

- 60.0MHz IF SAW Filter / 9.30MHz MHz Bandwidth
- Revision 0: 18. Jan. 2012

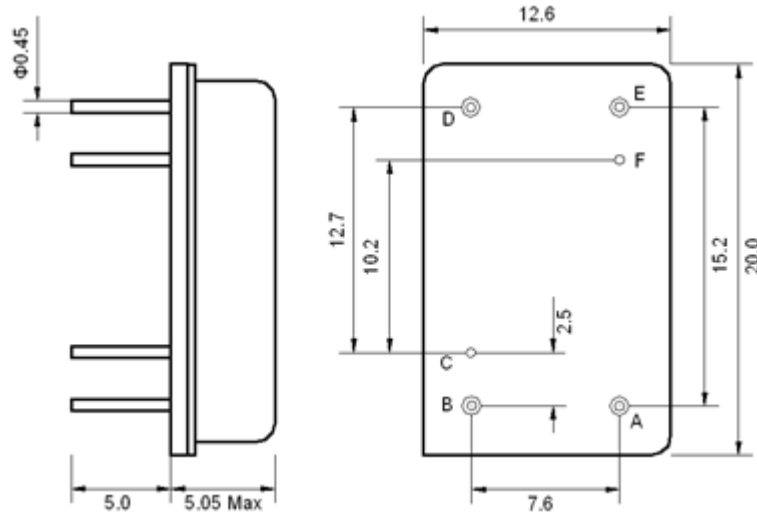
## Electrical Characteristics

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	-	60.00	-
Insertion Loss at Fo	dB	-	21.60	23.50
Amplitude Ripple Variation (Fo±4.5MHz)	dB <sub>p-p</sub>	-	0.60	1.00
Group Delay Variation (Fo±4.5MHz)	nsec	-	57	100
Absolute Delay at Fo	µsec	-	2.35	-
Bandwidth at -1.0 dB	MHz	9.20	9.30	-
Bandwidth at -3.0 dB	MHz	-	9.62	-
Bandwidth at -40.0 dB	MHz	-	10.83	-
Bandwidth at -50.0 dB	MHz	-	10.92	11.05
Ultimate Rejection	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-72	-

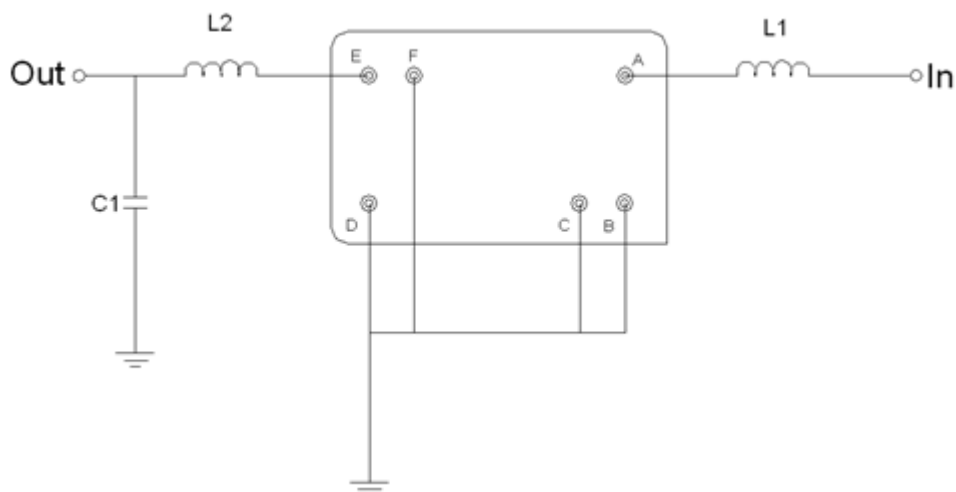
**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

