



Total Solution Provider in Saw Device

SL09244AV

92.16MHz IF SAW Filter
44.04MHz Bandwidth
Revision 0 : 15. April. 2009



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

SAWNICS Inc.

460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com

□ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	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	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

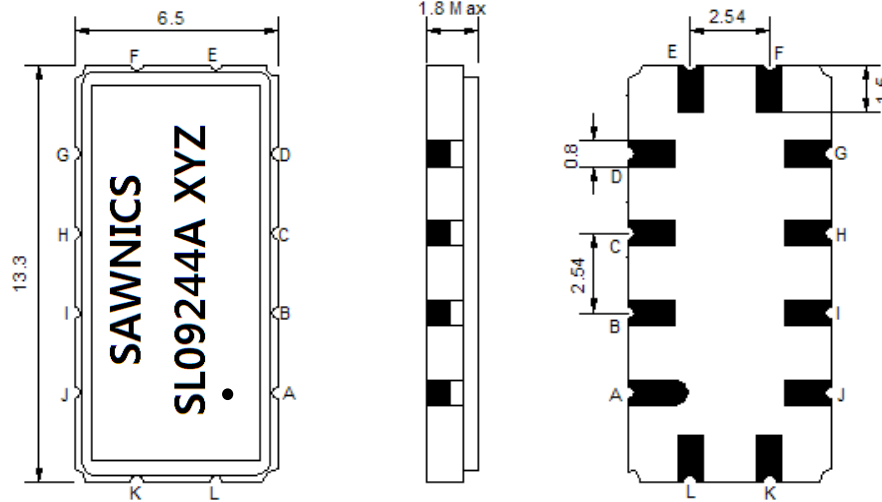
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	92.16	-
Insertion Loss at Fo	dB	-	20.0	22.0
Group Delay Variation (71.0MHz~113.0MHz)	ns	-	17	40
Absolute Delay Time at Fo	us	-	0.98	-
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple (71.0MHz~113.0MHz)	dB	-	0.50	0.90
Bandwidth at -1dB	MHz	43.50	44.04	-
Bandwidth at -40dB	MHz	-	49.60	50.50
Relative Attenuation				
@62.0MHz	dB	-	60	-
@121.0MHz	dB	-	55	-
Ultimate Rejection	dB	-	43	-

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.

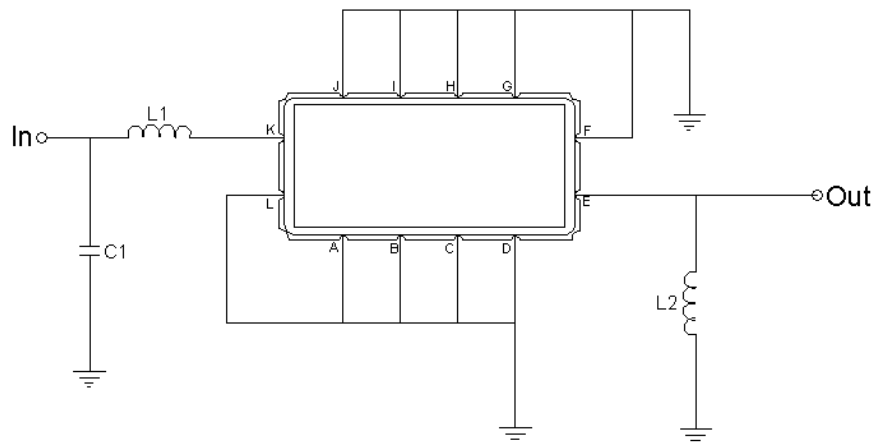
Package Dimensions



- ① SAWNICS: Brand
- ② SL09244A: 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



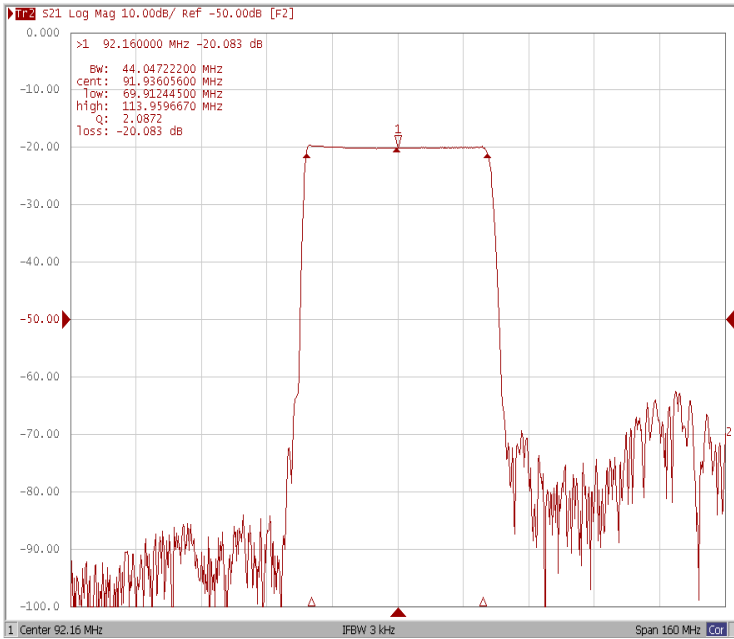
Test Fixture & Values	
Input	L1 = 82 nH, C1=22pF
Output	L2 = 68 nH
Source/Load Impedance	50 Ω



