



*Total Solution Provider in Saw Device*

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# SL09519AV

95.0 MHz IF SAW Filter  
19.42 MHz Bandwidth  
Revision 0 : 6. AUG. 2008.



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- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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## □ Electrical Characteristics

### Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating 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	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

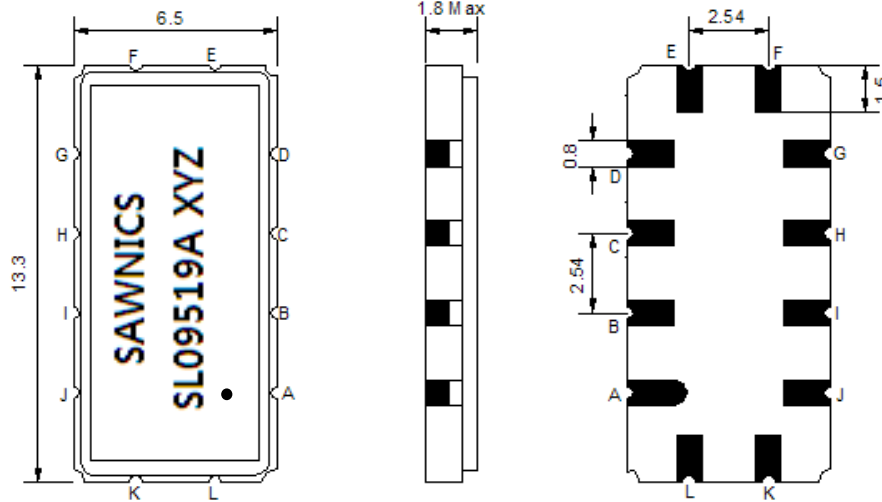
### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	95.0	-
Insertion Loss at Fo	dB	-	14.80	16.00
Temperature Coefficient	ppm/°C	-	-86	-
Passband Ripple (fo ±9.50 MHz)	dB <sub>p-p</sub>	-	0.50	0.90
Group Delay Variation (fo ±9.50 MHz)	nsec	-	75	120
Absolute Delay at Fo	µsec	-	1.14	-
Bandwidth at -1.0 dB	MHz	-	19.42	-
Bandwidth at -3.0 dB	MHz	19.90	20.15	-
Bandwidth at -40.0 dB	MHz	-	23.25	23.60
Ultimate Rejection	dB	40	45	-

**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.

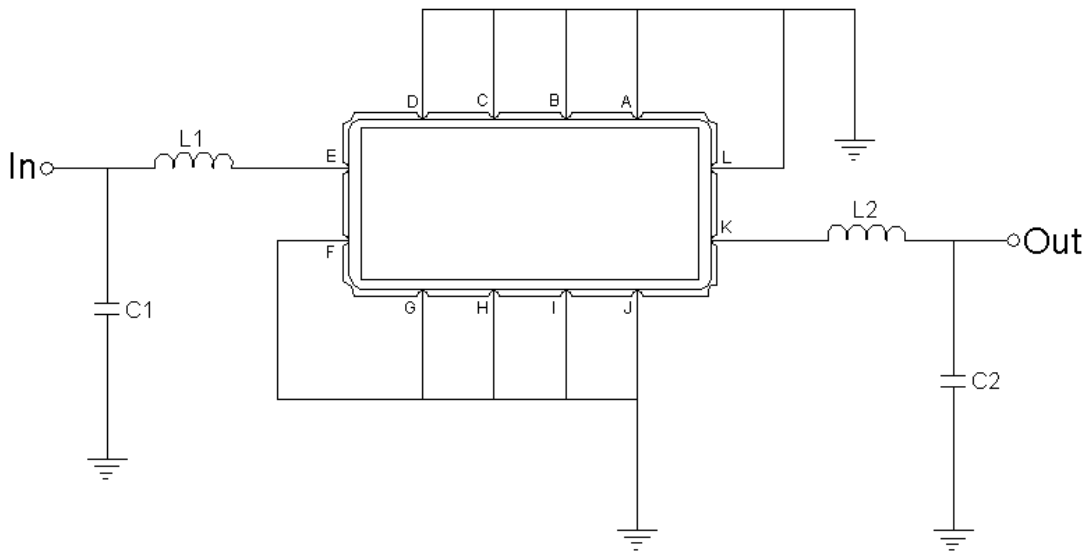
### Package Dimensions



- ① SAWNICS: Brand
- ② SL09519A: 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
E	Input
K	Output

