

- 295.0 MHz IF SAW Filter / 9.35 MHz Bandwidth
- Revision 0: 19 Oct. 2012

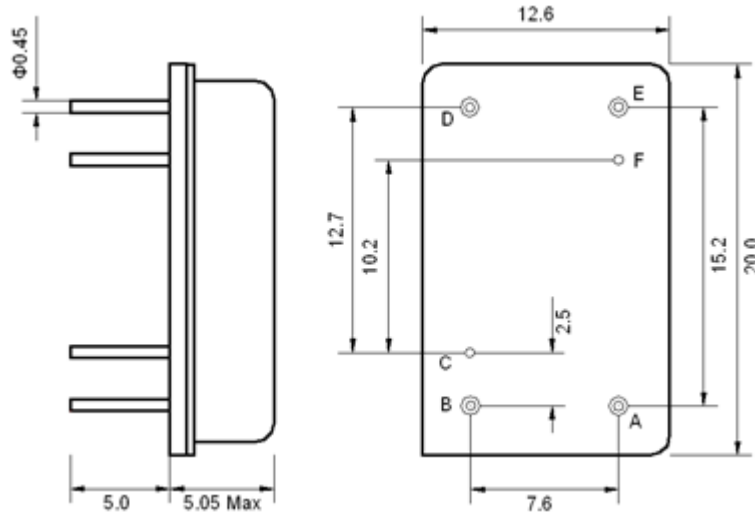
Electrical Characteristics

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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D40			
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	-	295.0	-
Insertion Loss at Fo	dB	-	28.0	29.5
Amplitude Ripple Variation (Fo±4.5MHz)	dB _{p-p}	-	0.80	1.20
Group Delay Variation (Fo±4.5MHz)	nsec	-	65	120
Absolute Delay at Fo	µsec	-	2.33	-
Bandwidth at -1.0 dB	MHz	9.25	9.35	-
Bandwidth at -3.0 dB	MHz	-	9.63	-
Bandwidth at -20.0 dB	MHz	-	10.45	-
Bandwidth at -45.0 dB	MHz	-	10.89	11.00
Ultimate Rejection	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-18	-

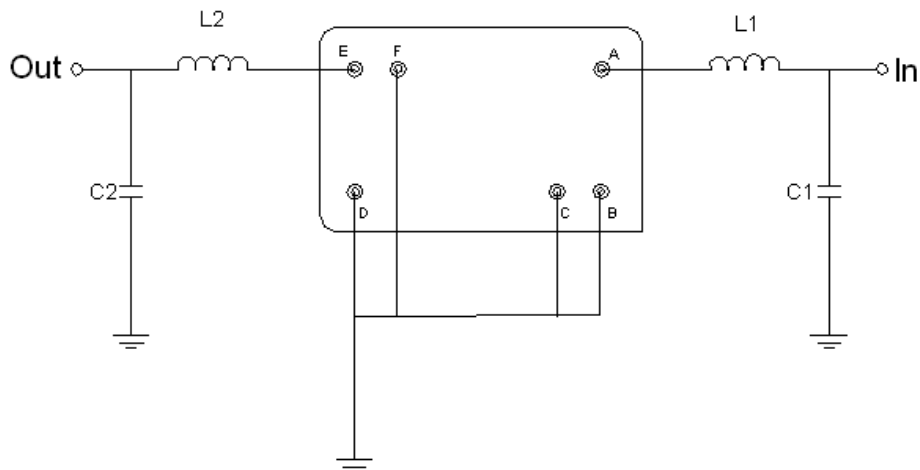
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



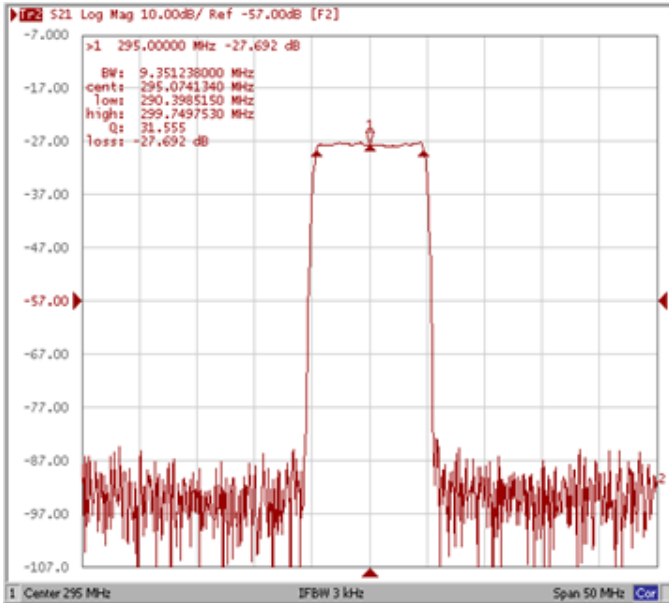
Test Fixture & Values	
Input	L1= 10 nH, C1=15 pF
Output	L2= 10 nH, C2=15 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

