

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Package type & size	S1			
Length x Width	mm <sup>2</sup>	-	7.0 x 5.0	-
Height	mm	-	-	1.8

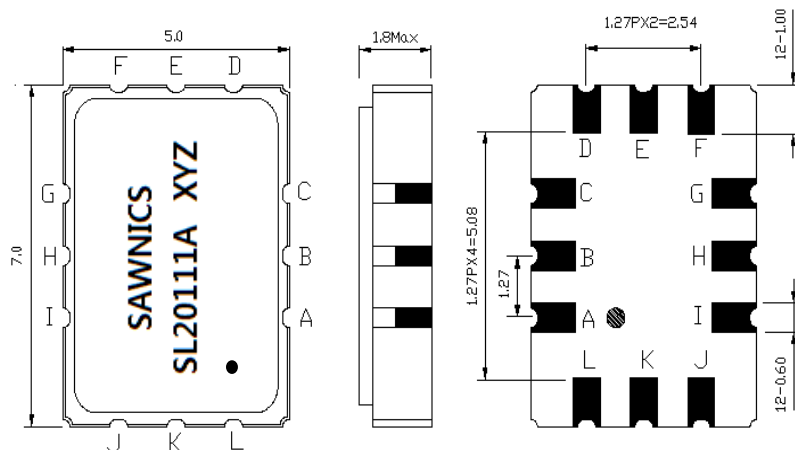
**Electrical Specification**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	200.75	201.0	201.25
Insertion Loss at Fo	dB	-	12.70	15.0
Amplitude Ripple Variation at Fo $\pm$ 4.5 MHz	dB <sub>p-p</sub>	-	0.3	0.8
Group Delay Variation at Fo $\pm$ 4.5 MHz	nsec	-	40	80
Absolute Delay at Fo	$\mu$ sec	-	0.69	-
Temperature Coefficient	ppm/°C	-	-18	-
Bandwidth at -1.0 dB	MHz	11.00	11.35	-
Bandwidth at -3.0 dB	MHz	-	12.50	-
Bandwidth at -40.0 dB	MHz	-	16.75	17.20
<b>Relative Attenuation</b>				
Lower Sidelobe	dB	40	50	-
Upper Sidelobe	dB	40	50	-

**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

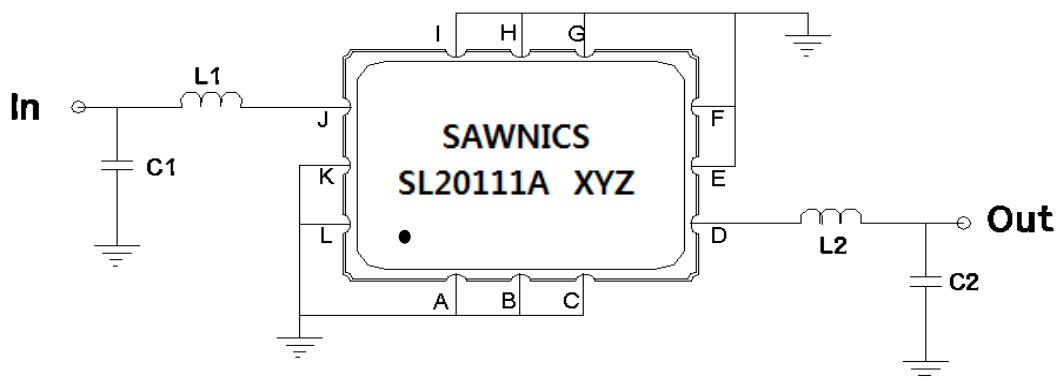
Those impedances could be modified with different impedance values and/or structures, if necessary.

