



Total Solution Provider in Saw Device

SL07527CT

75.0MHz IF SAW Filter

27.5 MHz Bandwidth

Revision 0: 5. February. 2008



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

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□ Electrical Characteristics

Maximum Ratings

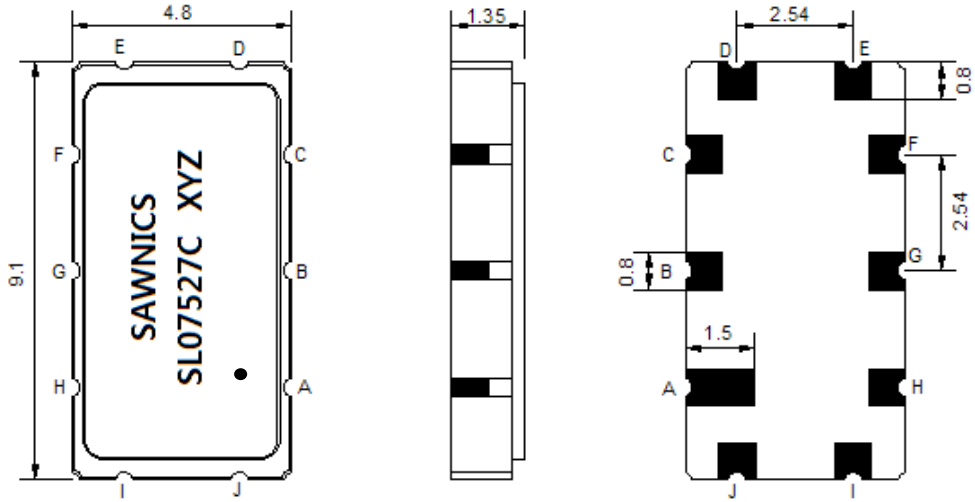
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	T			
Length 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	-	75.1	-
Insertion Loss at Fo	dB	-	18.2	19.0
Amplitude Ripple Variation at Fo ± 12.5 MHz	dB _{p-p}	-	0.3	0.6
Group Delay Variation at Fo ± 12.5 MHz	nsec	-	15	35
Absolute Delay at Fo	µsec	-	0.83	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -1.0 dB	MHz	-	27.50	-
Bandwidth at -3.0 dB	MHz	-	28.40	-
Bandwidth at -30.0 dB	MHz	-	32.40	32.80
Relative Attenuation				
Lower Sidelobe	dB	30	40	-
Upper Sidelobe	dB	30	40	-

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.

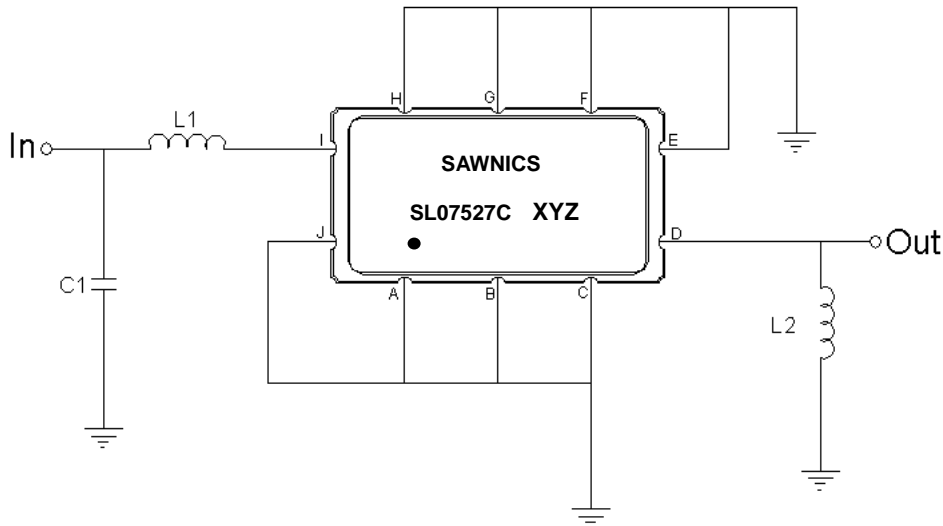
Package Dimensions



- ① SAWNICS: Brand
- ② SL07527C: 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

