

## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	70
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

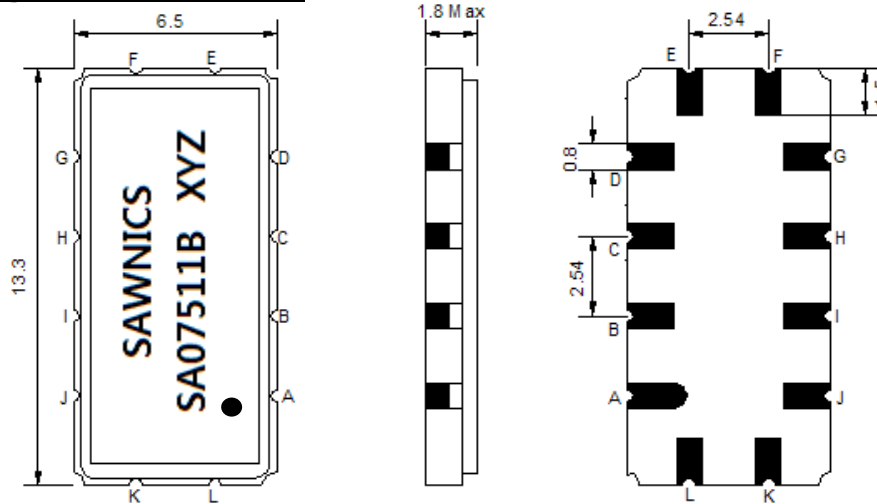
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	22.0	24.0
Temperature Coefficient	ppm/°C	-	-72	-
Amplitude Ripple within fo ±5.5 MHz	dB <sub>p-p</sub>	-	0.45	1.0
Group Delay Variation within fo ±5.5 MHz	nsec	-	45	80
Absolute Delay at Fo	μsec	-	1.55	-
Bandwidth at -1.0 dB	MHz	11.70	11.90	-
Bandwidth at -3.0 dB	MHz	-	12.42	-
Bandwidth at -40.0 dB	MHz	-	14.55	-
Relative Attenuation:				
Fo ±7.5 MHz	dB	45	55	
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-

**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.

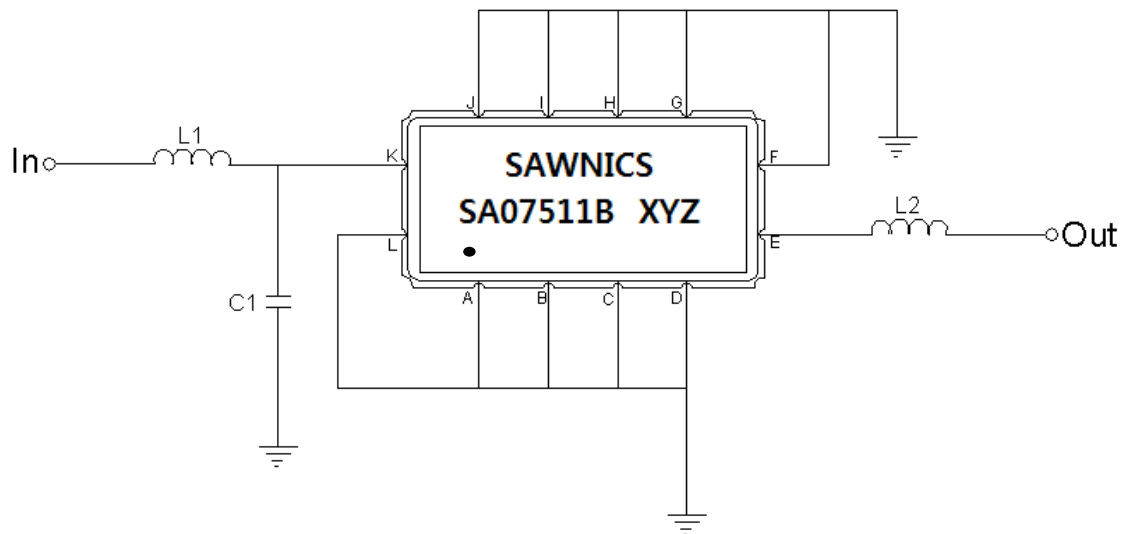
## Package Dimensions



- ① SAWNICS: Brand
  - ② SA07511B: Model Name
  - ③ X : Date Code (Year)
  - ④ Y : Date Code (Month)
  - ⑤ Z : Date Code (Date)
- : Index Dot