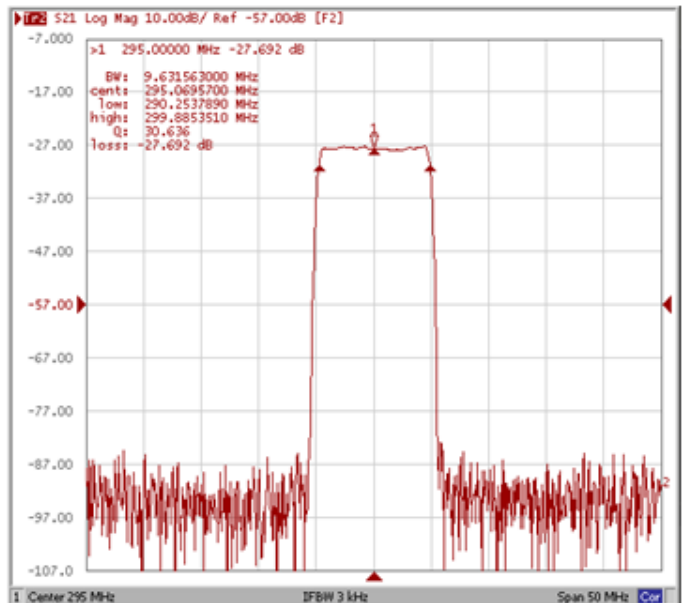
Frequency Response

Operating Temperature: +25°C

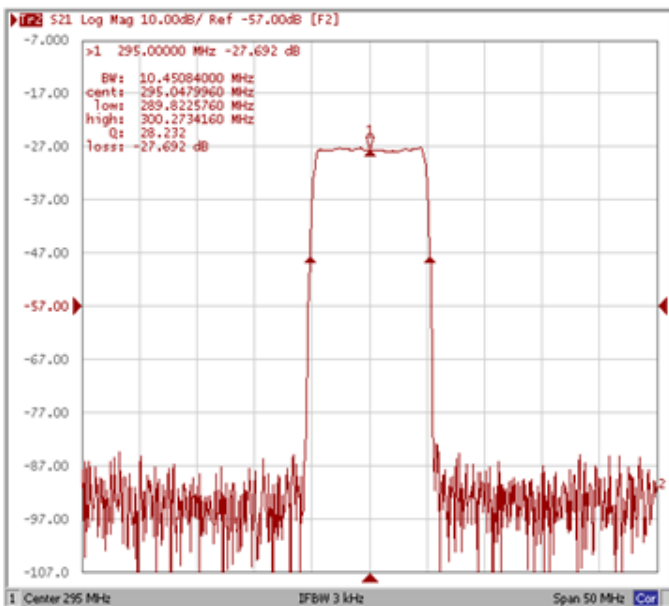
Bandwidth at -1.0 dB



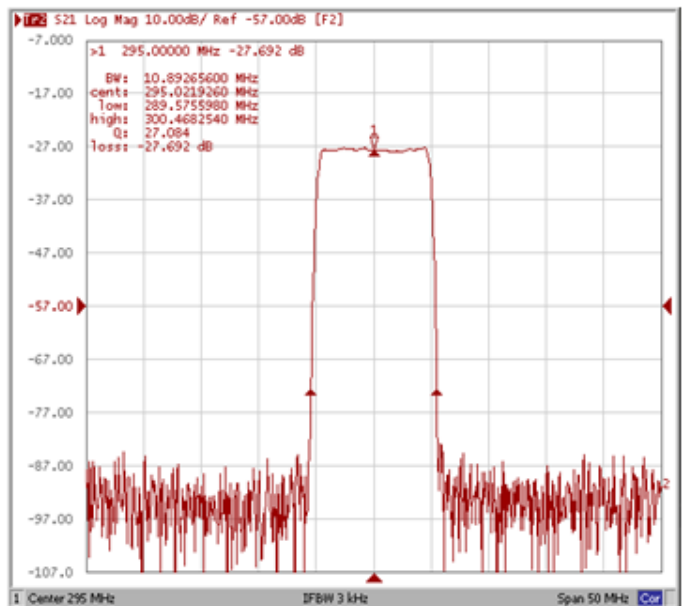
Bandwidth at -3.0 dB



Bandwidth at -20.0 dB

