SL19528AV

195.00 MHz IF SAW Filter
28.40 MHz Bandwidth
Revision 0: 30. September. 2011

RoHS compliance
Pb free

- ❒ Electrical Characteristics
- ❒ Package Dimensions
- ❒ Testing Environment
- ❒ Frequency Characteristics

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❒ Electrical Characteristics

Maximum Ratings

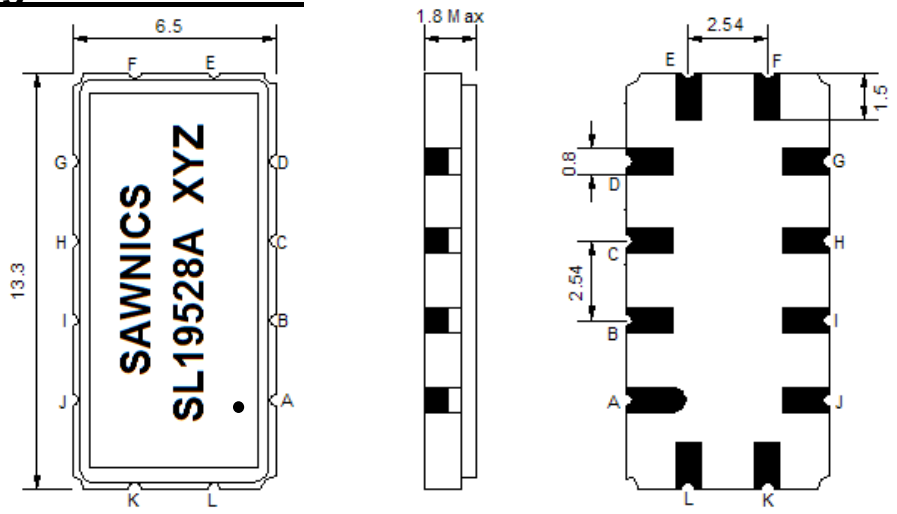
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-10	-	70
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	V			
Length x Width	mm²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	195.00	-
Insertion Loss at Fo	dB	-	12.00	14.00
Group Delay Variation at Fo ± 12.50 MHz	nsec	-	35	80
Absolute Delay at Fo	usec	-	0.71	0.80
Passband Ripple Variation at Fo ± 12.50 MHz	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	28.00	28.40	-
Bandwidth at -3dB	MHz	29.00	29.75	-
Bandwidth at -30dB	MHz	-	33.70	34.50
Ultimate Rejection				
Fo ± 35.00 MHz	dB	40	48	
Fo ± 40.00 MHz	dB	45	54	
Temperature Coefficient	ppm/°C	-	-86	-

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.

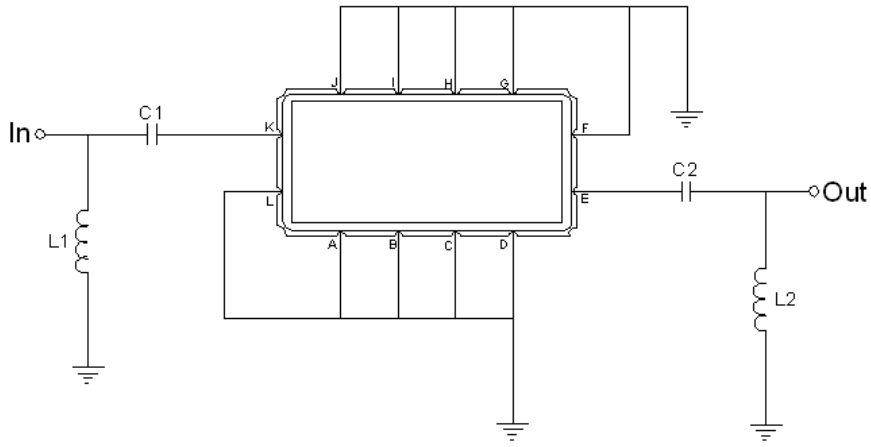
❒ Package Dimensions



① SAWNICS: Brand
② SL19528A: 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



