- **115.0 MHz IF SAW Filter / 9.32 MHz Bandwidth**
- **Revision 0: 26. Mar. 2012**

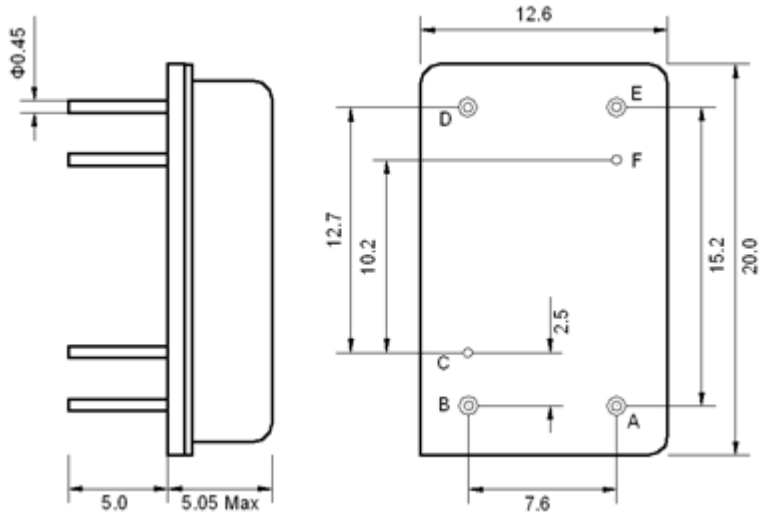
Electrical Characteristics

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	mm²	-	20.0 x 12.6	-
Height	mm	-	-	5.05

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	115.00	-
Insertion Loss at Fo	dB	-	25.50	27.00
Amplitude Ripple (Fo ±4.50 MHz)	dB_{p-p}	-	0.6	1.2
Group Delay Variation (Fo ±4.50 MHz)	nsec	-	100	200
Absolute Delay at Fo	µsec	-	2.48	-
Bandwidth at –1.0 dB	MHz	9.20	9.32	-
Bandwidth at –3.0 dB	MHz	-	9.52	-
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	-

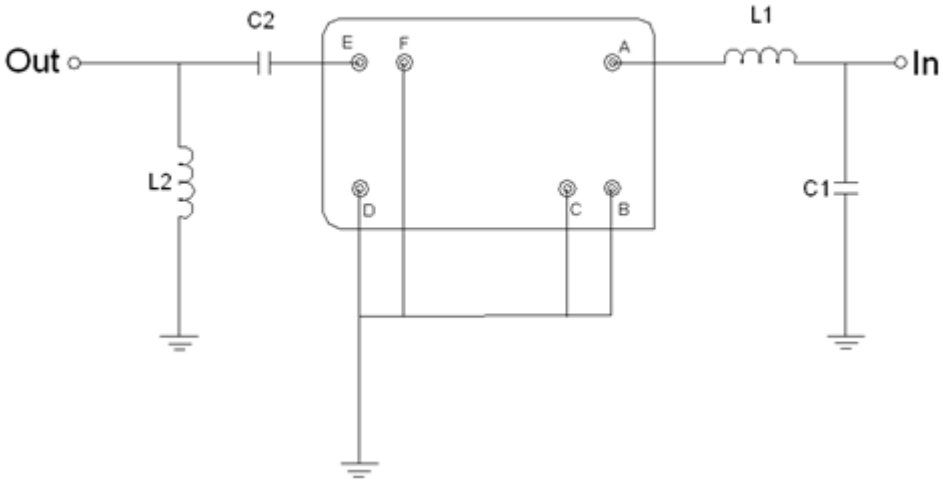
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



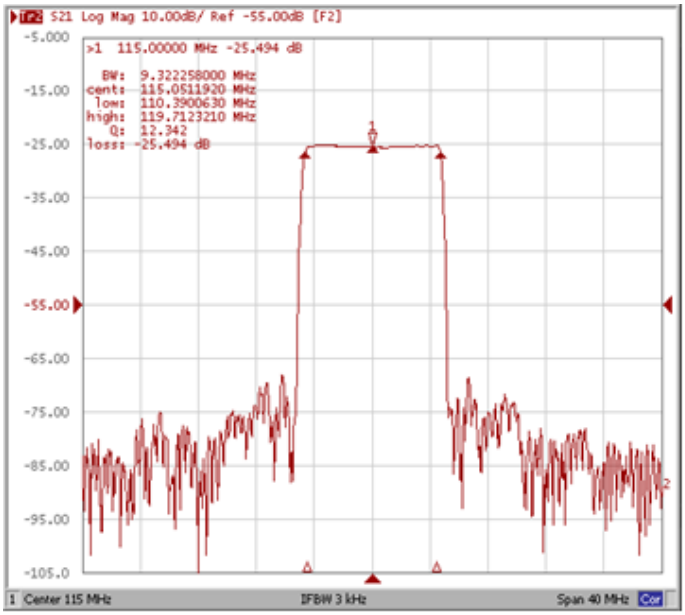
Test Fixture & Values	
Input	L1=68 nH, C1=27 pF
Output	L2=47 nH, C2=150 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

