



Total Solution Provider in Saw Device

SL10905AT

109.70 MHz IF SAW Filter
6.10 MHz Bandwidth
Revision 0: 28. April. 2009



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

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□ Electrical Characteristics

Maximum Ratings

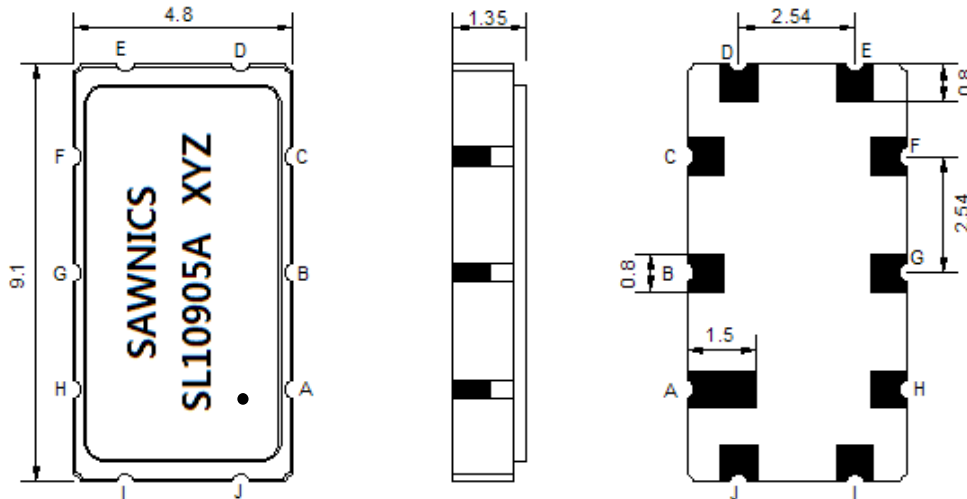
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	70
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	T			
Length x Width	mm ²	-	9.1 x 4.8	-
Height	mm	-	-	1.5

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	109.70	-
Insertion Loss at Fo	dB	-	13.50	15.00
Temperature Coefficient	ppm/°C	-	-20	-
Group Delay Variation at Fo±2.2MHz	nsec	-	16	60
Absolute Delay at Fo	usec	-	0.89	-
Passband Ripple at Fo±2.2MHz	dB	-	0.35	0.70
Bandwidth at -1dB	MHz	5.00	6.10	-
Bandwidth at -3dB	MHz	-	6.85	-
Bandwidth at -40dB	MHz	-	9.90	10.50
Ultimate Rejection	dB	45	50	-

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.

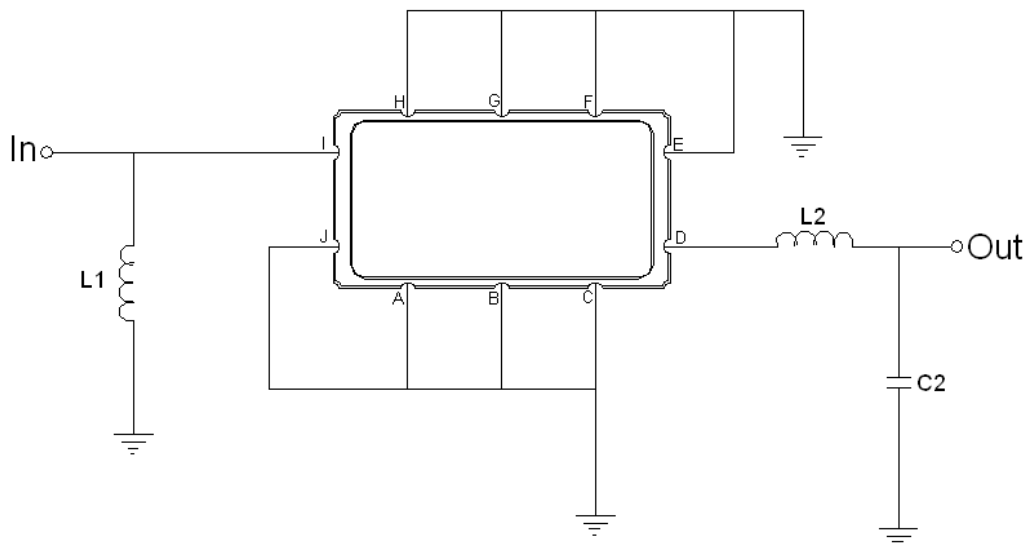
Package Dimensions



- ① SAWNICS: Brand
- ② SL10905A: 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

