

- 120.0 MHz IF SAW Filter / 9.54 MHz Bandwidth
- Revision 0: 30. Oct. 2007

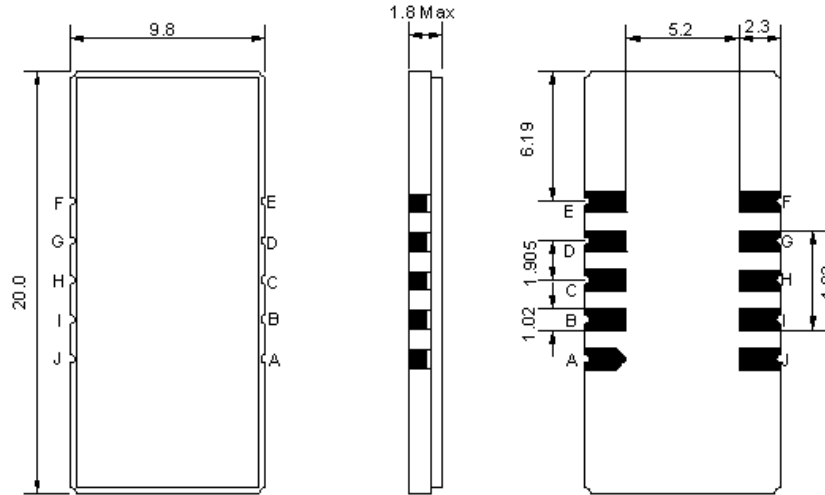
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-10	-	50
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	D1			
Length x Width	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	120.0	-
Insertion Loss at Fo	dB	-	24.4	26.0
Amplitude Ripple within fo ±4.4MHz	dB _{p-p}	-	0.6	1.0
Group Delay Variation within fo ±4.4 MHz	nsec	-	30	80
Absolute Delay at Fo	μsec	-	3.17	-
Temperature Coefficient	ppm/°C	-	-23	-
Bandwidth at -1.0 dB	MHz	9.0	9.24	-
Bandwidth at -3.0 dB	MHz	-	9.54	-
Bandwidth at -10.0 dB	MHz	-	10.01	10.1
Bandwidth at -25.0 dB	MHz	-	10.5	11.7
Bandwidth at -40.0 dB	MHz	-	10.75	-
Lower Sidelobe	dB	50	56	-
Upper Sidelobe	dB	50	56	-

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.

