



Total Solution Provider in Saw Device

SL07514AV

75.0 MHz IF SAW Filter
14.83 MHz Bandwidth
Revision 0: 30. SEP. 2008



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

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□ Electrical Characteristics

Maximum Ratings

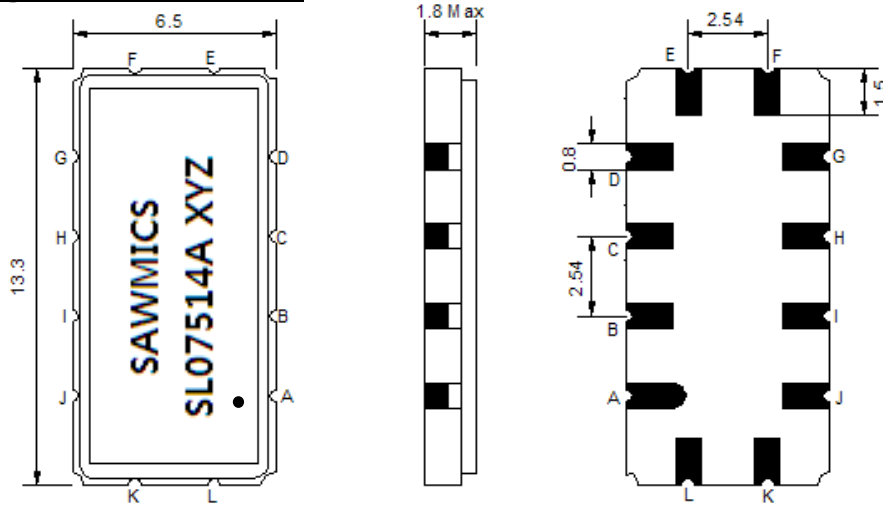
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	25	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
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	-	75.0	-
Insertion Loss at Fo	dB	-	13.90	16.00
Group Delay Variation at Fo ± 6.875MHz	nsec	-	40	80
Absolute Delay Time at Fo	usec	-	1.3	-
Passband Ripple Variation at Fo ± 6.875MHz	dB	-	0.34	0.90
Bandwidth at -1dB	MHz	-	14.83	-
Bandwidth at -3dB	MHz	-	15.39	-
Bandwidth at -40dB	MHz	-	18.00	-
Ultimate Rejection	dB	40	47	-
Temperature Coefficient	ppm/°C	-	-86	-
VSWR	-	-	3	-

Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below)3.
Those impedances could be modified with different impedance values and/or structures, if necessary.

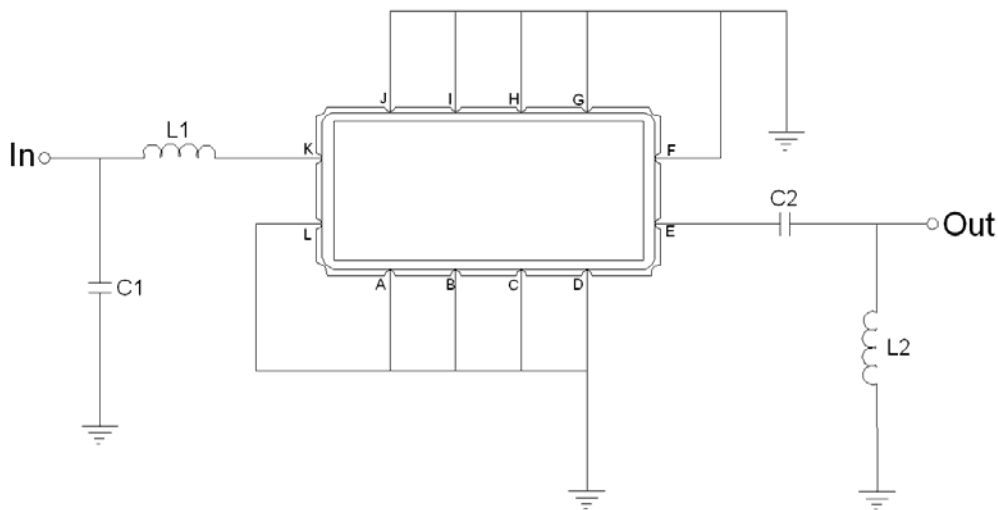
Package Dimensions



- ① SAWNICS: Brand
- ② SL07514A: 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



