

- 70.00 MHz IF SAW Filter / 9.30 MHz Bandwidth
- Revision 0: 26 Mar. 2012

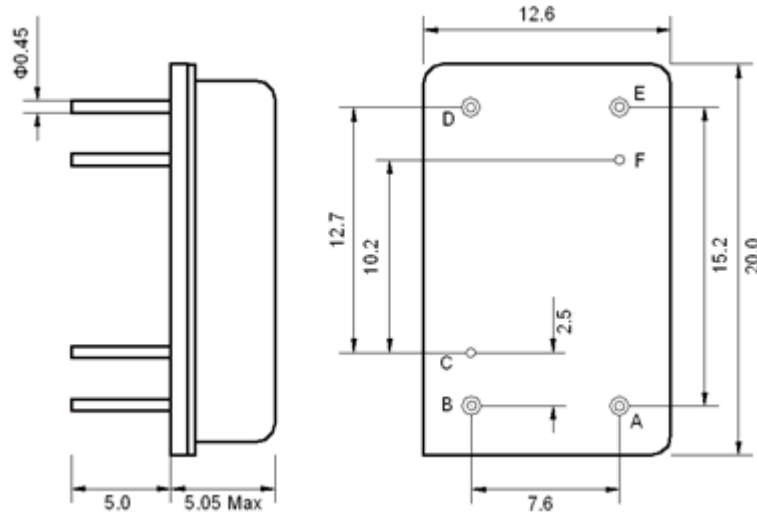
Electrical Characteristics

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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D			
Length x Width	mm ²	-	20.0 x 12.6	-
Height	mm	-	-	5.05

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	70.00	-
Insertion Loss at Fo	dB	-	28.50	30.00
Amplitude Ripple (Fo ±4.50 MHz)	dB _{p-p}	-	0.8	1.2
Group Delay Variation (Fo ±4.50 MHz)	nsec	-	60	200
Absolute Delay at Fo	μsec	-	2.40	-
Bandwidth at -1.0 dB	MHz	9.20	9.30	-
Bandwidth at -3.0 dB	MHz	-	9.50	-
Bandwidth at -35.0 dB	MHz	-	10.30	10.40
Relative Attenuation: (Out of Band Gain)				
Fc ± 5.2MHz	dB	30	40	-
Fc ± 6.0MHz	dB	40	45	-
Fc ± 10.0MHz	dB	40	45	-
Fc ± 15.0MHz	dB	40	45	-
Temperature coefficient	ppm/°C	-	-18	-

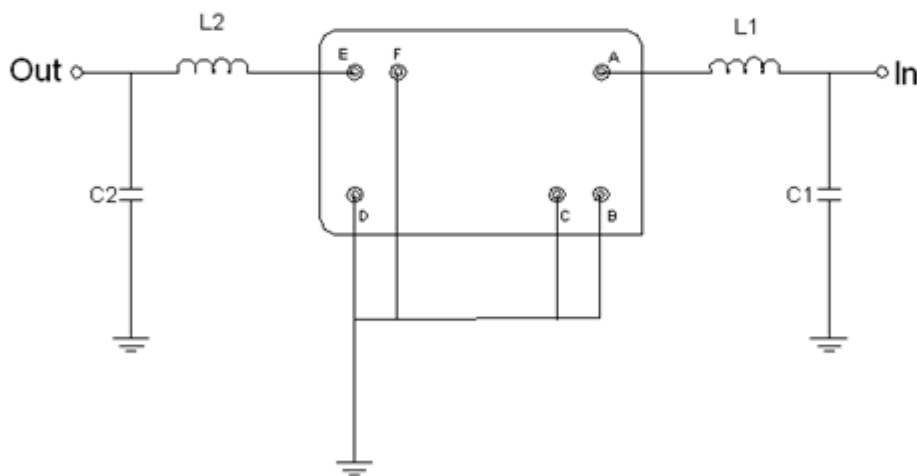
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment