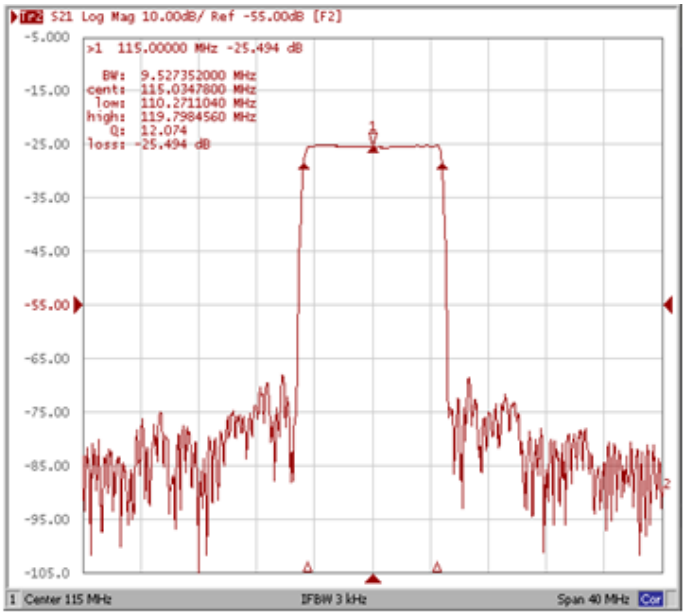
Frequency Response

*Operating Temperature : +25℃

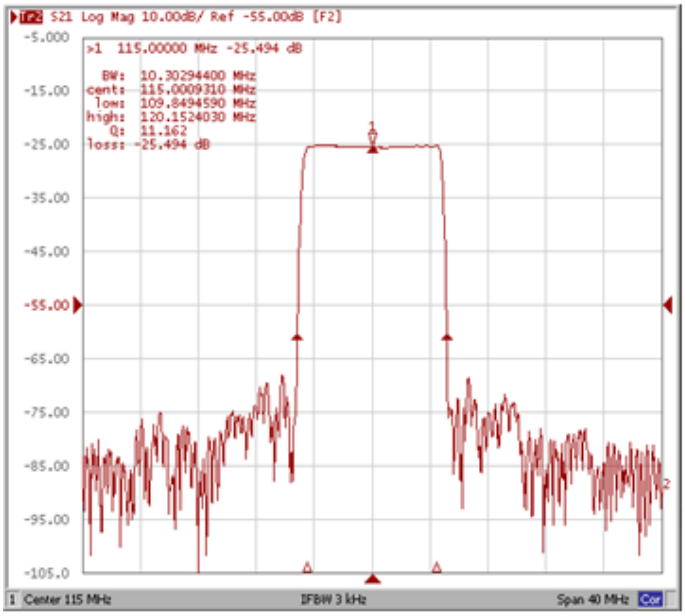
Bandwidth at –1.0 dB



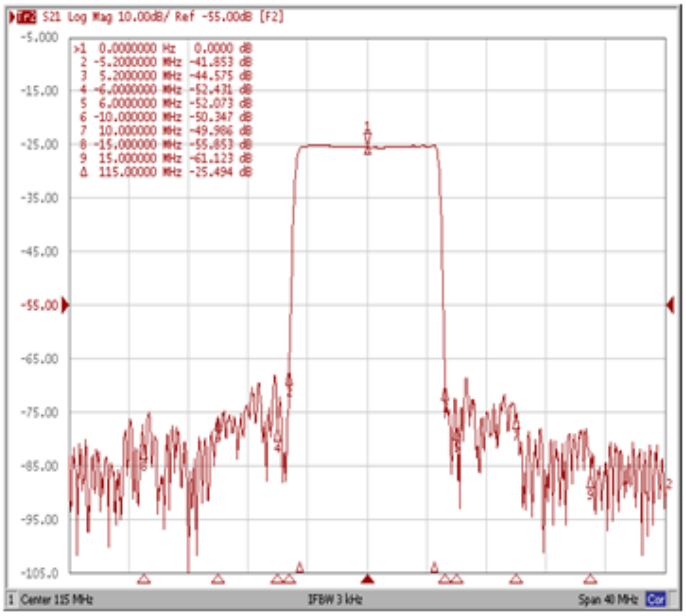
Bandwidth at –3.0 dB



Bandwidth at –35.0 dB

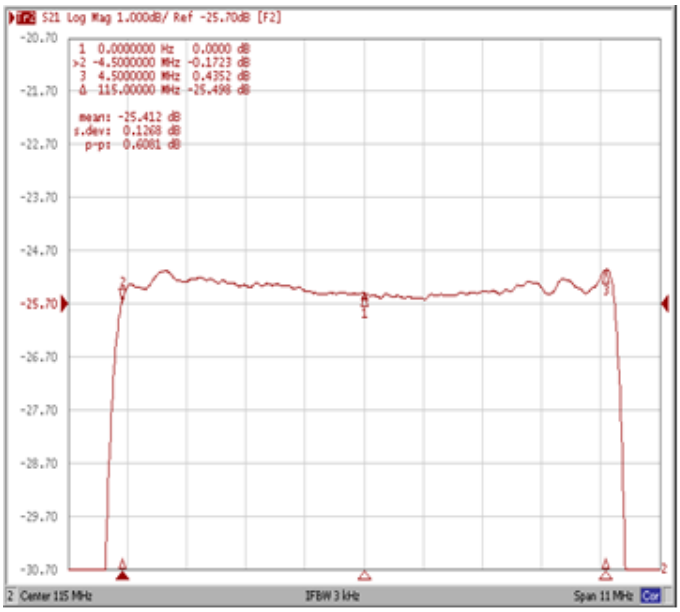