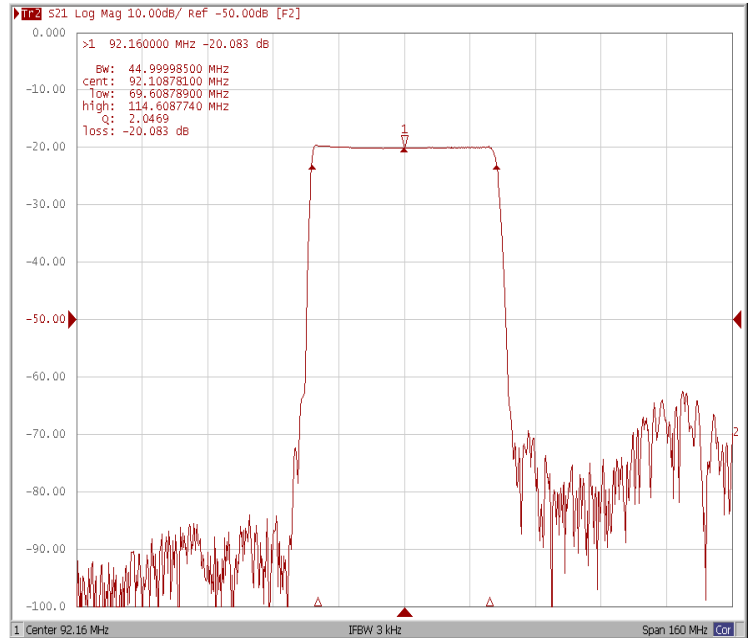
Frequency Characteristics

Frequency Response

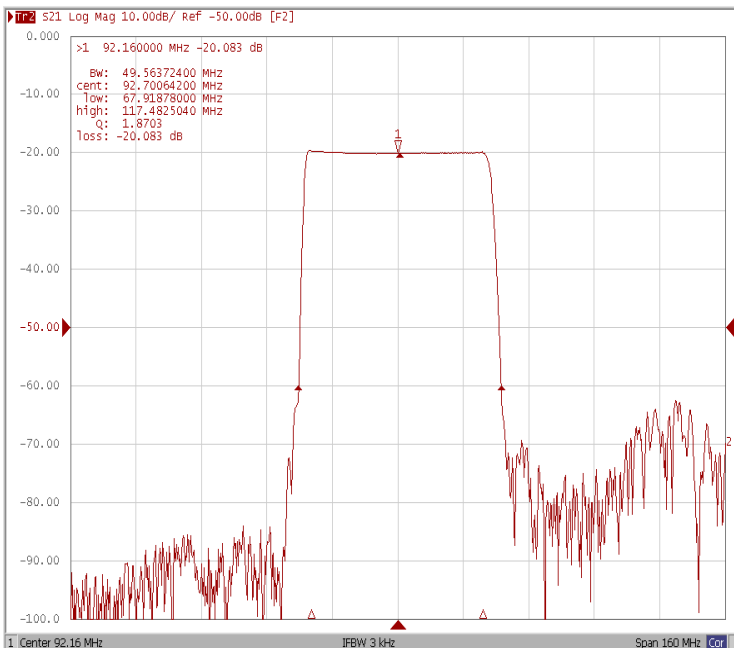
Bandwidth at -1.0 dB



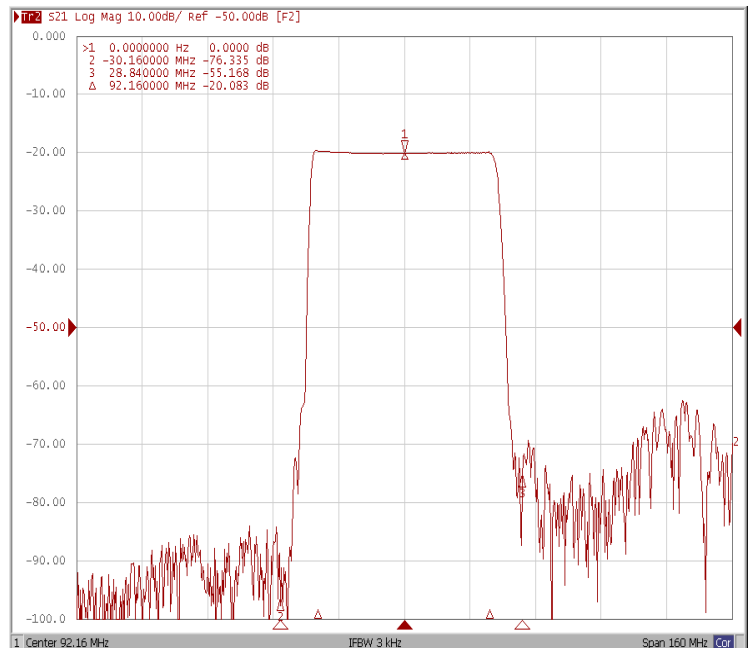
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Relative Attenuation 62MHz / 121MHz