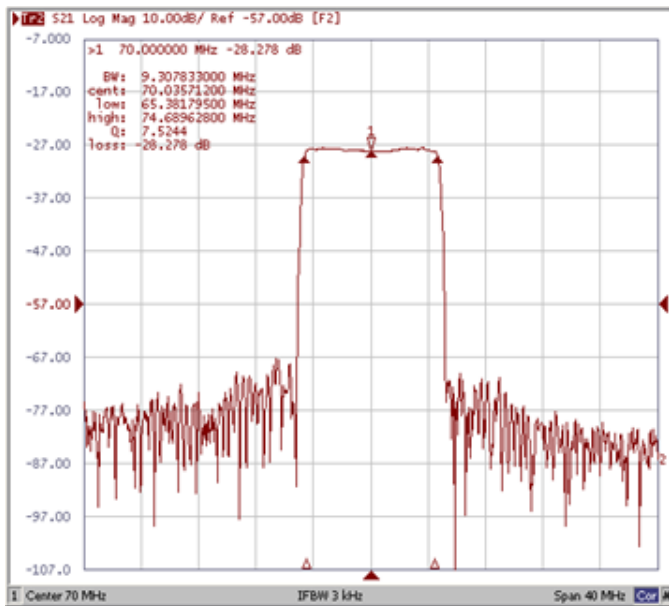


Test Fixture & Values	
Input	L1=270 nH, C1=30 pF
Output	L2=120 nH, C2=33 pF
Source/Load Impedance	50 Ω