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

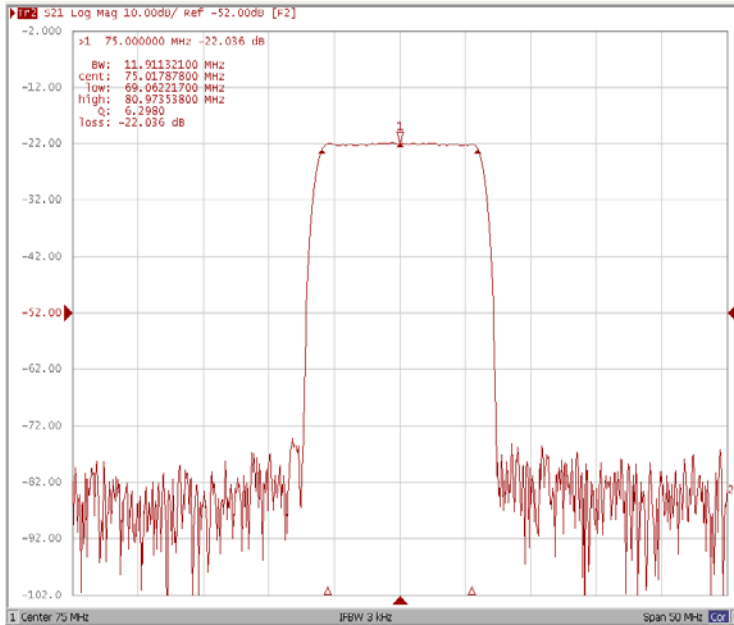
## Testing Environment



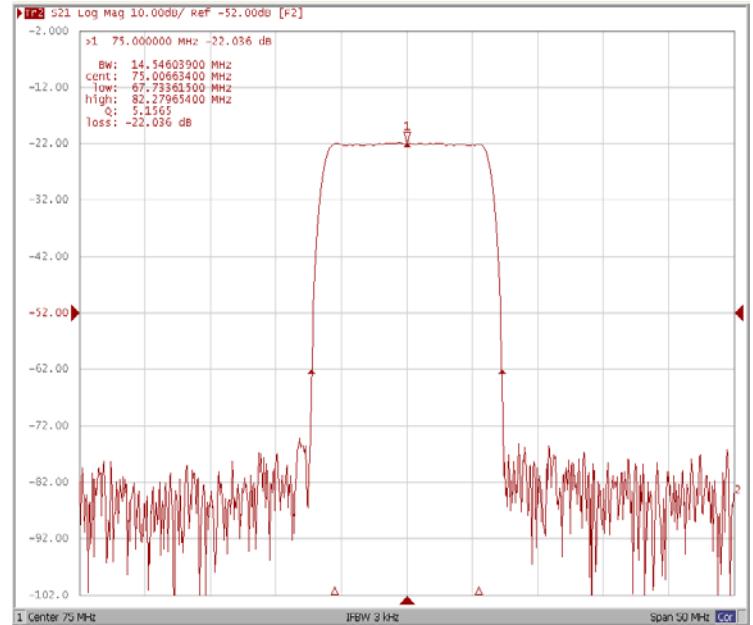
Test Fixture & Values	
Input	L1=100nH, C1=20pF
Output	L2=100nH,
Source/Load Impedance	50 $\Omega$