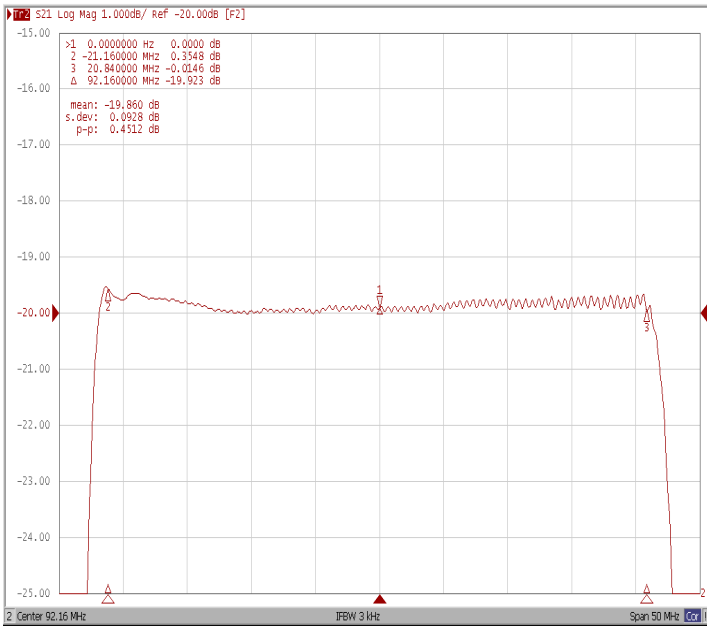




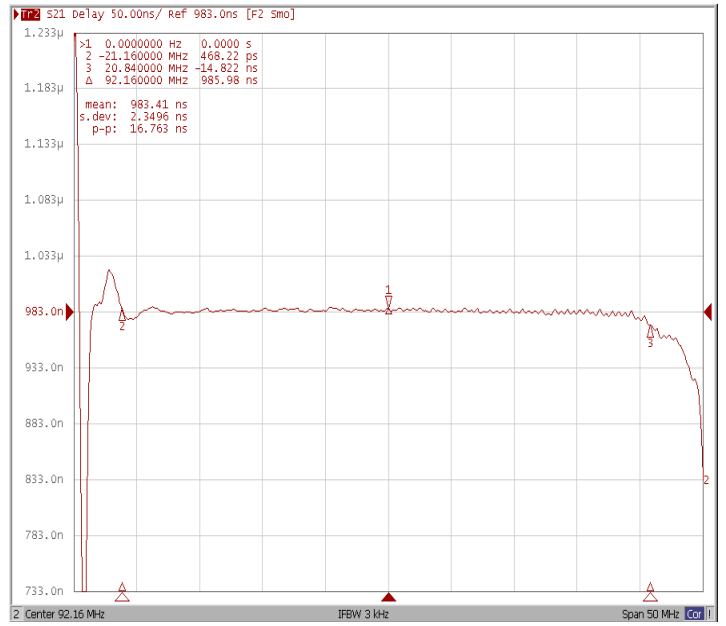
Frequency Characteristics

Frequency Response

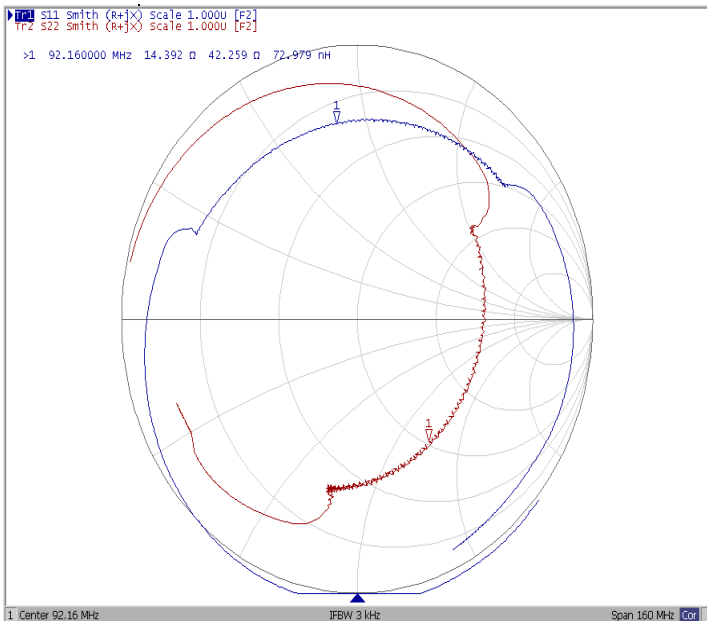
Ripple Variation(71.0MHz~113.0MHz)



Group Delay Variation(71.0MHz~113.0MHz)



Smith Chart



VSWR

