

## Maximum Ratings

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) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	T			
Length x Width	mm <sup>2</sup>	-	9.1 x 4.8	-
Height	mm	-	1.5	-

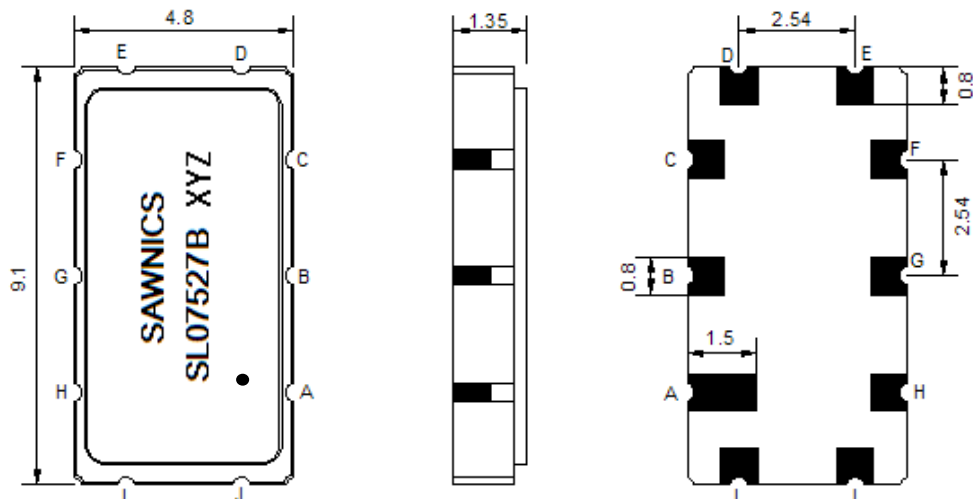
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	17.0	18.0
Amplitude Ripple Variation at Fo ± 12.5 MHz	dB <sub>p-p</sub>	-	0.3	0.6
Group Delay Variation at Fo ± 12.5 MHz	nsec	-	20	35
Absolute Delay at Fo	µsec	-	0.83	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -1.0 dB	MHz	-	27.20	-
Bandwidth at -3.0 dB	MHz	-	28.20	-
Bandwidth at -30.0 dB	MHz	-	32.40	33.0
Relative Attenuation				
Lower Sidelobe	dB	30	40	-
Upper Sidelobe	dB	30	40	-

**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.

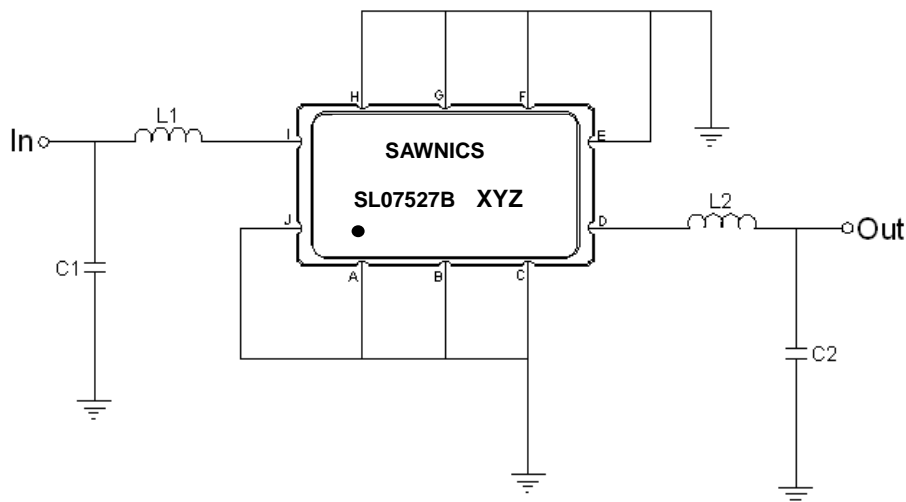
## Package Dimensions



- ① SAWNICS: Brand
- ② SL07527B: Model Name
- ③ X : Date Code (Year)
- ④ Y : Date Code (Month)
- ⑤ Z : Date Code (Date)
- : Index Dot