## Package Dimensions



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

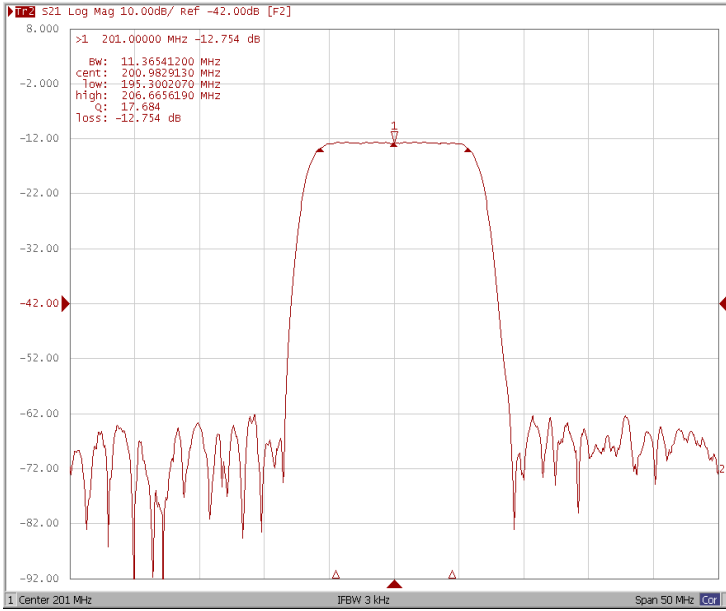
## Testing Environment



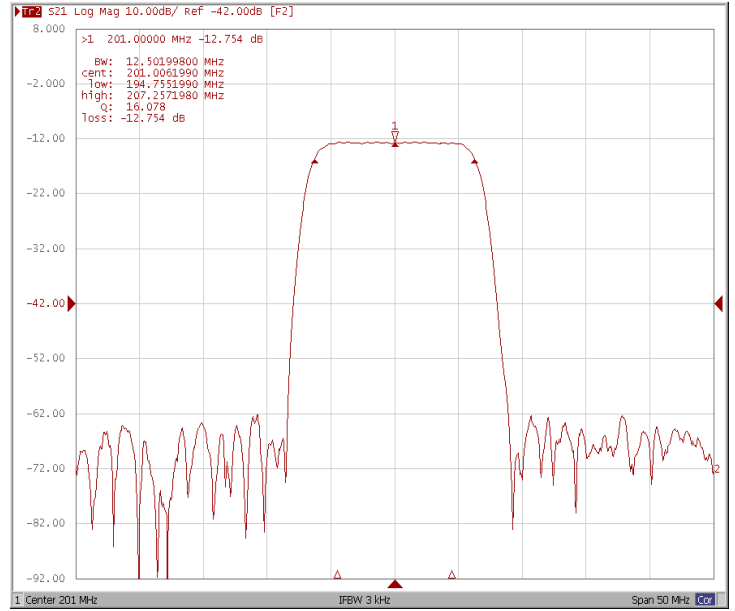
Test Fixture & Values	
Input	L1=33 nH , C1=33 pF
Output	L1=33 nH , C2=33 pF
Source/Load Impedance	50 $\Omega$

## Frequency Response

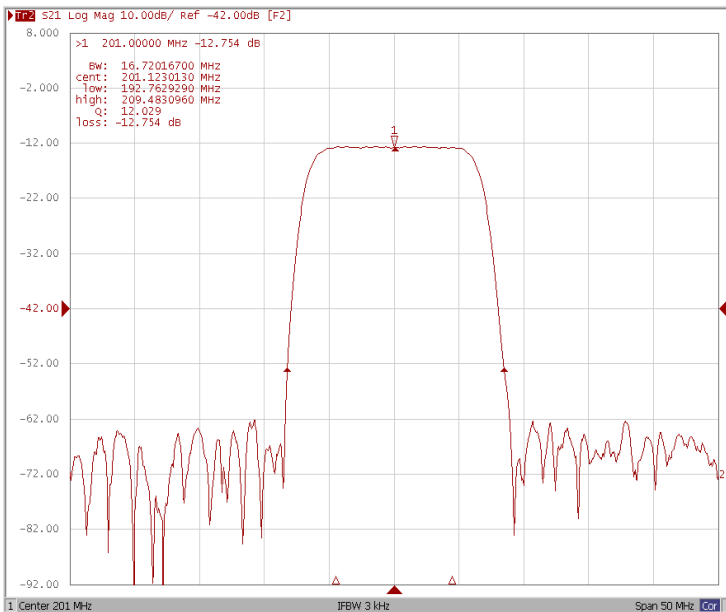
Bandwidth at -1.0 dB



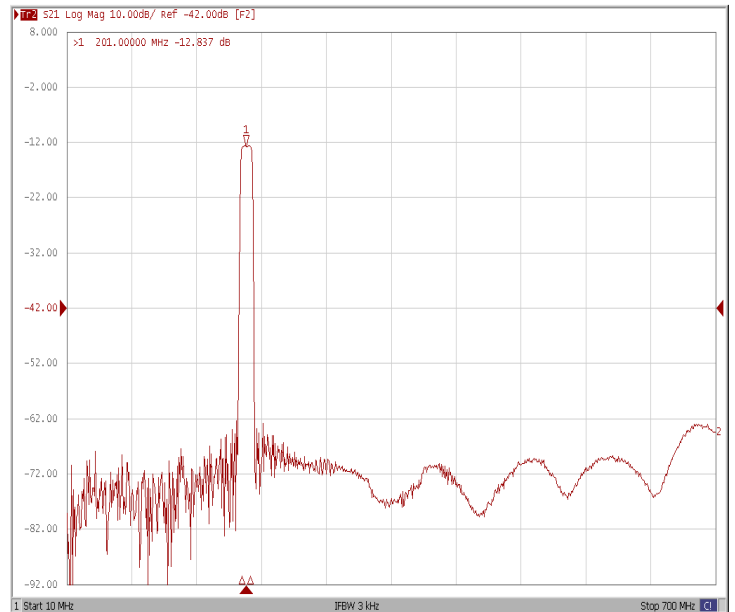
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