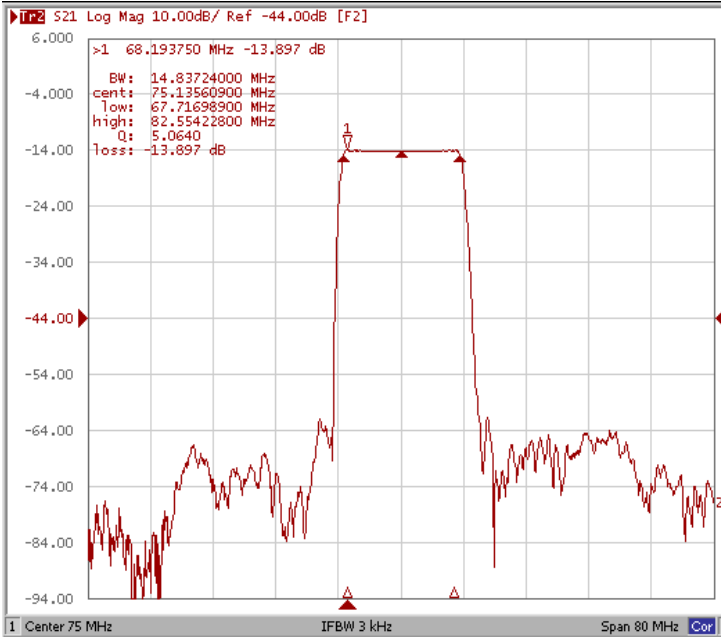
Test Fixture & Values	
Input	L1 = 82 nH, C1=68pF
Output	L2 = 68 nH, C2 = 200 pF
Source/Load Impedance	50 Ω