Out of Band Gain

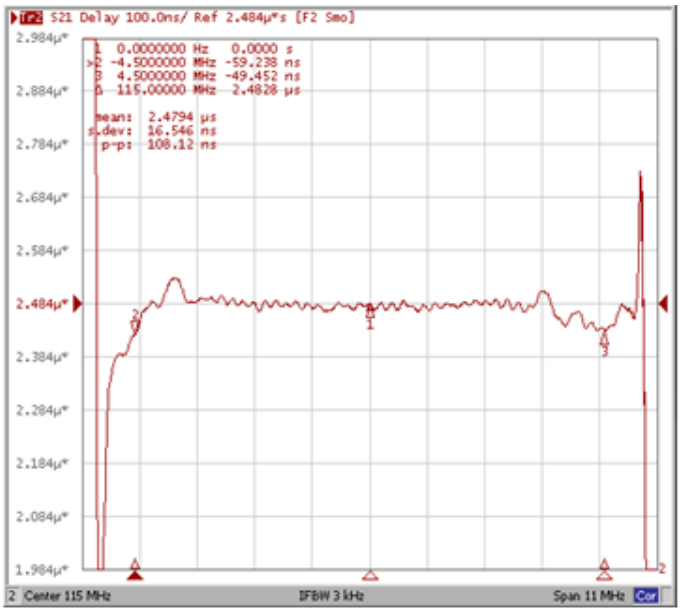


Frequency Response

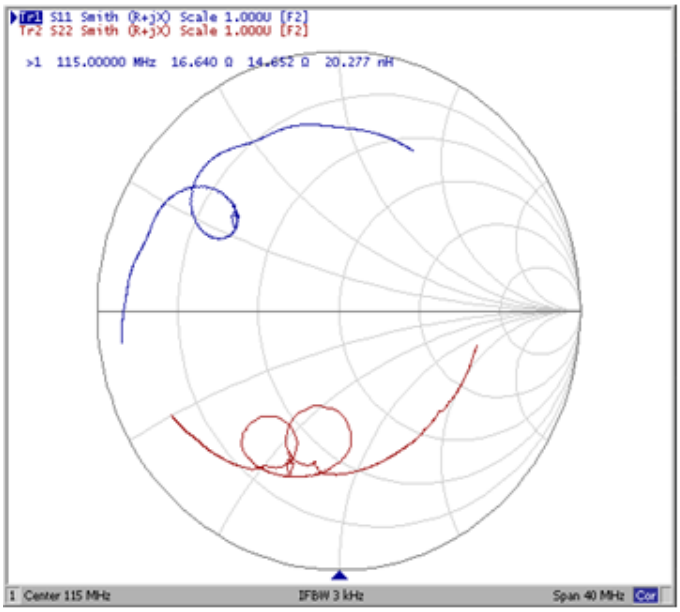
Ripple Variation Fo±4.5MHz



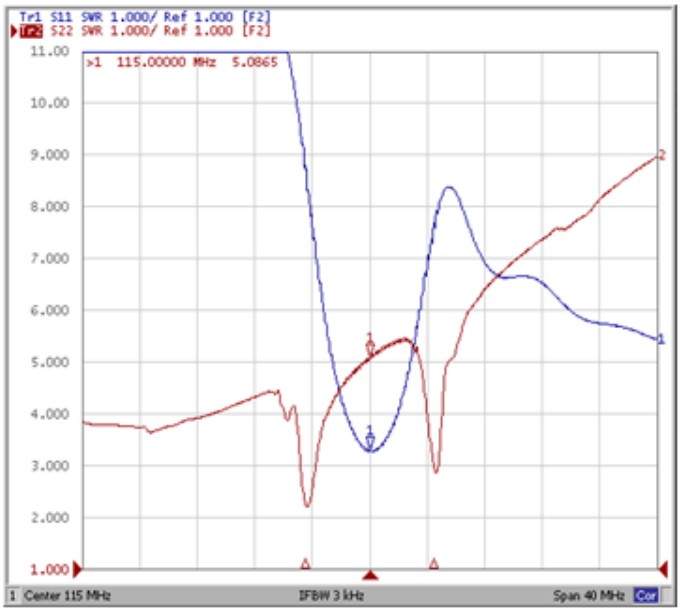
Group Delay Variation Fo±4.5MHz



Smith Chart



VSWR



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