



Total Solution Provider in Saw Device

SL07530AD1

75.0 MHz IF SAW Filter
30.25 MHz Bandwidth
Revision 1: 16. Feb. 2009



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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
Operation Temperature Range	°C	-10	-	70
Storage Temperature Range	°C	-30	-	80
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	D1			
Length x Width	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

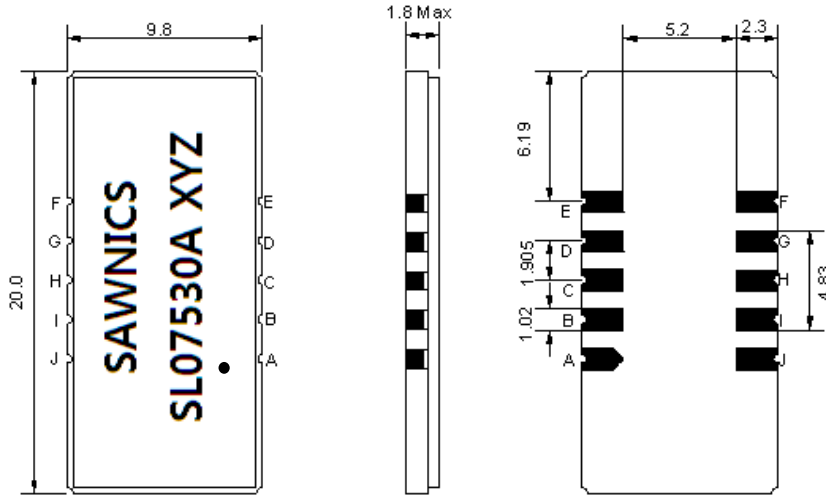
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	18.8	22.0
Group Delay Variation (Fo±14.52MHz)	ns	-	35	80
Absolute Delay	us	-	1.3	1.5
Passband Ripple (Fo±14.52MHz)	dB	-	0.40	0.90
Bandwidth at -1dB	MHz	29.50	30.25	-
Bandwidth at -5dB	MHz	-	31.45	31.76
Bandwidth at -10dB	MHz	-	32.23	-
Bandwidth at -20dB	MHz	-	33.18	-
Bandwidth at -40dB	MHz	-	34.62	-
Ultimate Rejection	dB	40	46	-
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.

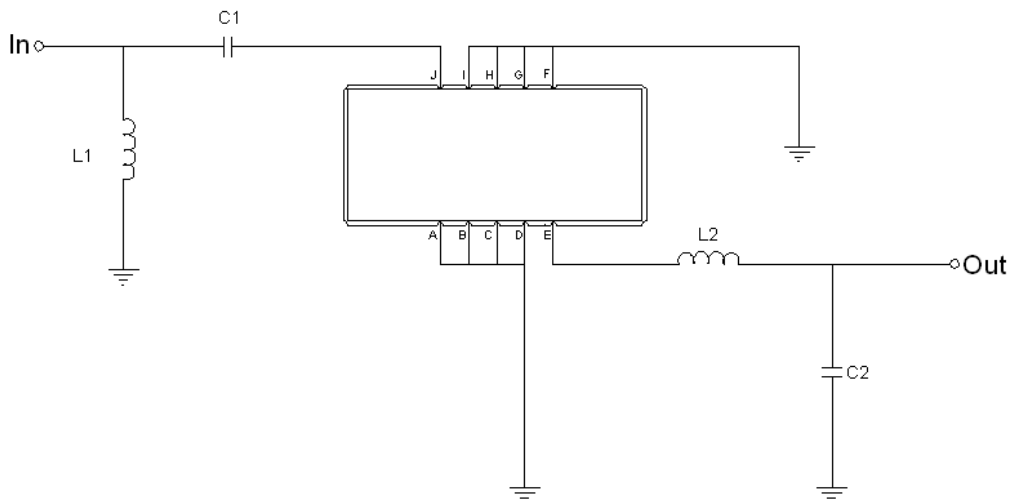
Package Dimensions



- ① SAWNICS: Brand
- ② SL07530A: 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	Ground
J	Input
E	Output