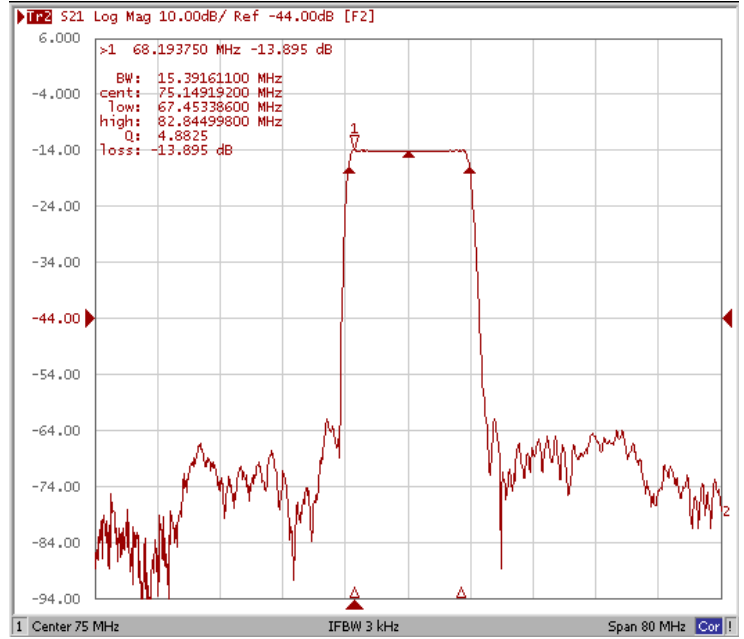
Frequency Characteristics

Frequency Response

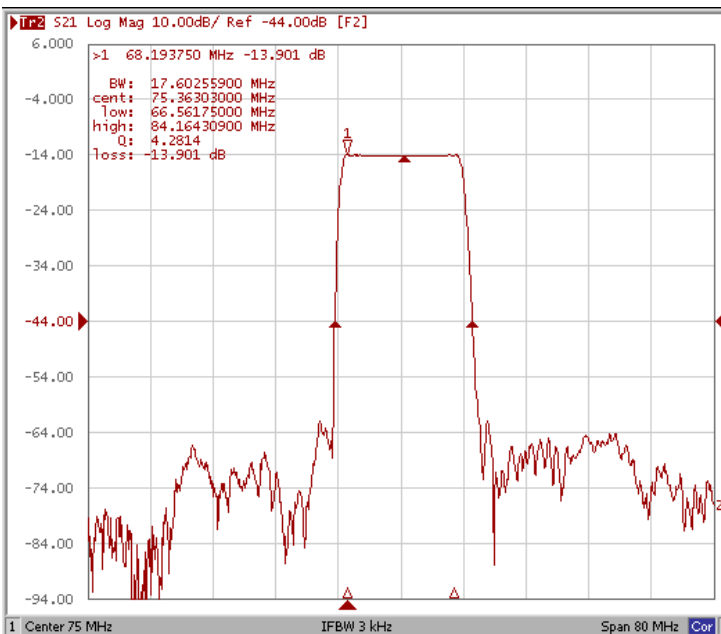
Bandwidth at -1.0 dB



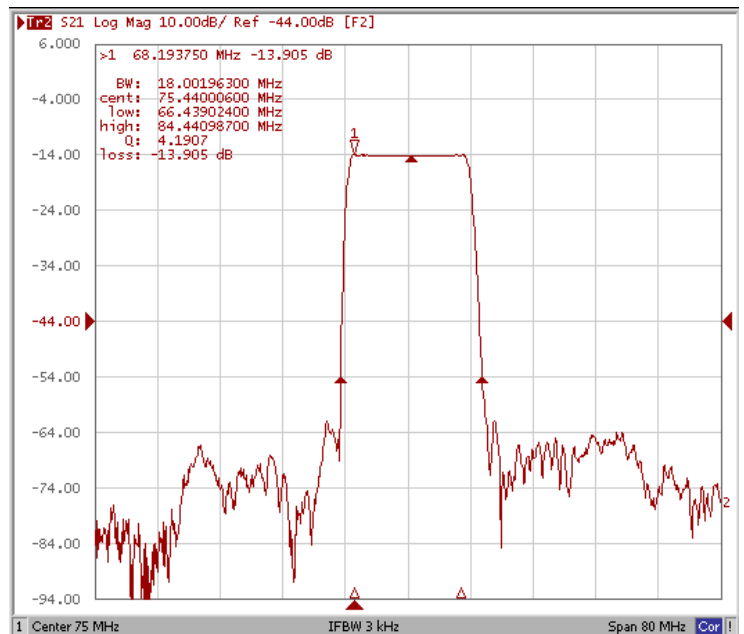
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB