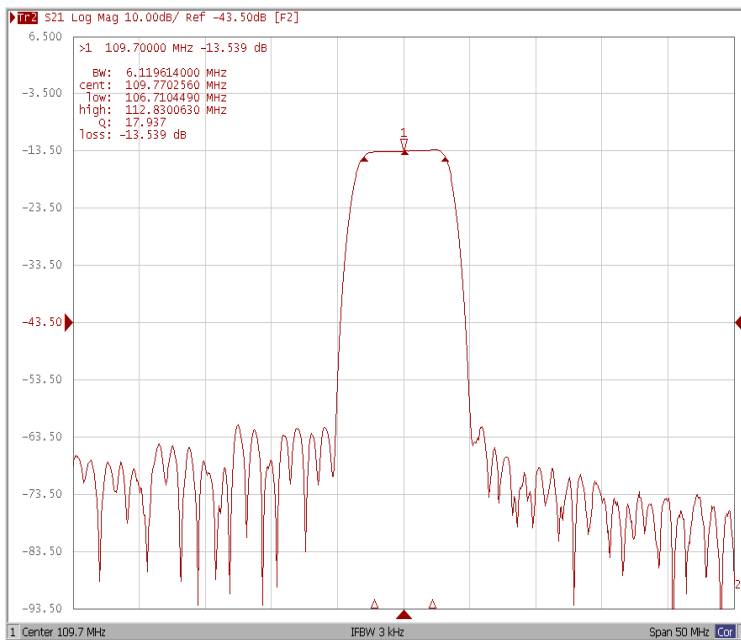


Test Fixture & Values	
Input	L1 = 27 nH,
Output	L2 = 47 nH, C1 = 82 pF
Source/Load Impedance	50 Ω