### Testing Environment



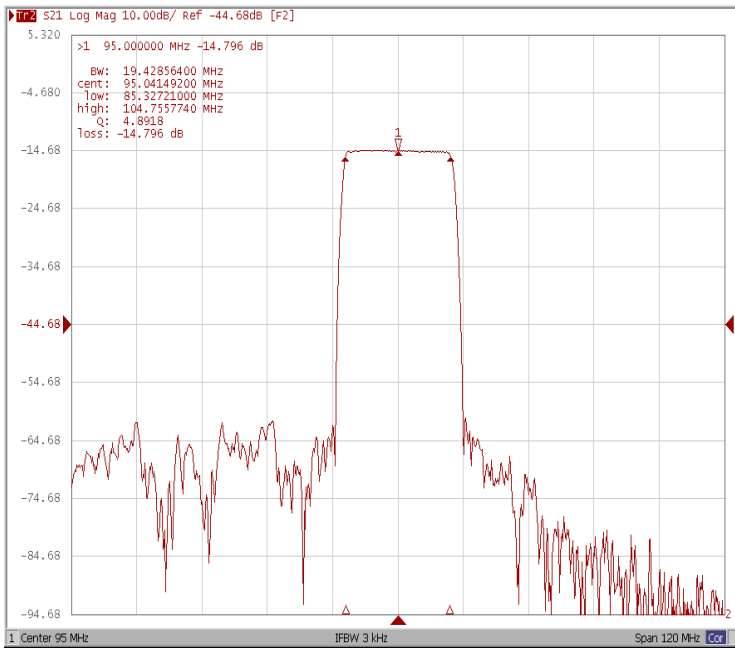
Test Fixture & Values	
Input	L1=150nH, C1=20p
Output	L2=120nH, C2=33p
Source/Load Impedance	50 Ω



