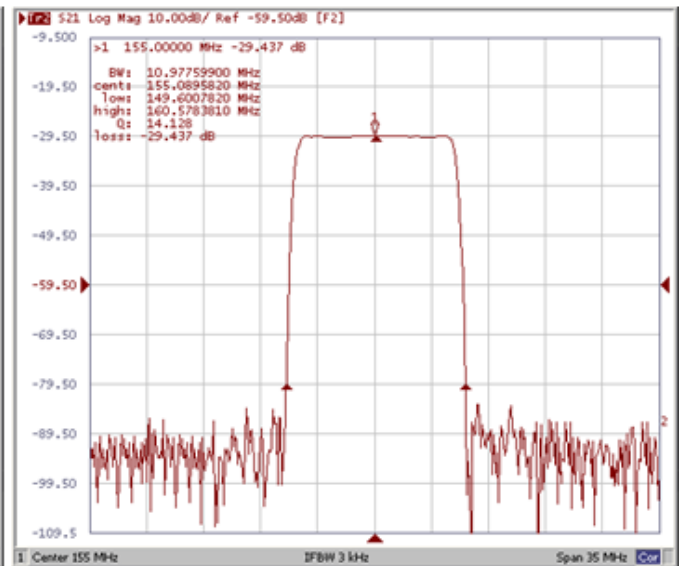
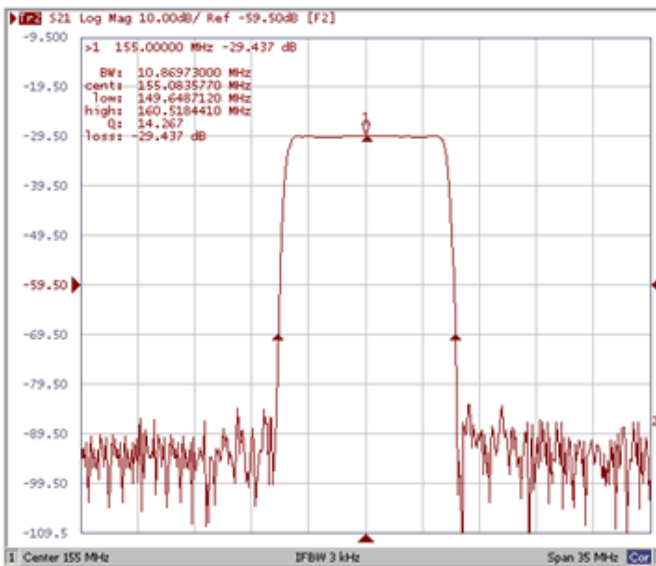
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



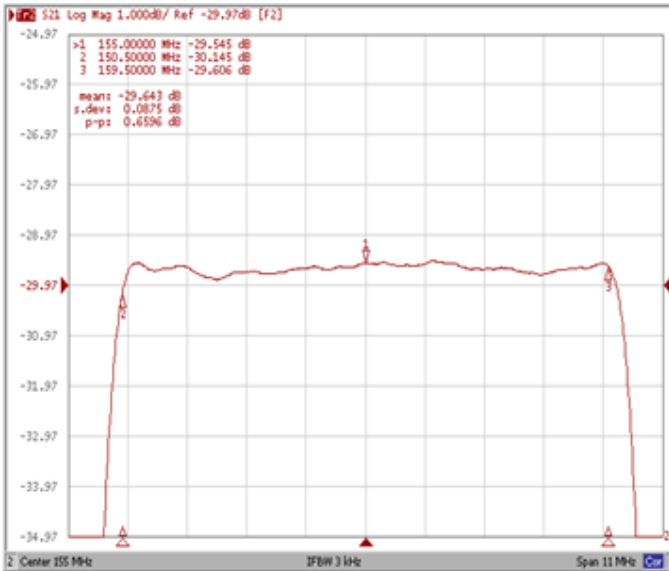
**Bandwidth at -40.0 dB**

**Bandwidth at -50.0 dB**

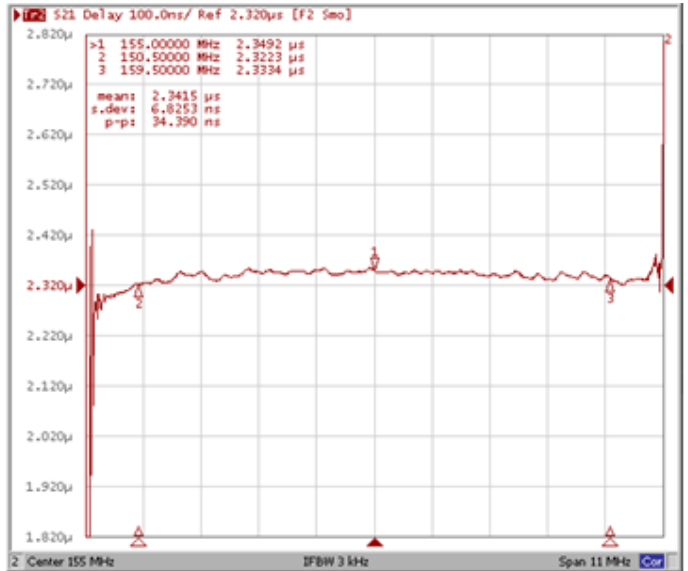


## Frequency Response

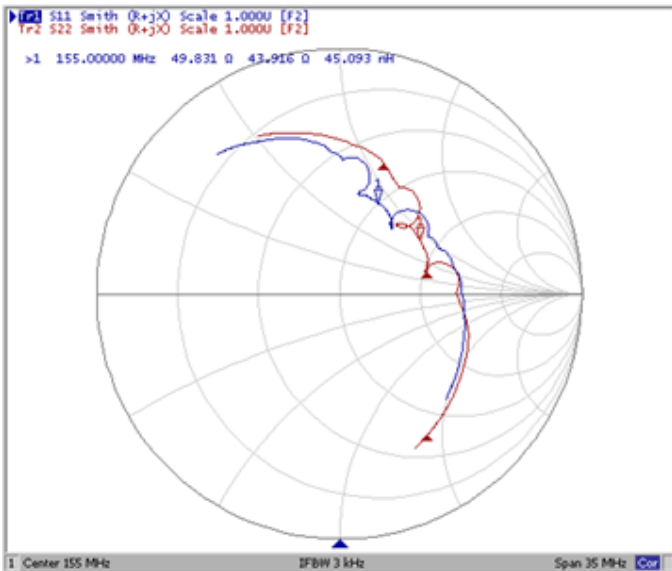
**Ripple Variation Fo±4.5 MHz**



**Group Delay Variation Fo±4.5 MHz**



**Smith Chart**



**VSWR**