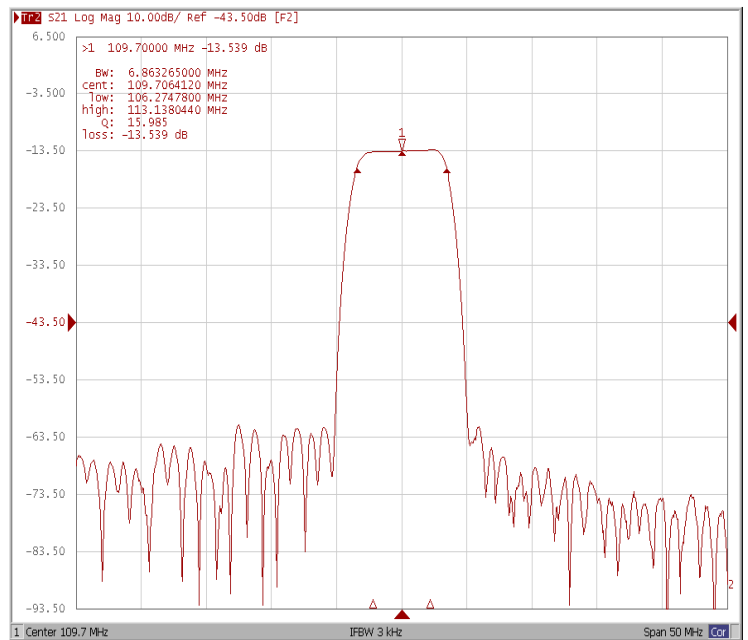
□ Frequency Characteristics

Frequency Response

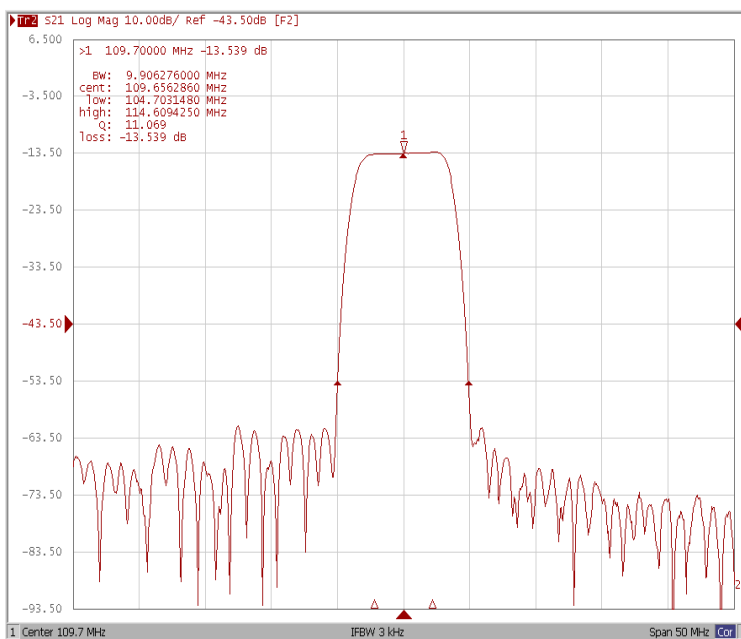
Bandwidth at -1.0 dB



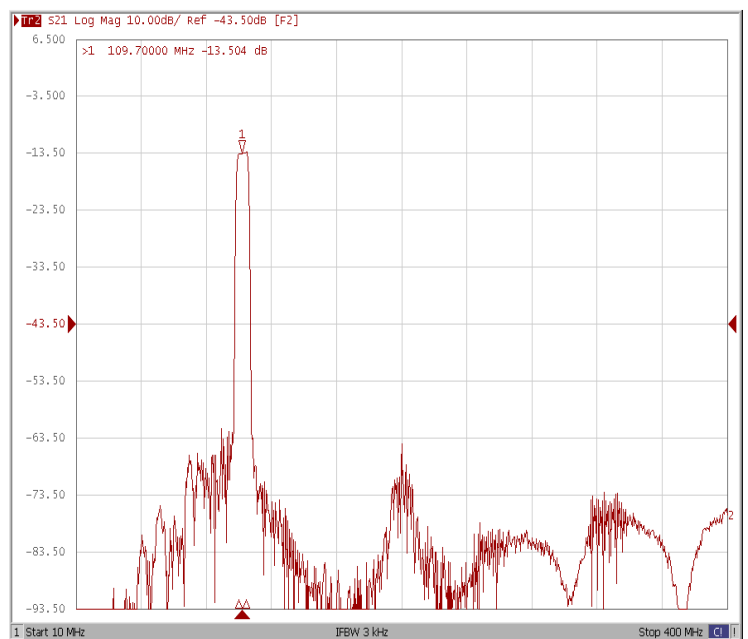
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