Testing Environment

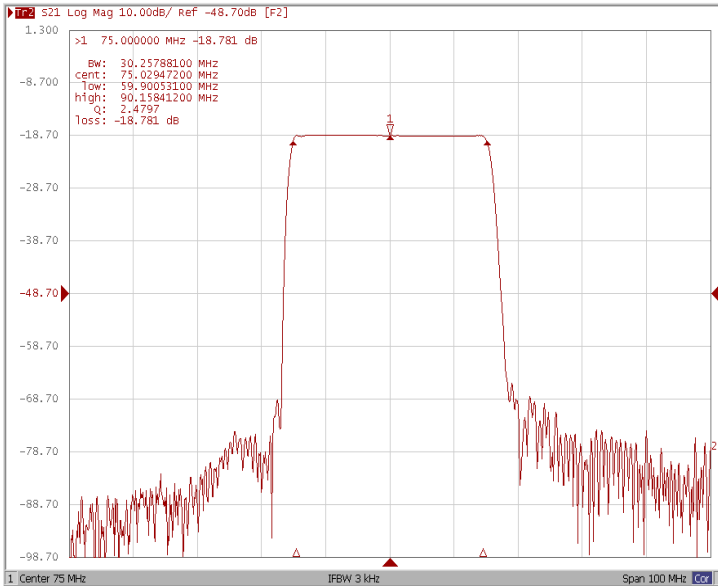


Test Fixture & Values	
Input	L1=68nH, C1=390pF
Output	L2=120nH, C2=43pF
Source/Load Impedance	50 Ω