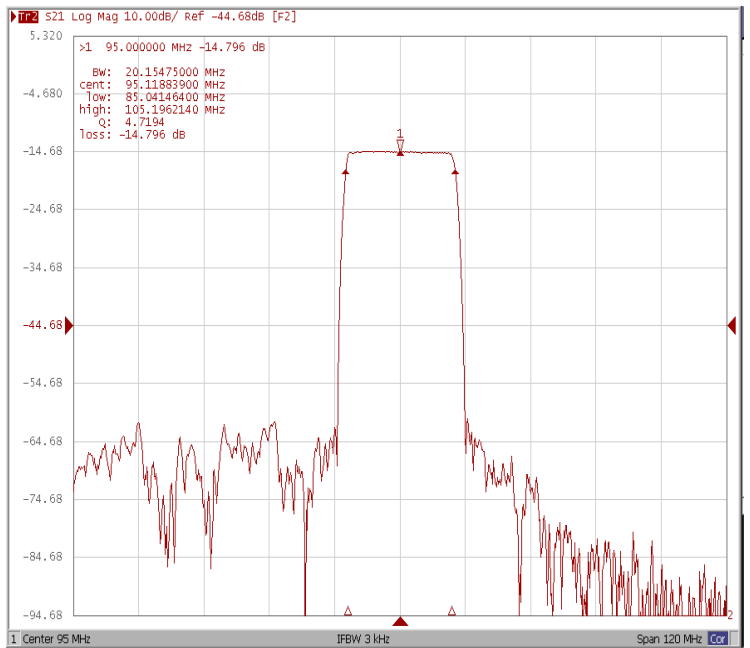
# Frequency Characteristics

## Frequency Response

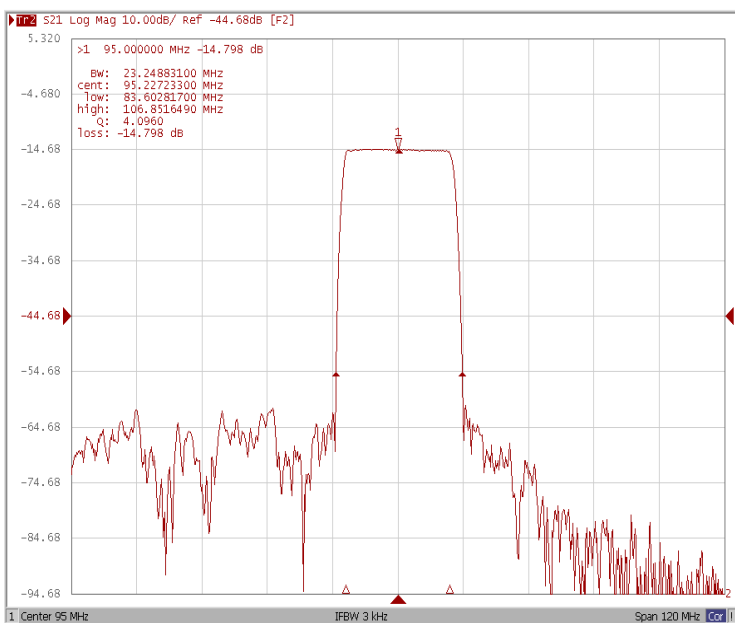
Bandwidth at -1.0 dB



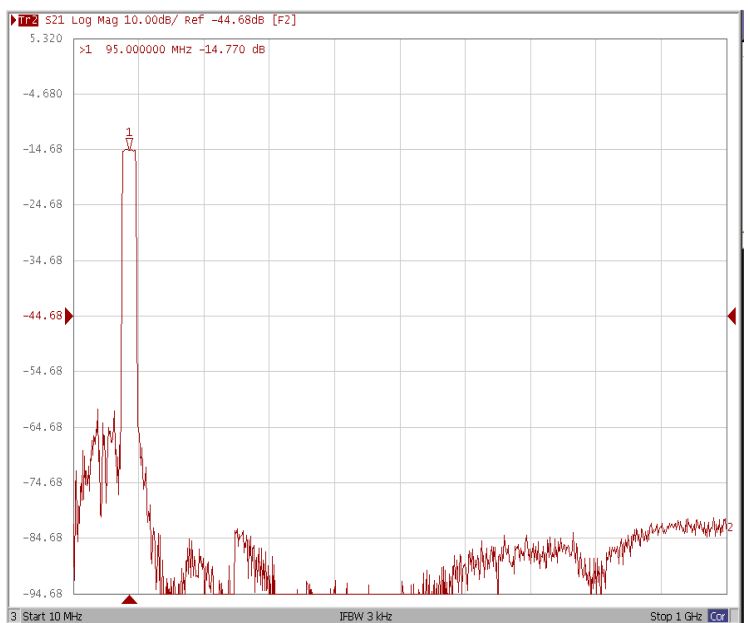
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Wide-Band



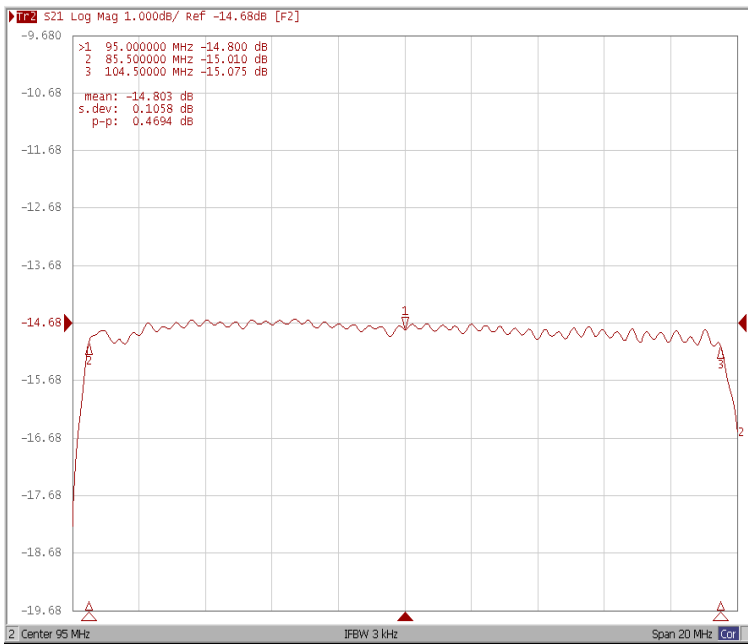


# Frequency Characteristics

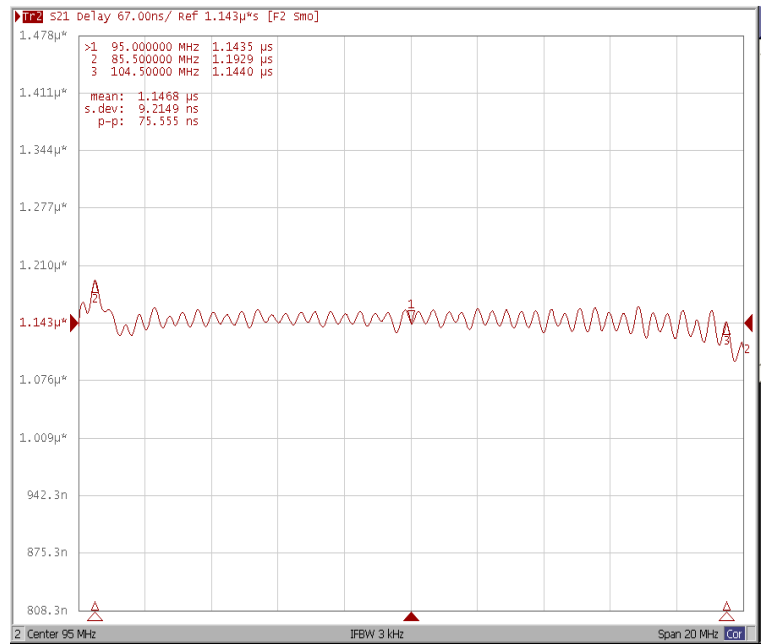
## Frequency Response

Ripple Variation Fo±9.5MHz

Group Delay Variation Fo±9.5MHz



Smith Chart



SWR