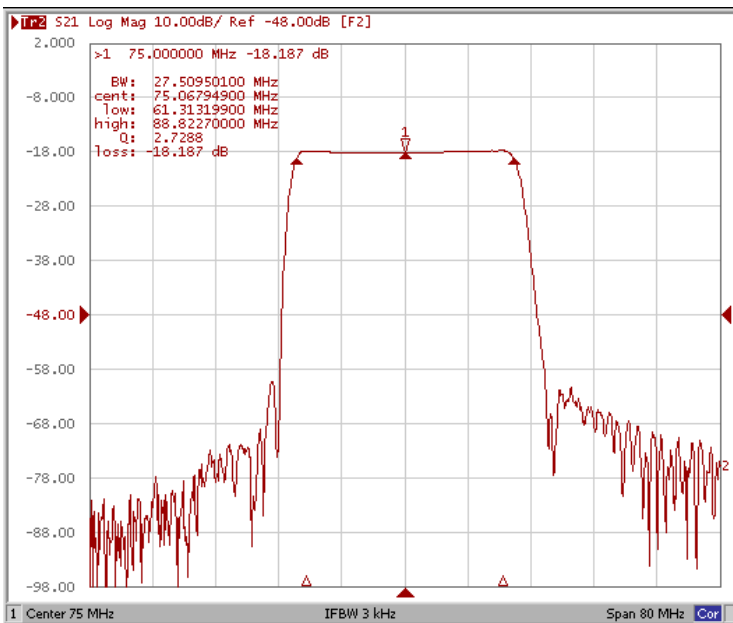


Test Fixture & Values	
Input	L1=100 nH , C1=12 pF
Output	L2=120 nH,
Source/Load Impedance	50 Ω