## Frequency Response

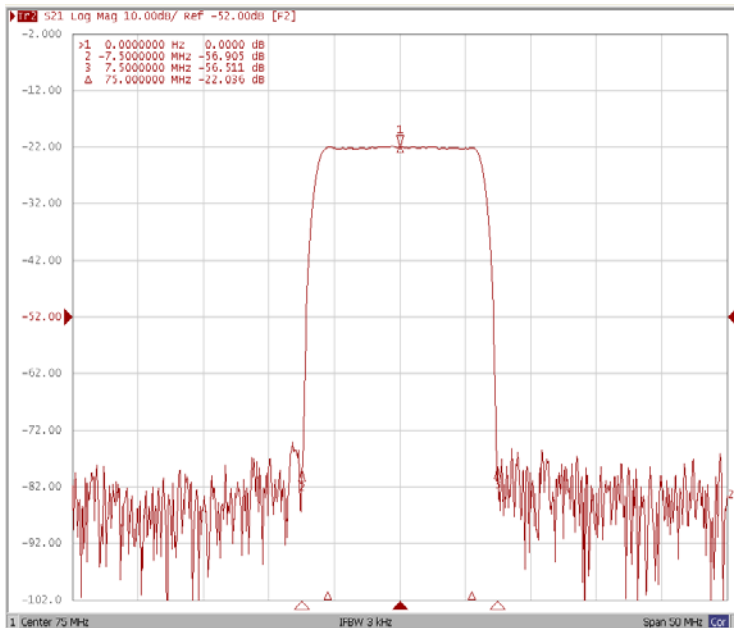
Bandwidth at -1.0 dB



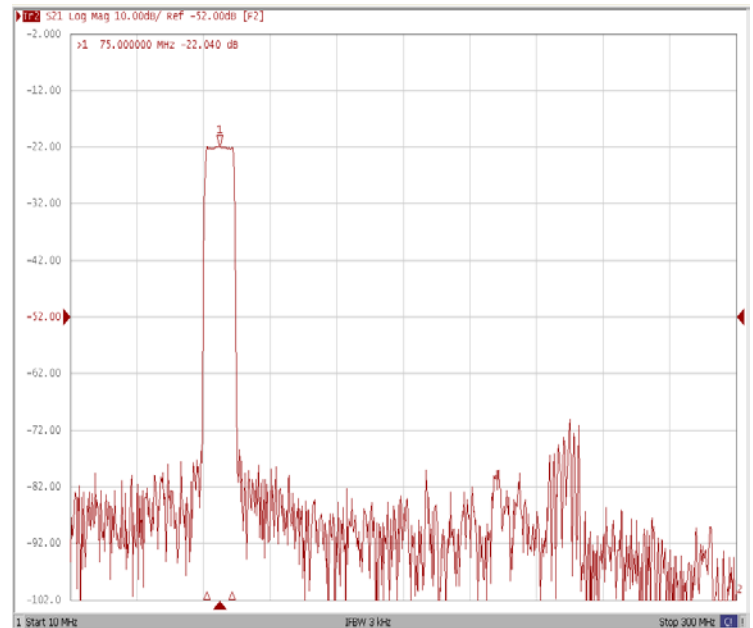
Bandwidth at -40.0 dB



Attenuation  $F_o \pm 7.5$  MHz

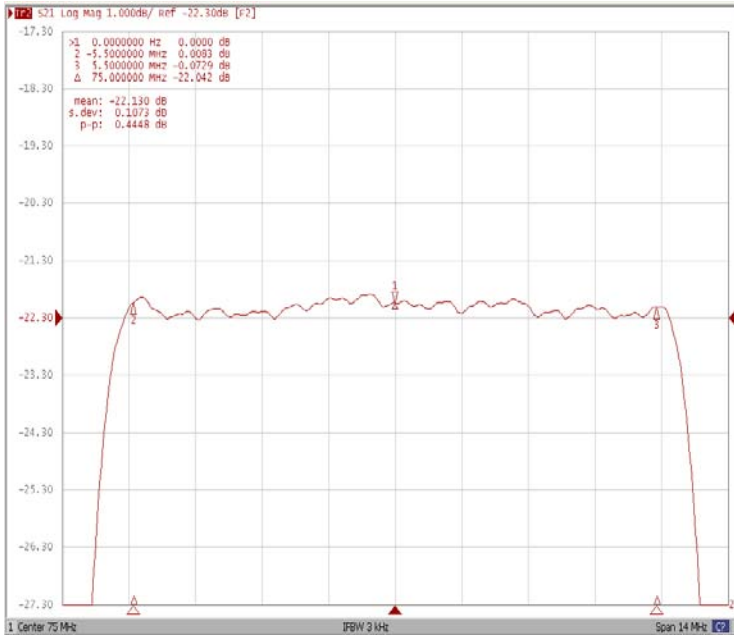


Wide-Band