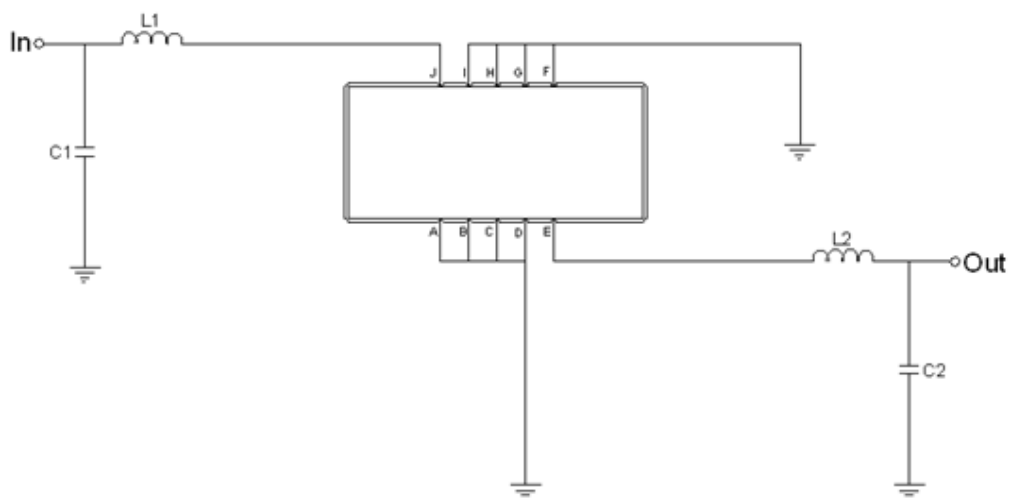
Package Dimensions



Pin Description

Pin Description	
A, B, C, D, F, G, H, I	Ground
J	Input
E	Output

Testing Environment



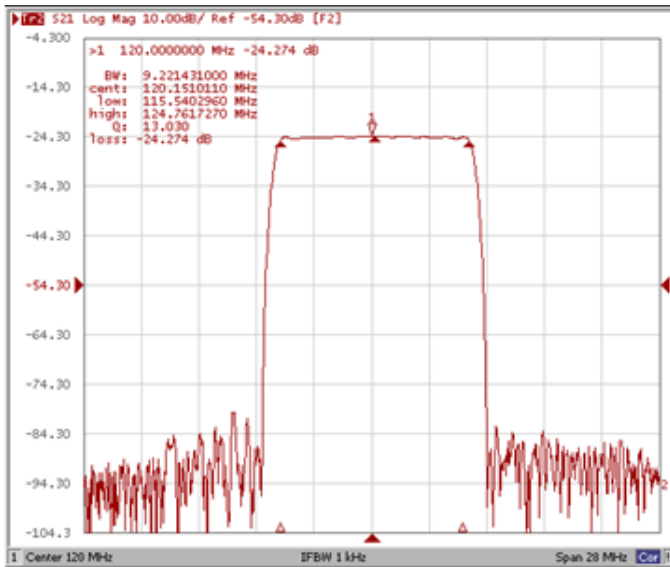
Test Fixture & Values

Test Fixture & Values	
Input	L1= 56 nH, C1= 43 pF
Output	L2= 56 nH, C2= 43 pF
Source/Load Impedance	50 Ω