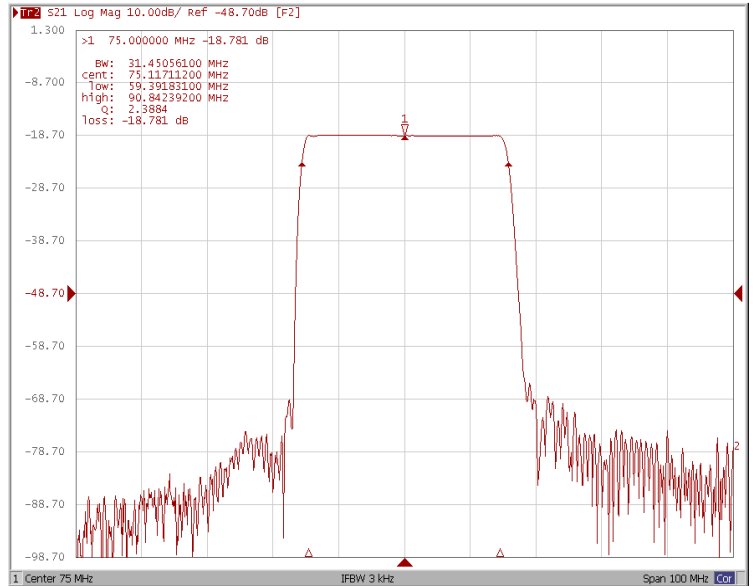
□ Frequency Characteristics

Frequency Response

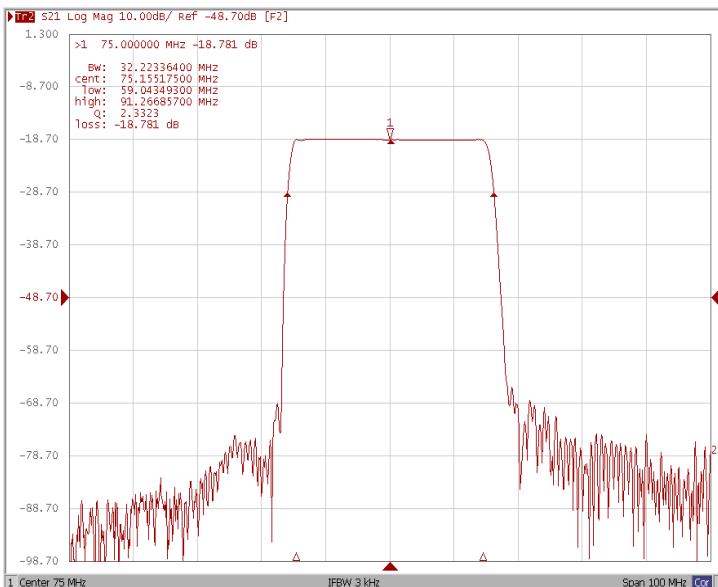
Bandwidth at -1.0 dB



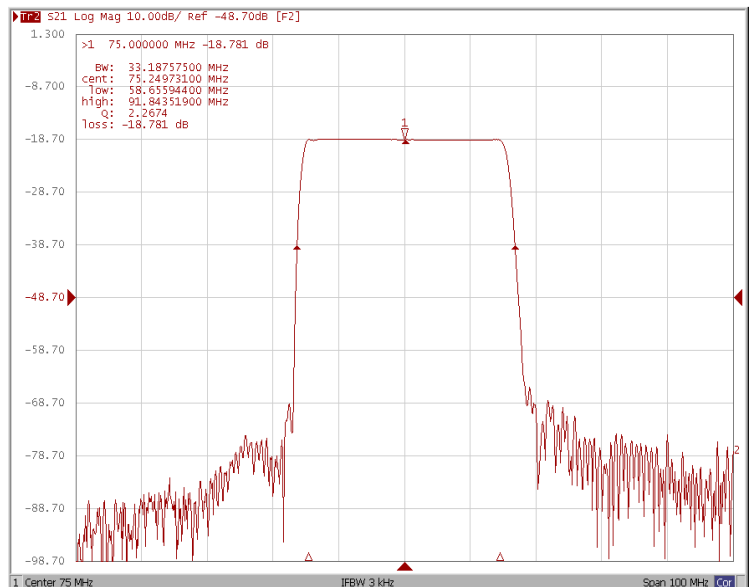
Bandwidth at -5.0 dB



Bandwidth at -10.0 dB



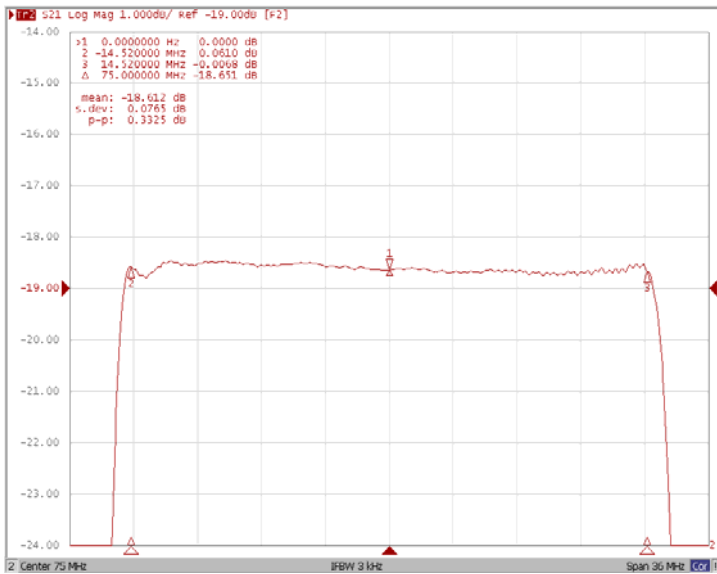
Bandwidth at -20.0 dB



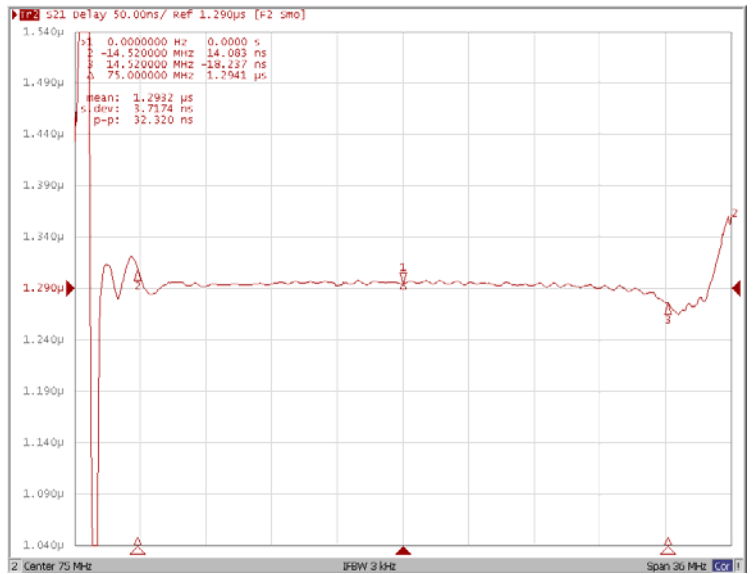
□ Frequency Characteristics

Frequency Response

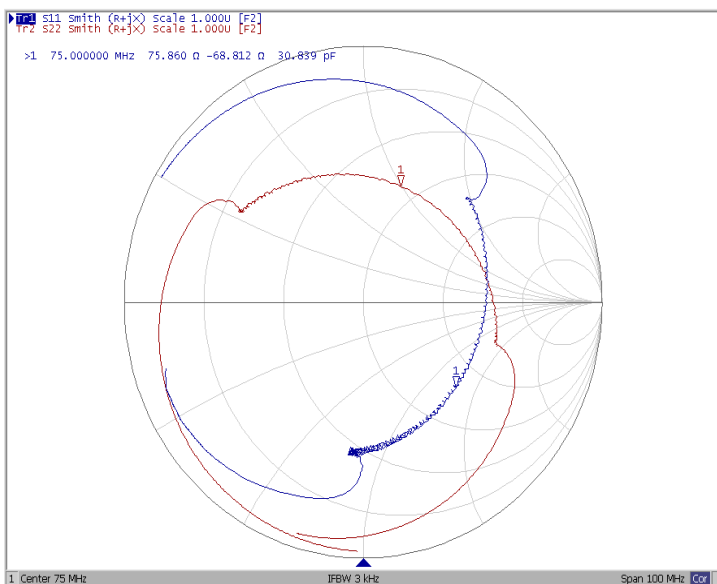
Ripple Variation $Fo \pm 14.52\text{MHz}$



Group Delay Variation $Fo \pm 14.52\text{MHz}$



Smith Chart



VSWR