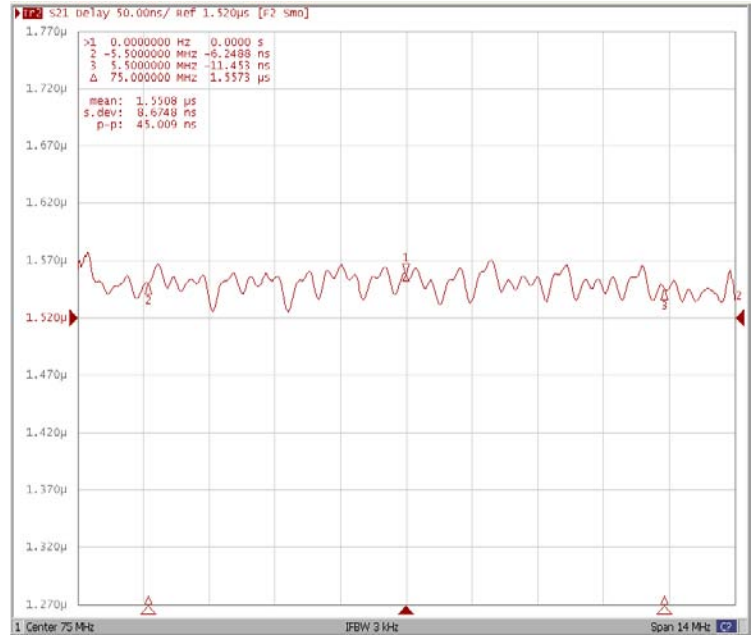


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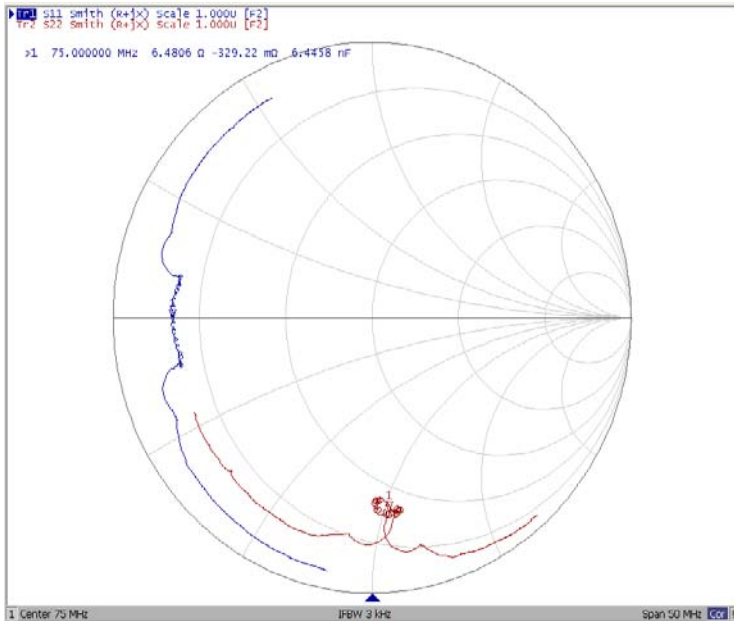
### Ripple Variation Fo±5.5MHz



### Group Delay Variation Fo±5.5MHz



### Smith Chart



### SWR