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

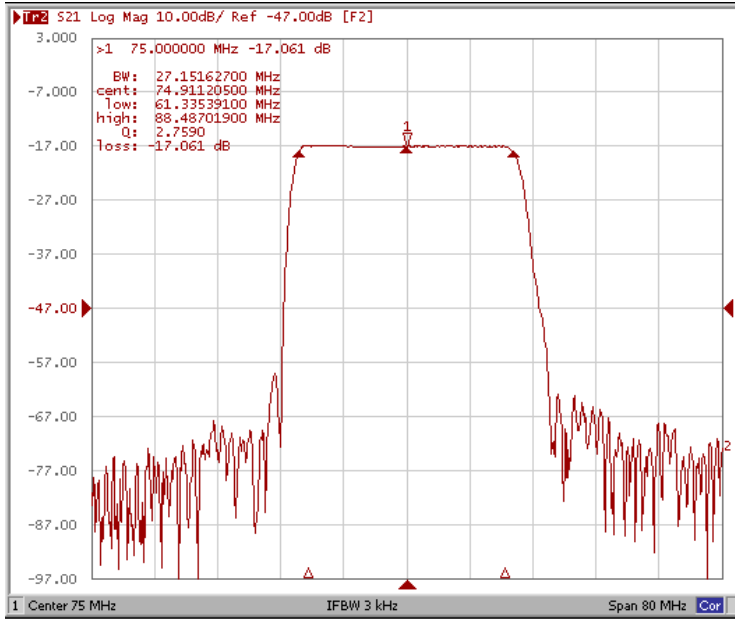
## Testing Environment



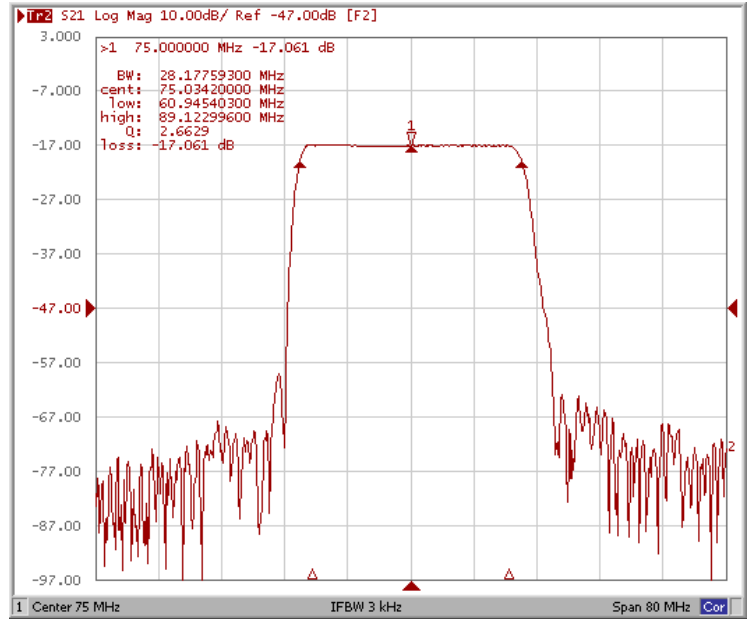
Test Fixture & Values	
Input	L1=120 nH , C1=33 pF
Output	L2=150 nH, C2=20 pF
Source/Load Impedance	50 $\Omega$

## Frequency Response

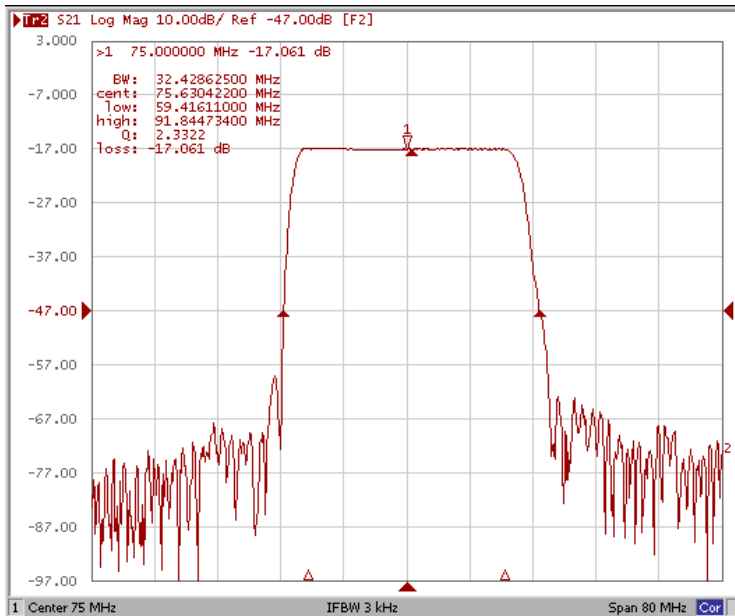
Bandwidth at -1.0 dB



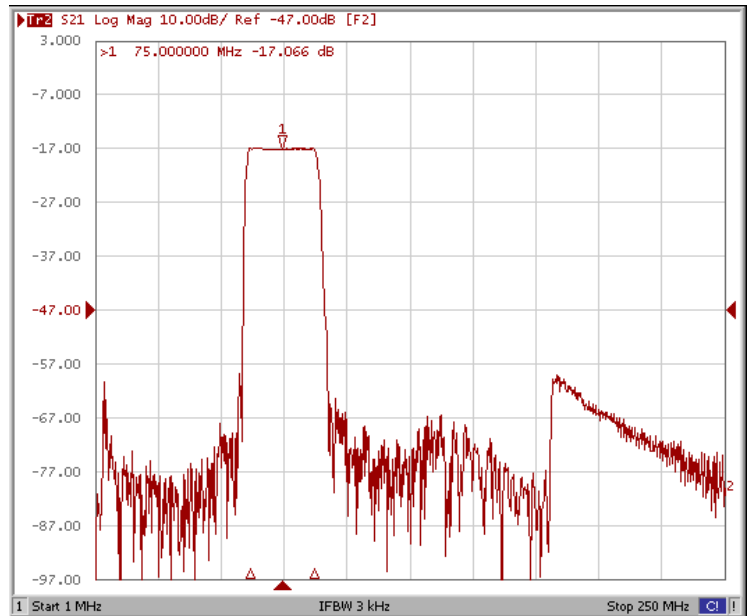
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB