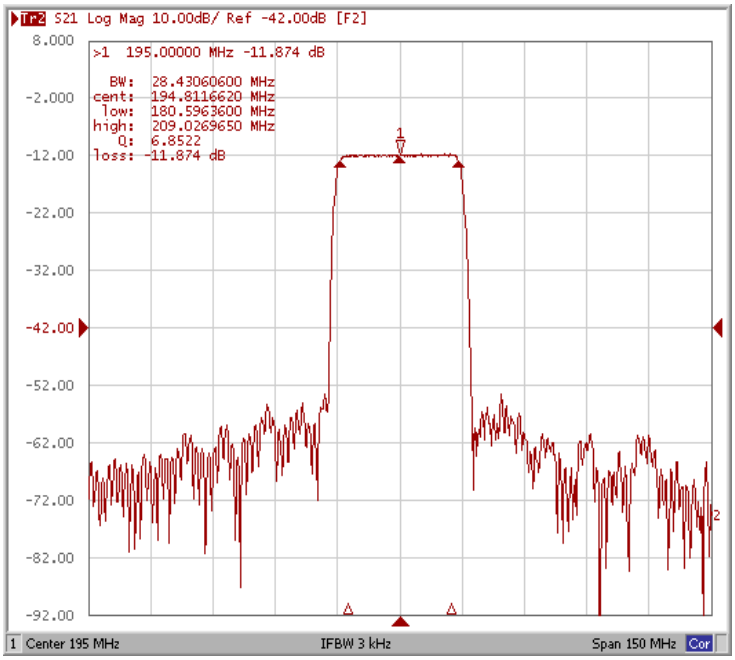
Test Fixture & Values	
Input	L1 = 33nH, C1=160pF
Output	L2 = 27nH, C2=160pF
Source/Load Impedance	50 Ω