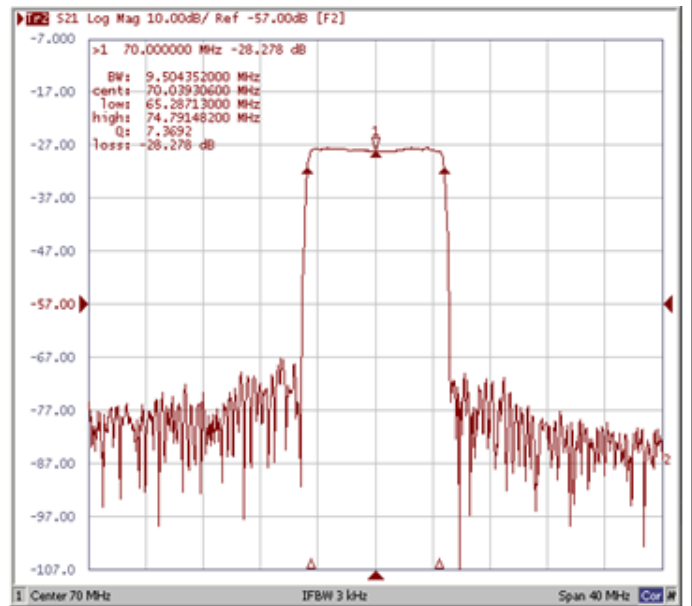
Frequency Characteristics

Frequency Response

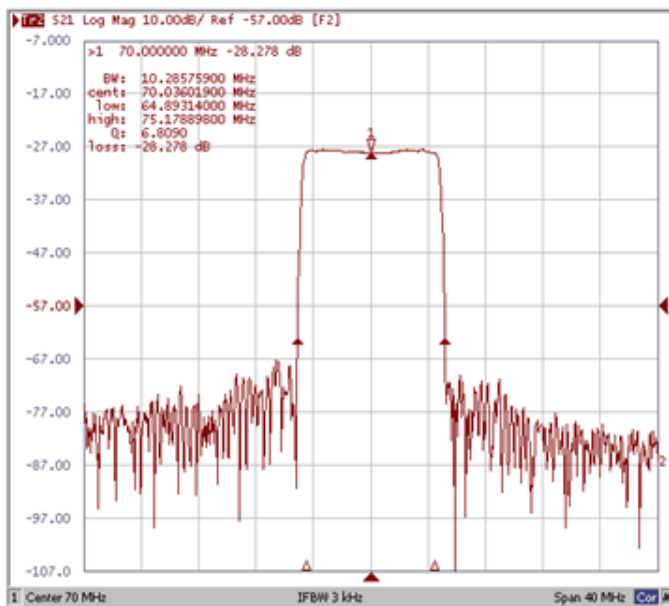
Bandwidth at -1.0 dB



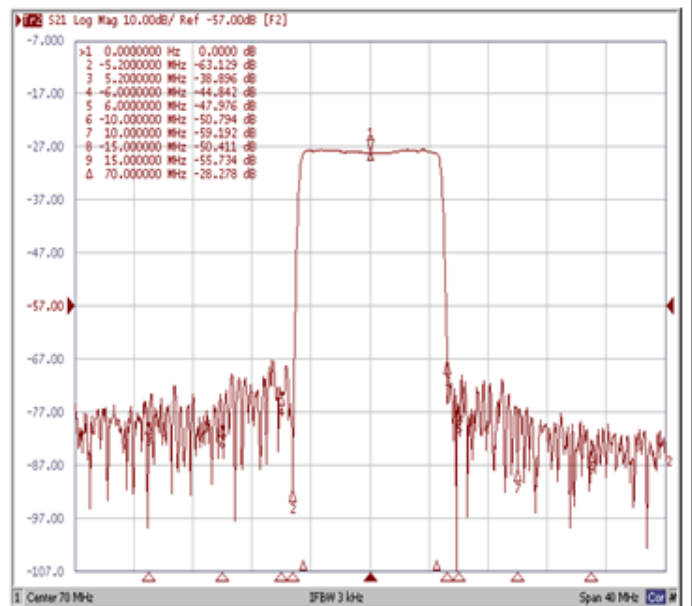
Bandwidth at -3.0 dB



Bandwidth at -35.0 dB

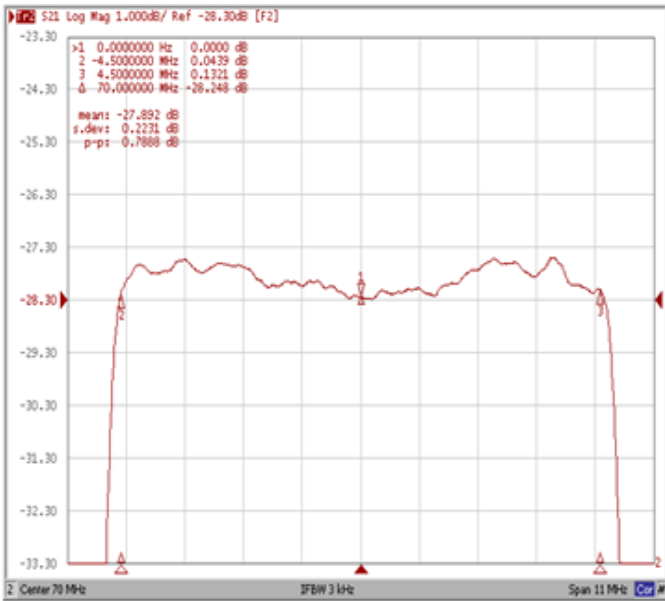


Out of Band Gain

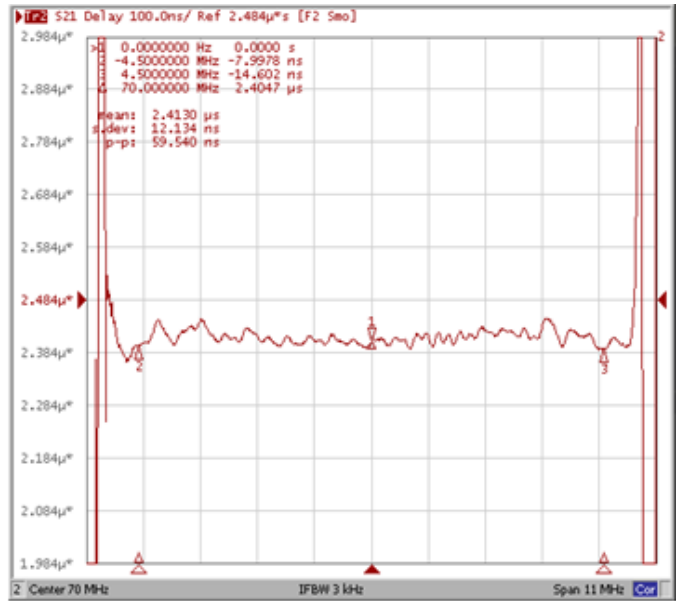


Frequency Response

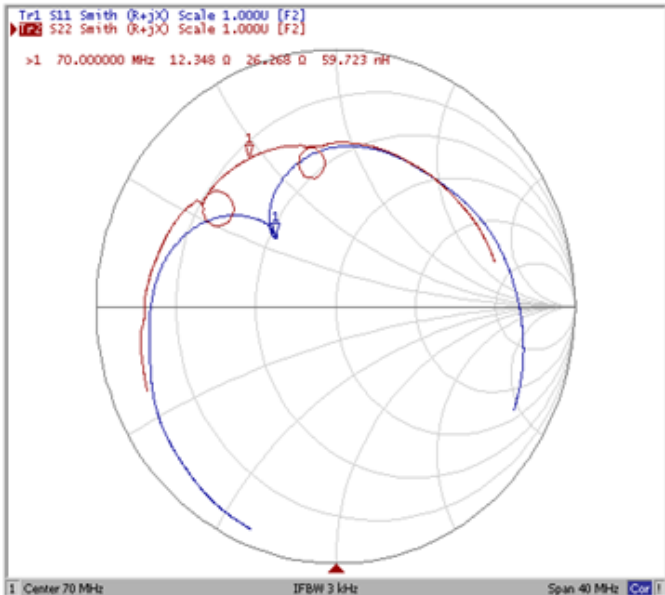
Ripple Variation Fo±4.5MHz



Group Delay Variation Fo±4.5MHz



Smith Chart



VSWR