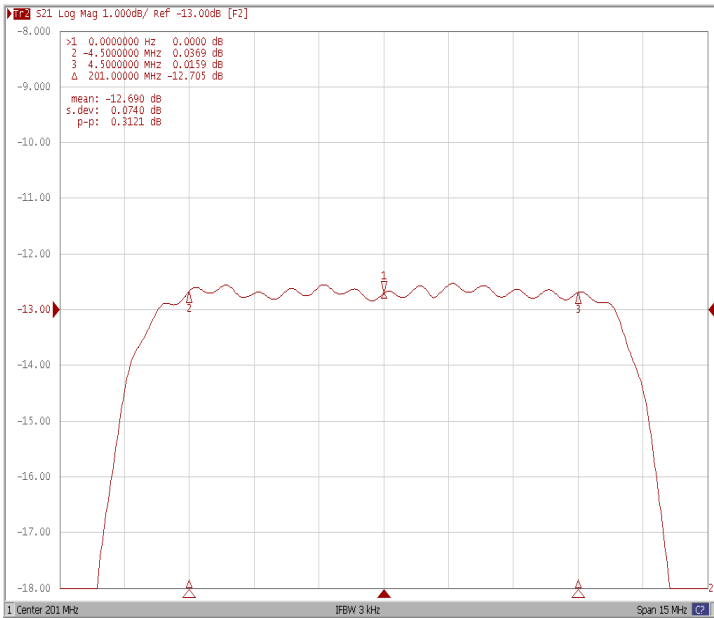


Wide-Band

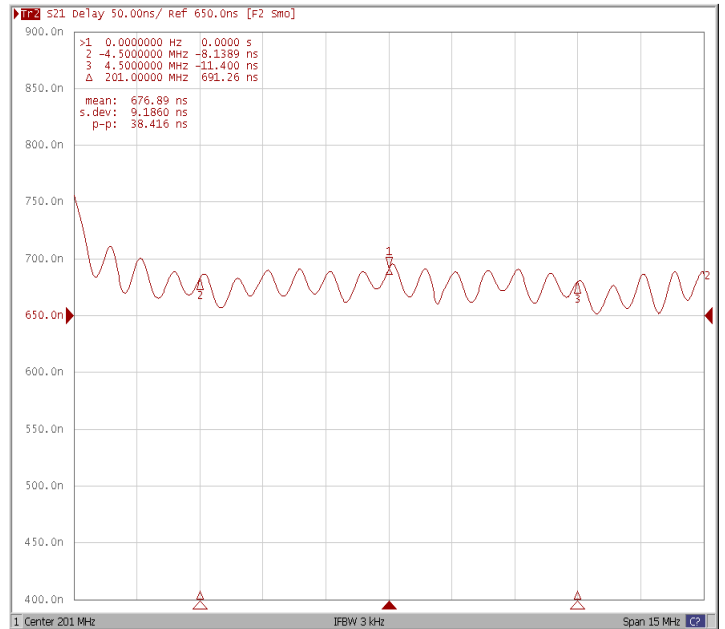


## Frequency Response

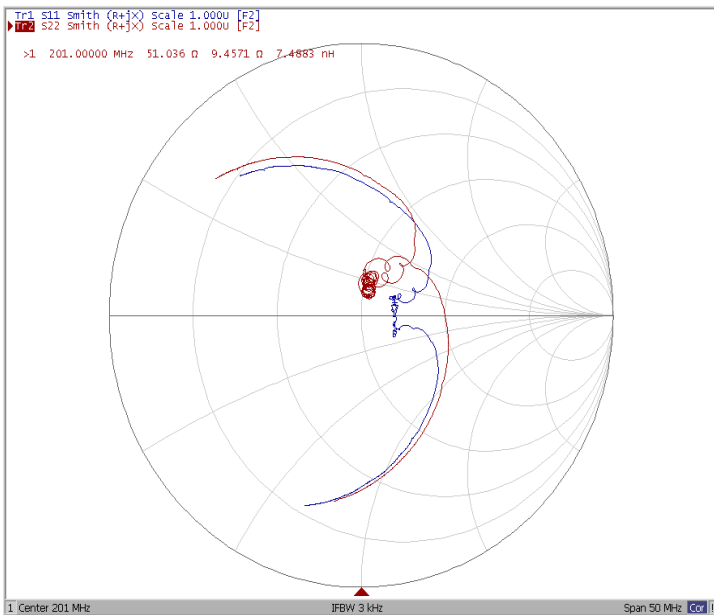
### Ripple Variation Fo±4.5MHz



### Group Delay Variation Fo±4.5MHz



### Smith Chart



### Attenuation