## Package Dimensions



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

## Testing Environment

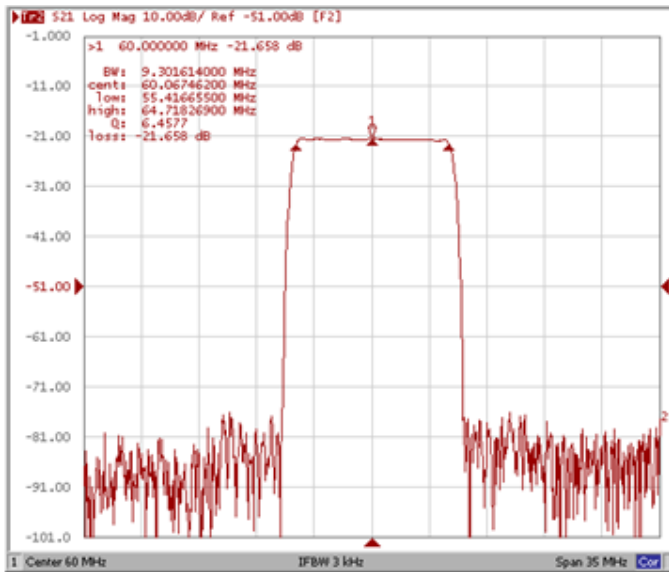


Test Fixture & Values	
Input	L1= 56 nH,
Output	L2= 47 nH, C1=27 pF
Source/Load Impedance	50 $\Omega$