❒ Frequency Characteristics

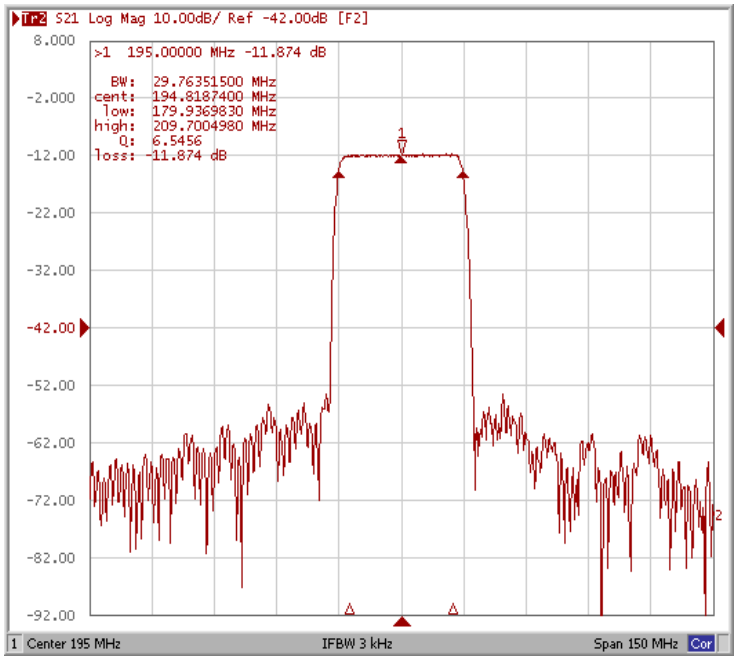
Frequency Response

Operating Temperature : +25 ℃

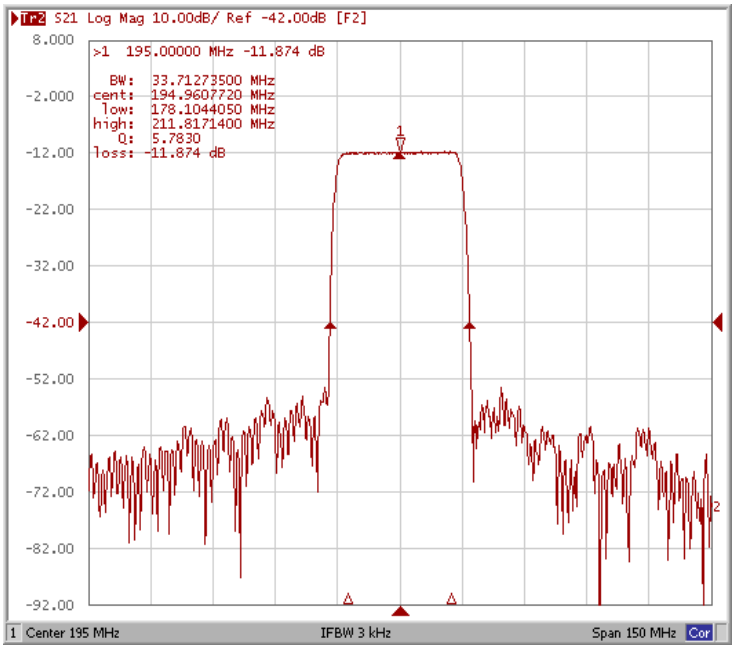
Bandwidth at –1.0 dB



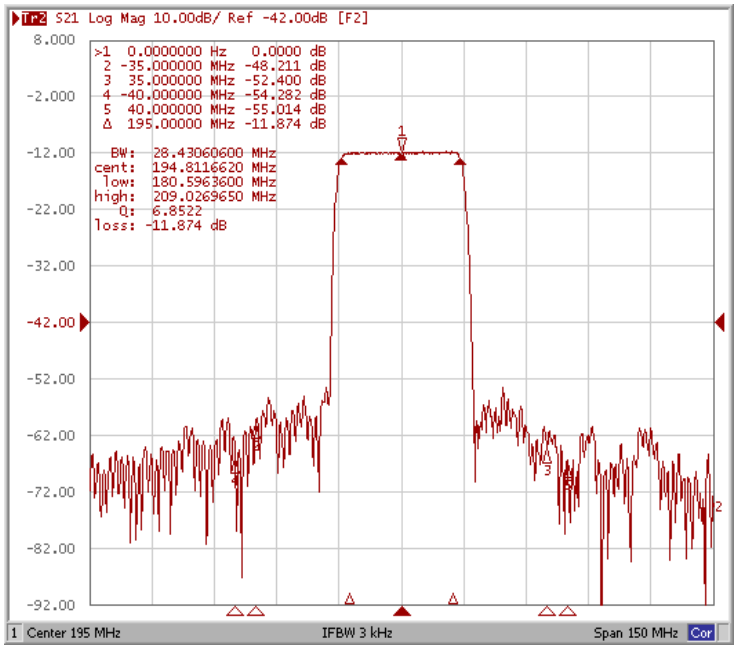
Bandwidth at –3.0 dB



Bandwidth at –30 dB



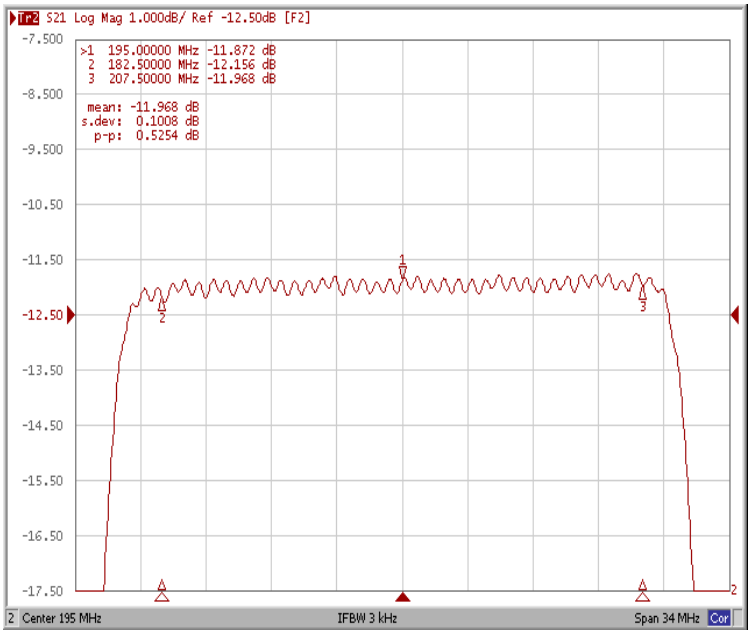
Attenuation Fo ± 35.00 MHz/ Fo ± 40.00 MHz