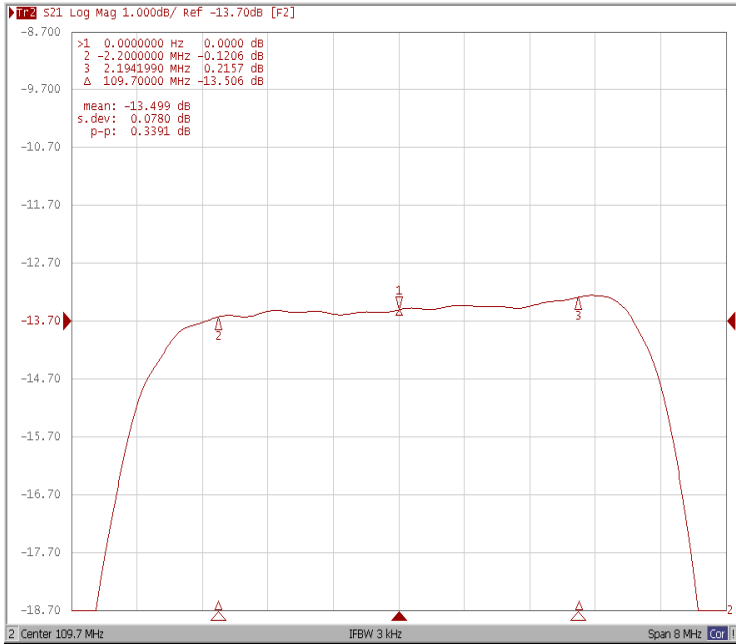
WIDE



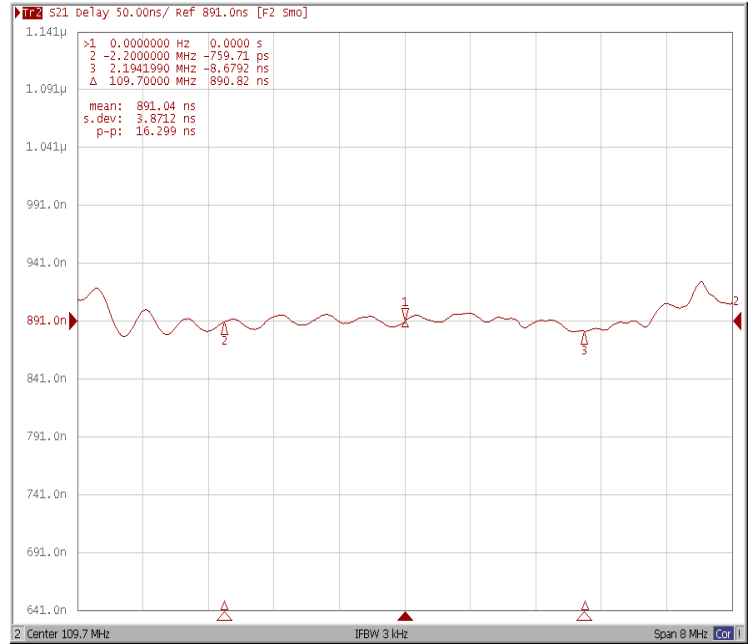


Frequency Response

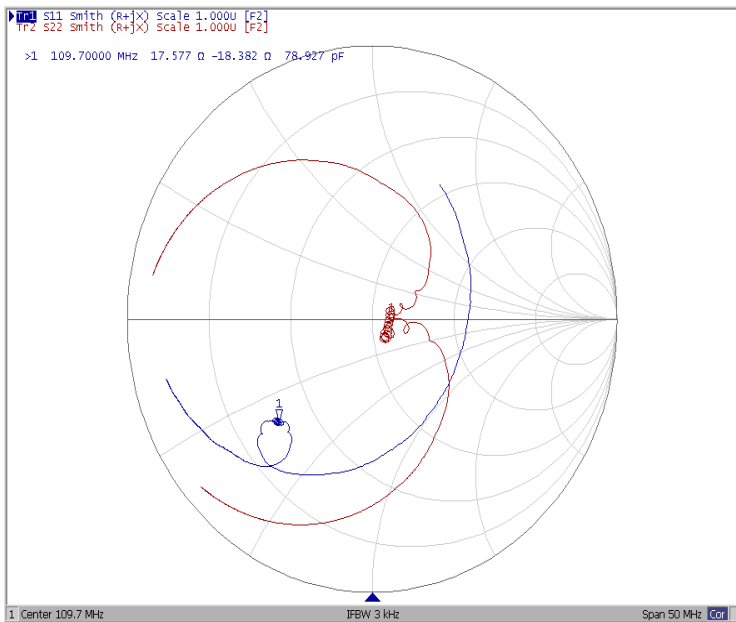
Ripple Variation Fo±2.2MHz



Group Delay Variation Fo±2.2MHz



Smith



SWR