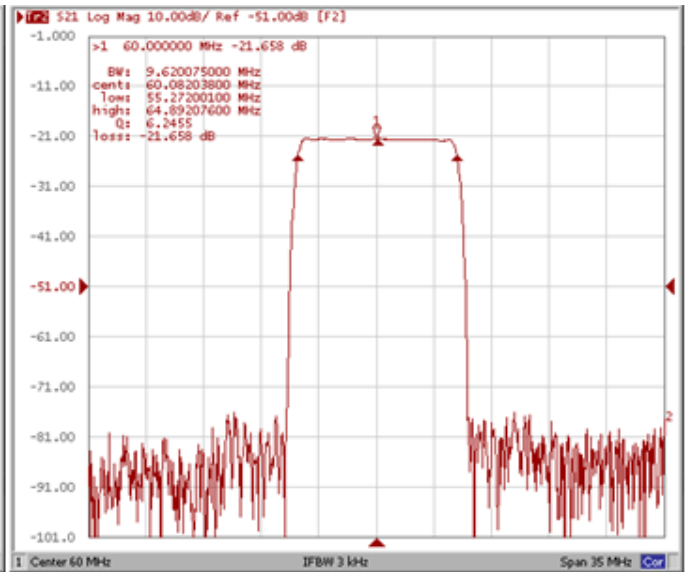
## Frequency Characteristics

### Frequency Response

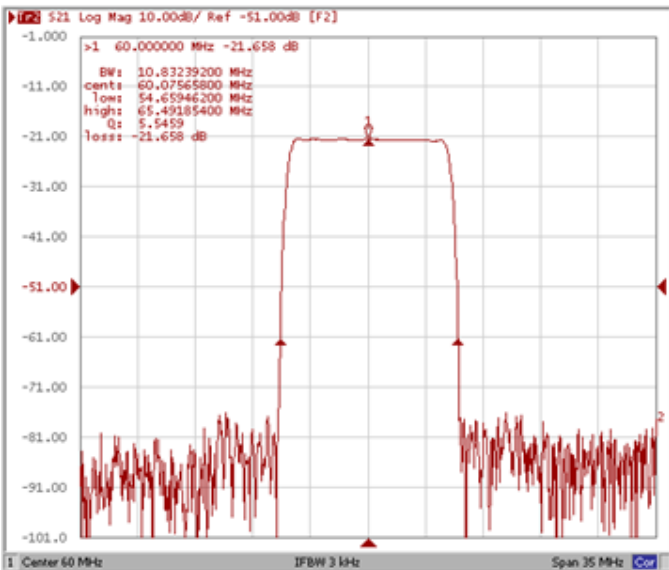
**Bandwidth at -1.0 dB**



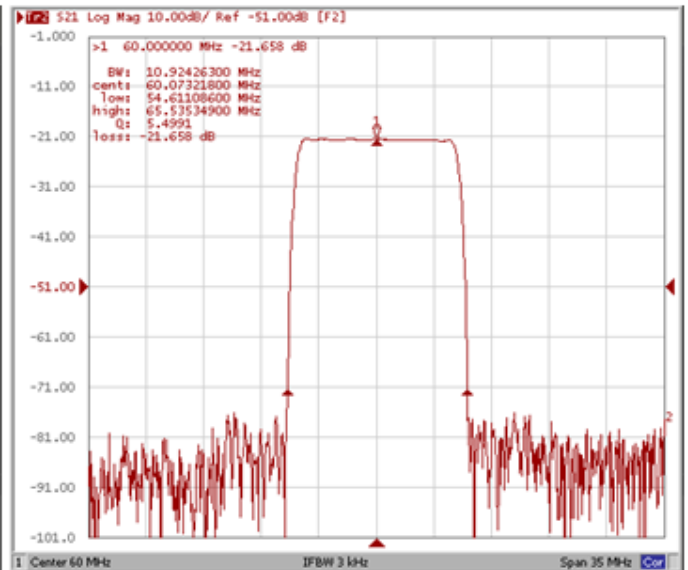
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



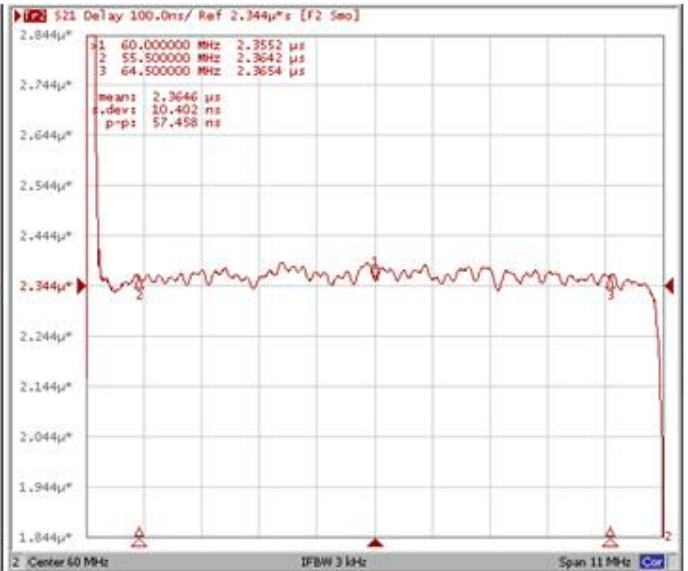
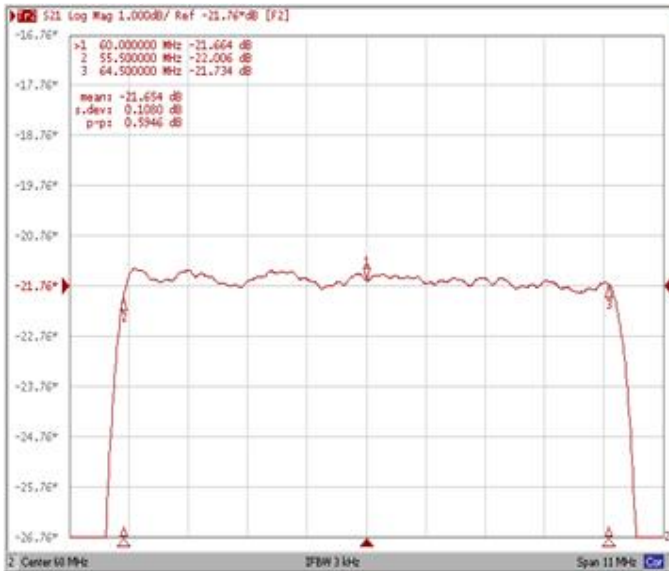
**Bandwidth at -50.0 dB**



## Frequency Response

**Ripple Variation Fo±4.5 MHz**

**Group Delay Variation Fo±4.5 MHz**



**Smith Chart**

**VSWR**