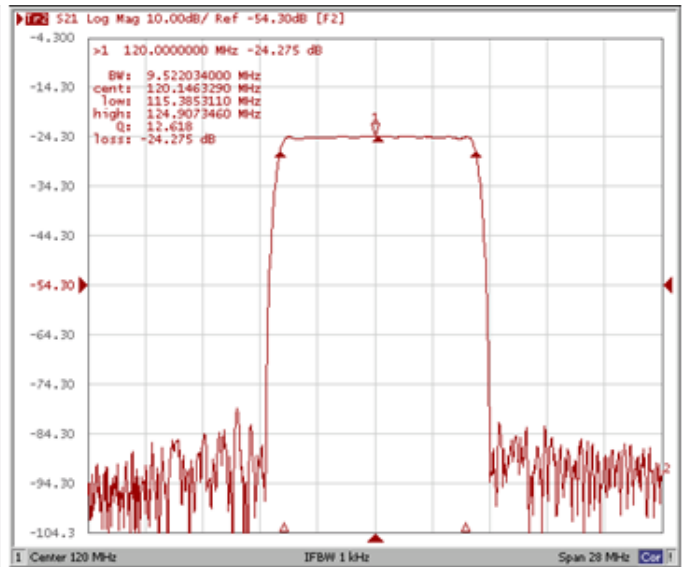
Frequency Characteristics

Frequency Response

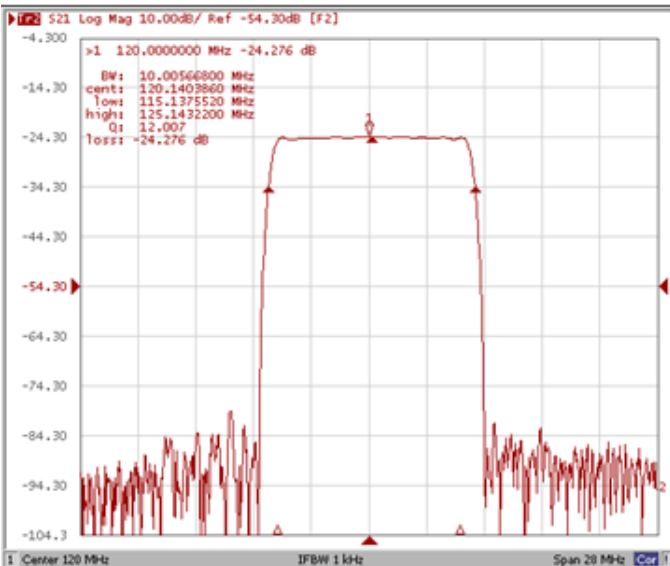
Bandwidth at -1.0 dB



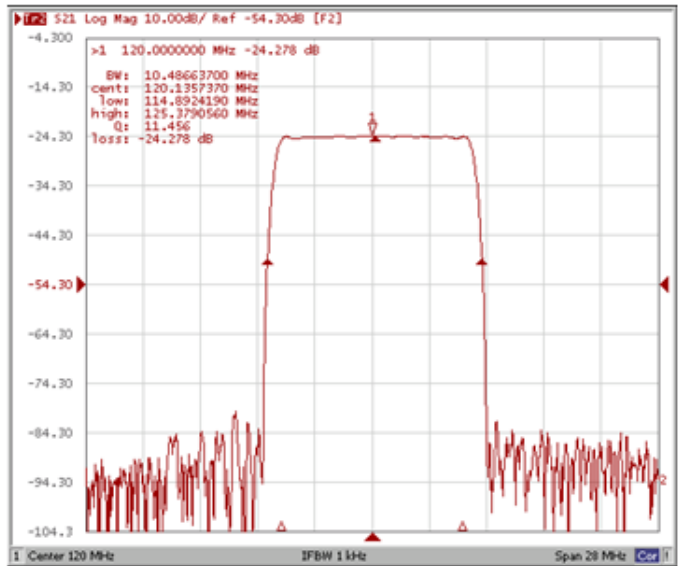
Bandwidth at -3.0 dB



Bandwidth at -10.0 dB

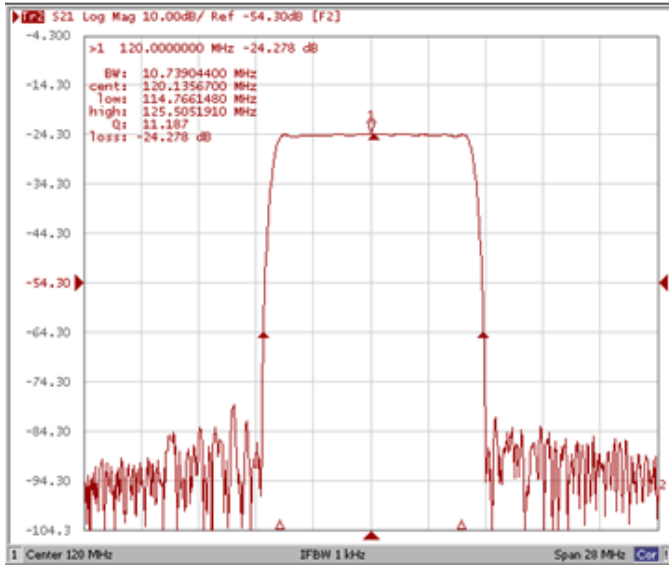


Bandwidth at -25.0 dB

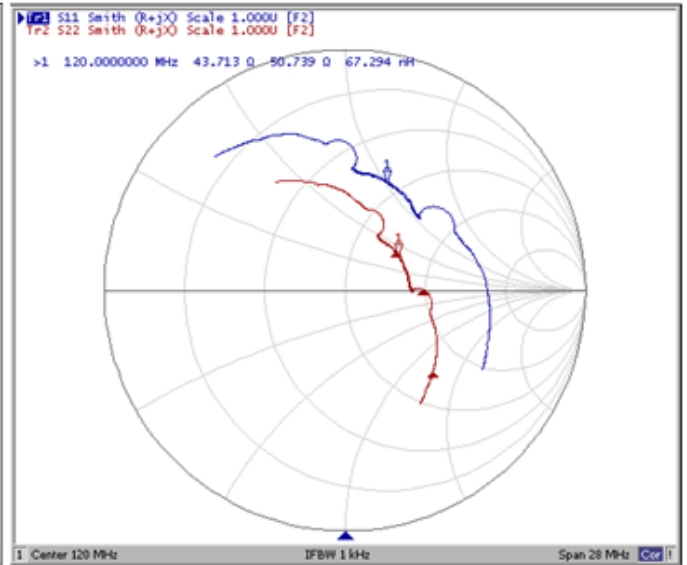


Frequency Response

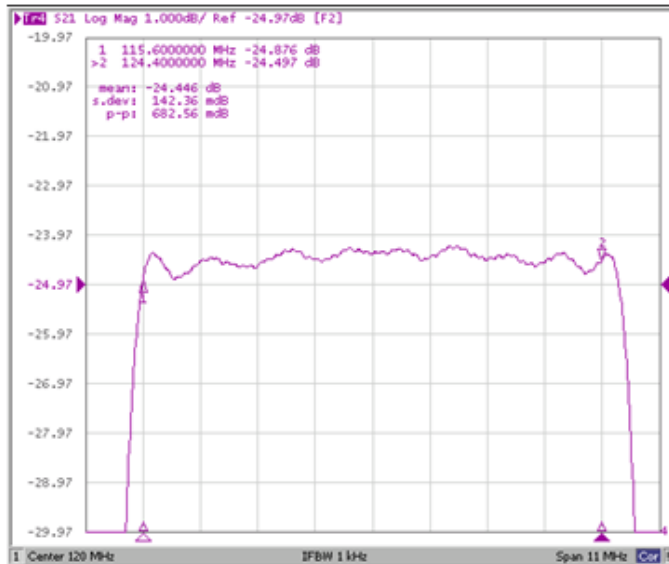
Bandwidth at -40.0 dB



Smith Chart



Ripple



Group Delay Variation