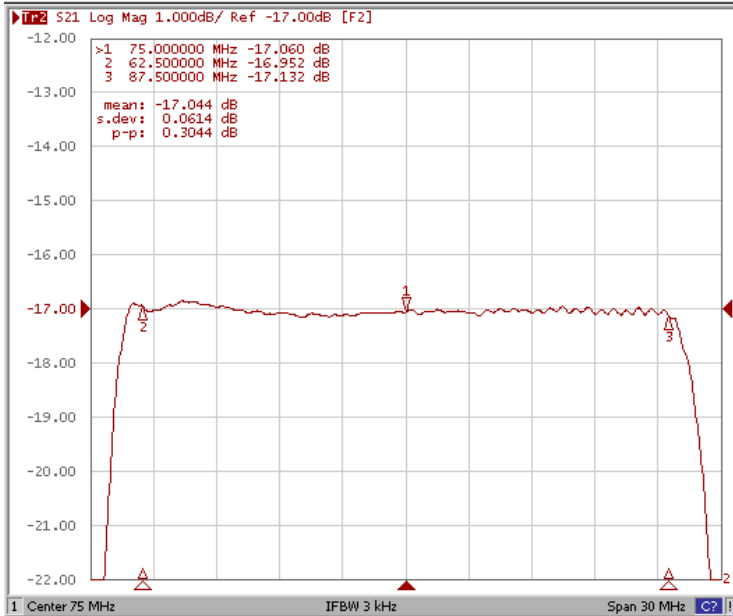


Wide-Band

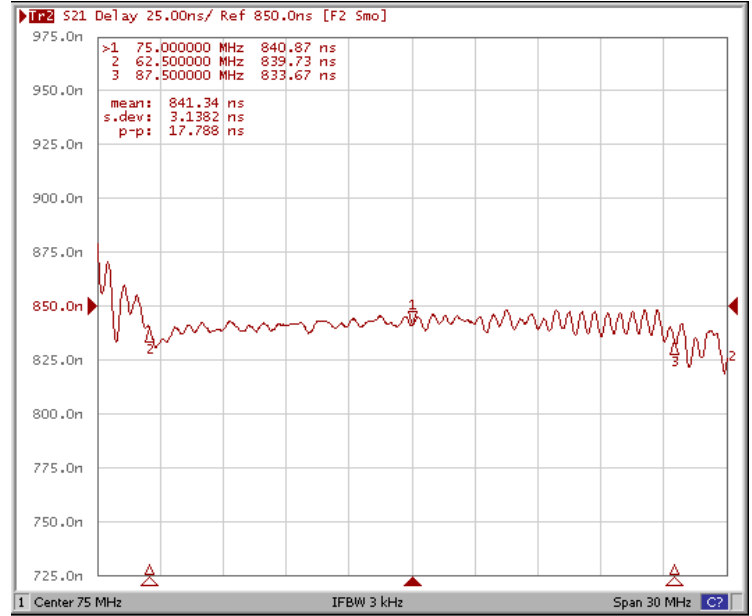


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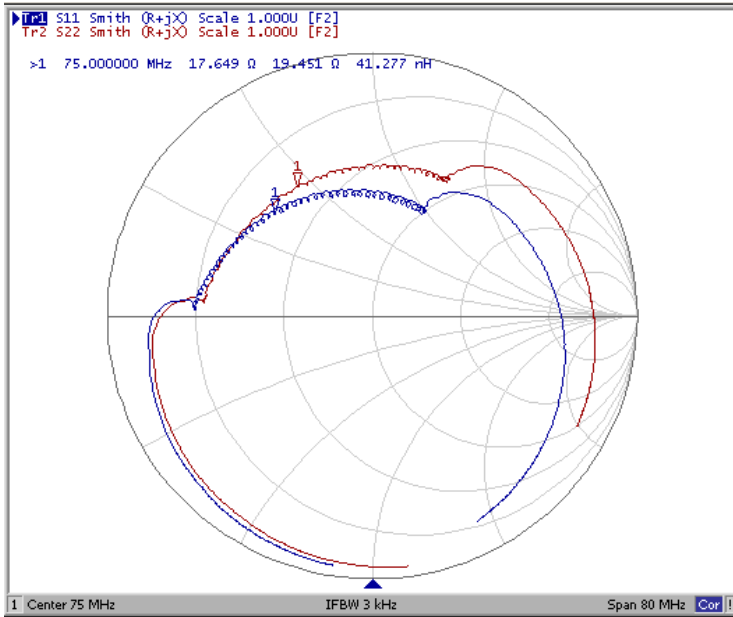
### Ripple Variation Fo±12.5MHz



### Group Delay Variation Fo±12.5MHz



### Smith Chart



### SWR