Bandwidth at -40.0 dB

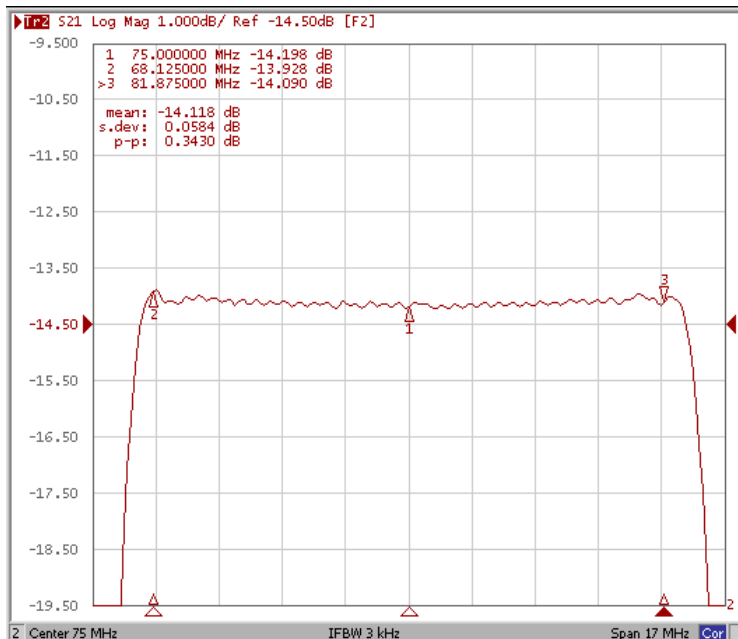




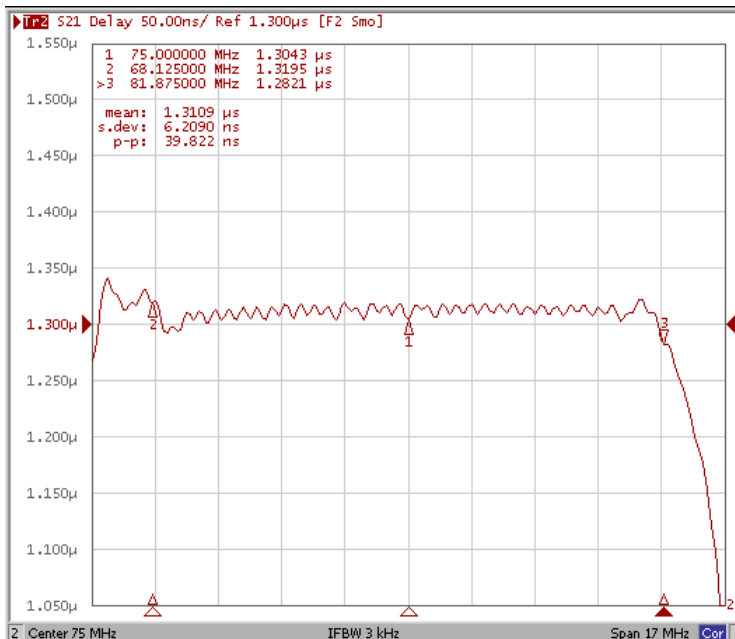
Frequency Characteristics

Frequency Response

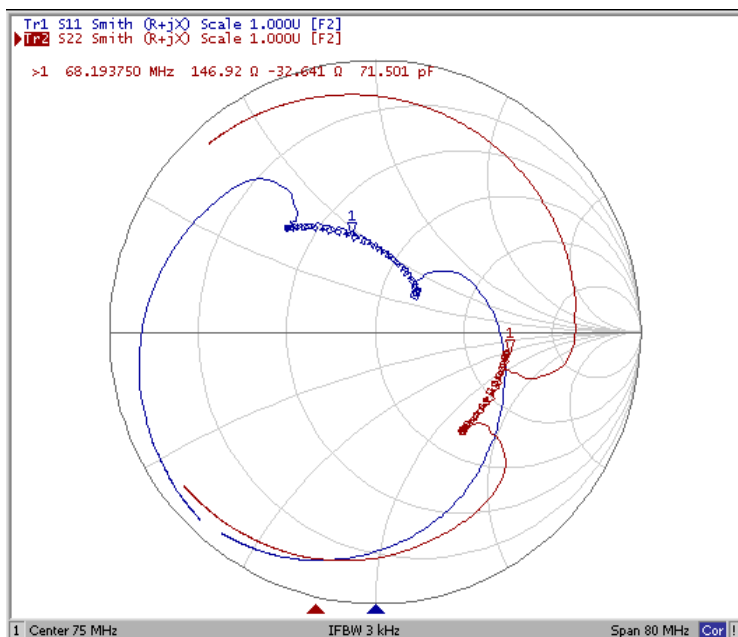
Ripple Variation Fo±6.875MHz



Group Delay Variation Fo±6.875MHz



Smith Chart



VSWR