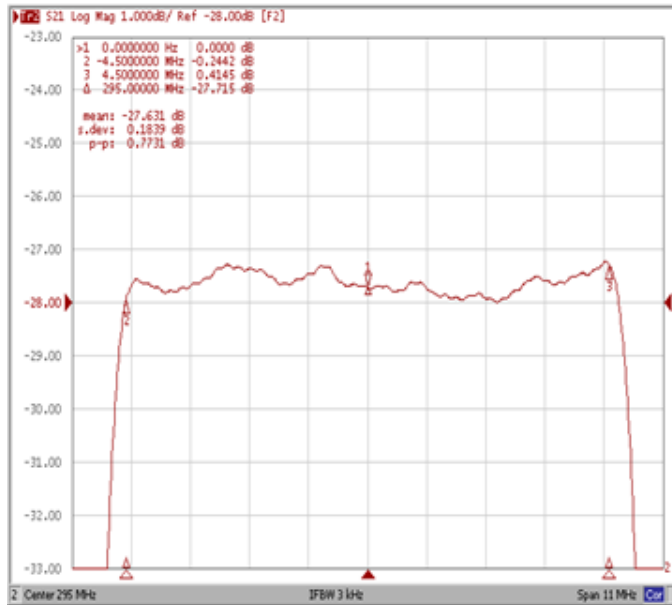


Bandwidth at -45.0 dB

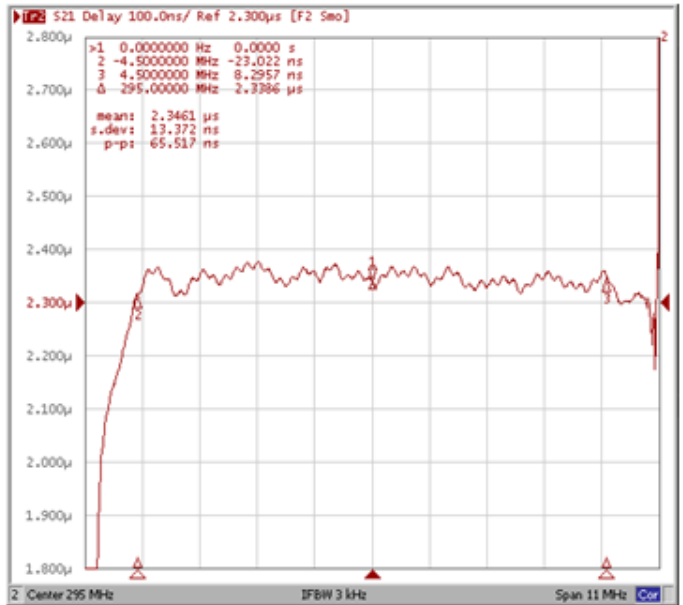


Frequency Response

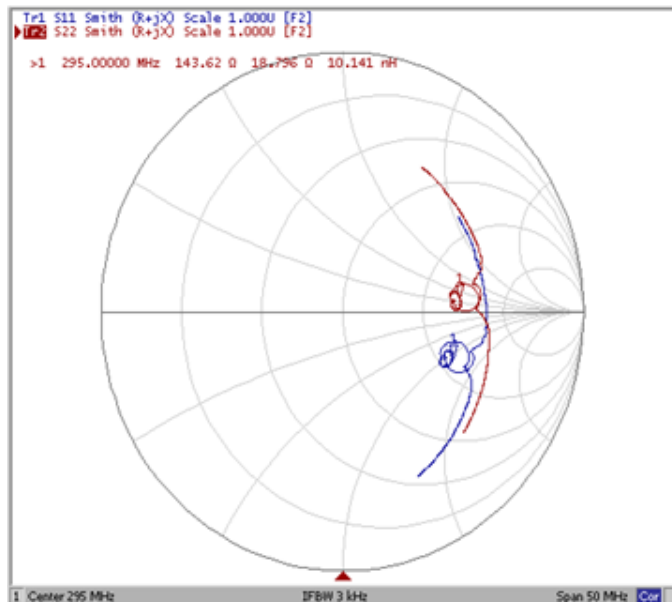
Ripple Variation Fo±4.5 MHz



Group Delay Variation Fo±4.5 MHz



Smith Chart



VSWR