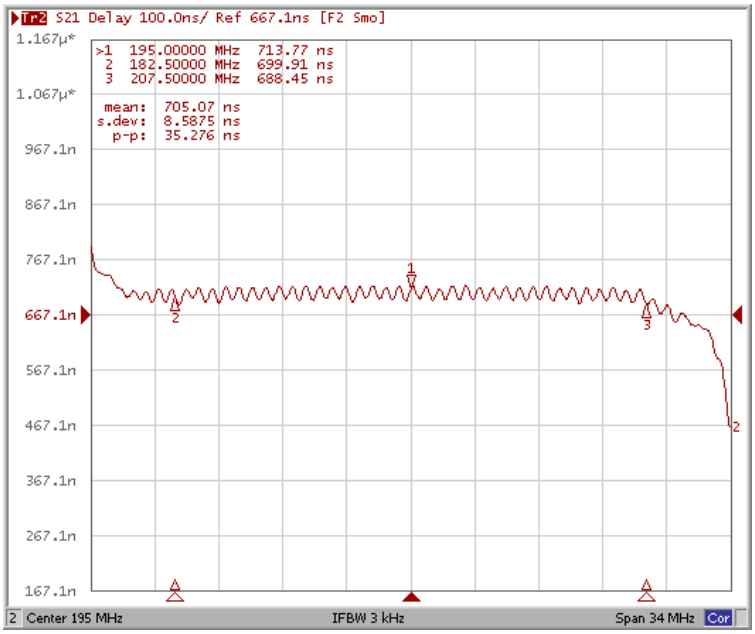
❒ Frequency Characteristics

Frequency Response

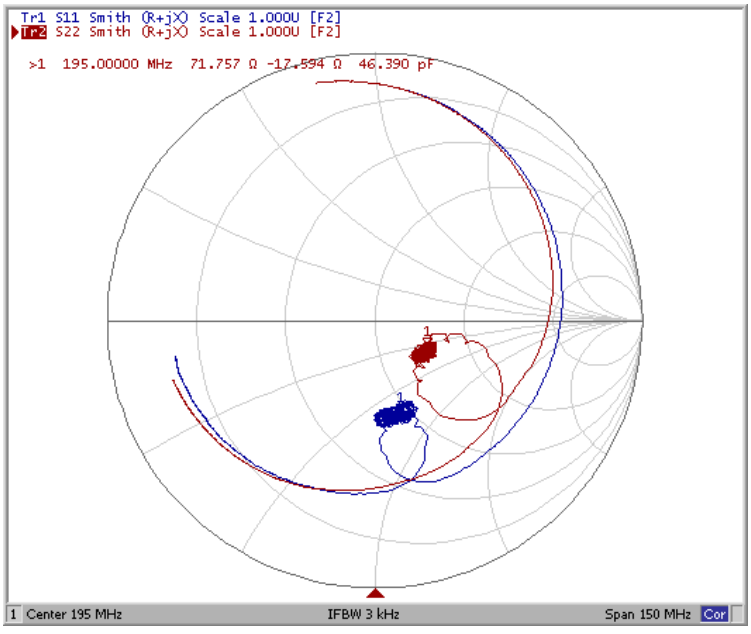
Ripple Variation Fo±12.50MHz



Group Delay Variation Fo±12.50MHz



Smith Chart



VSWR