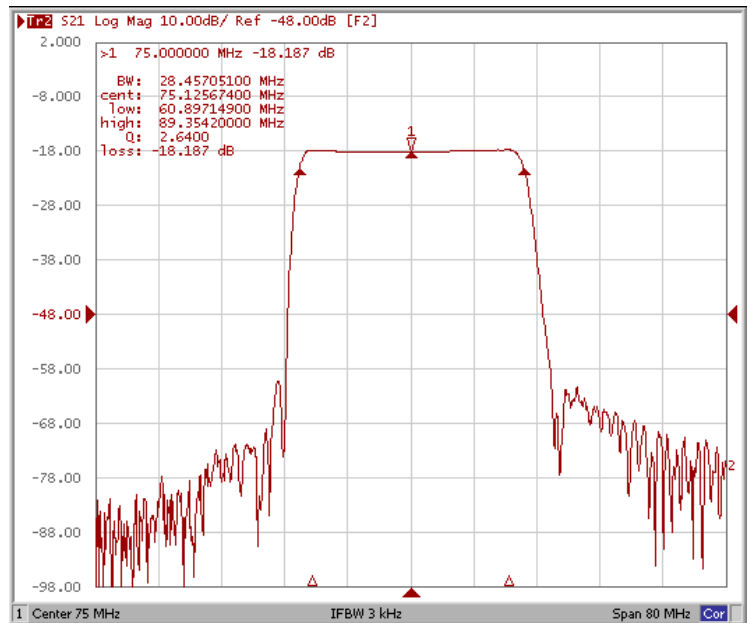
□ Frequency Characteristics

Frequency Response

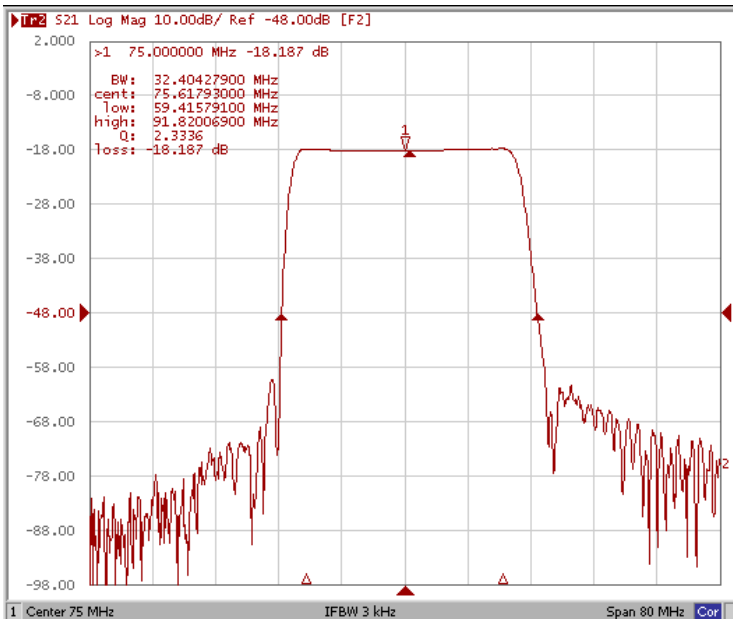
Bandwidth at -1.0 dB



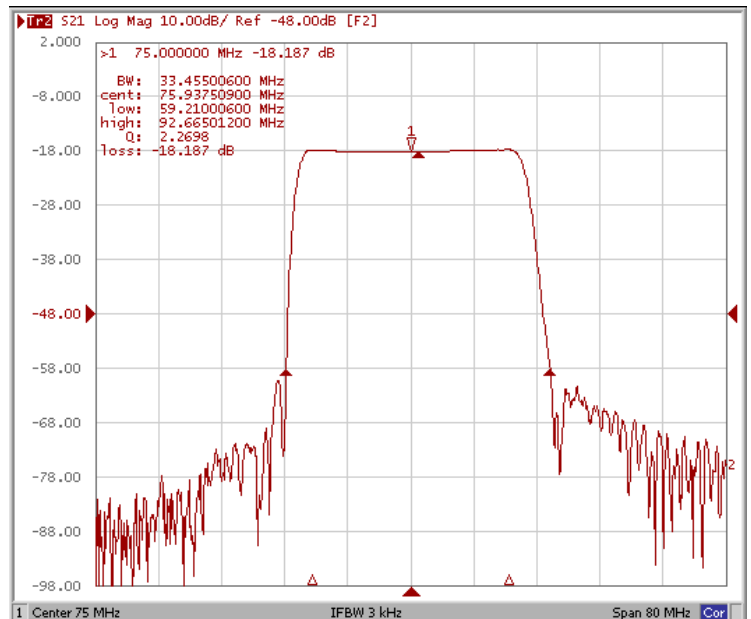
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB



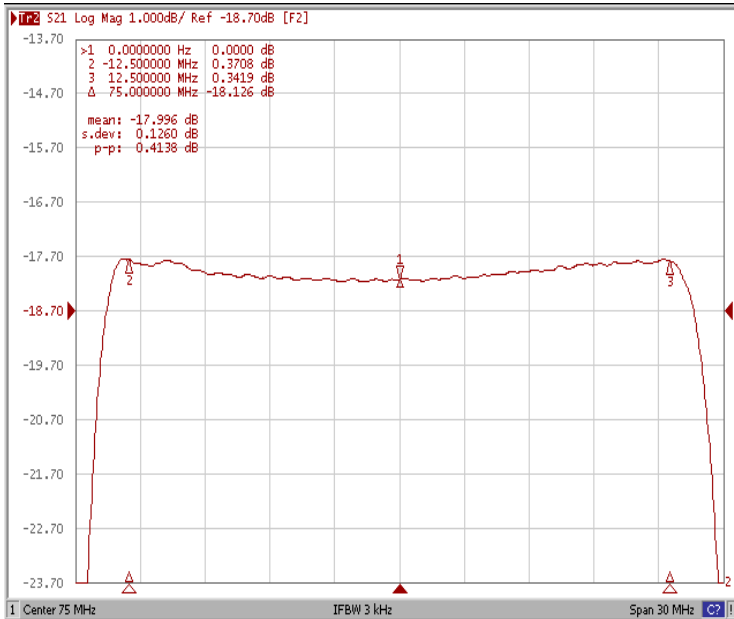
Bandwidth at -40.0 dB



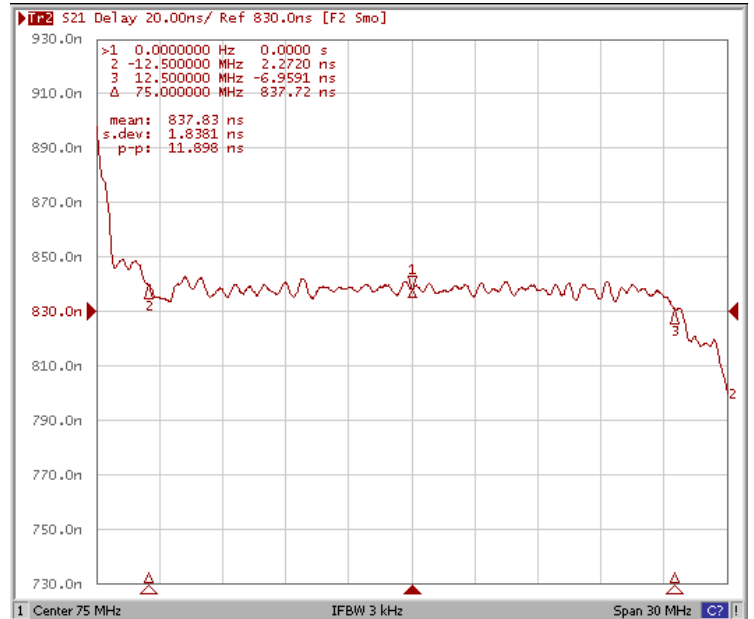
□ Frequency Characteristics

Frequency Response

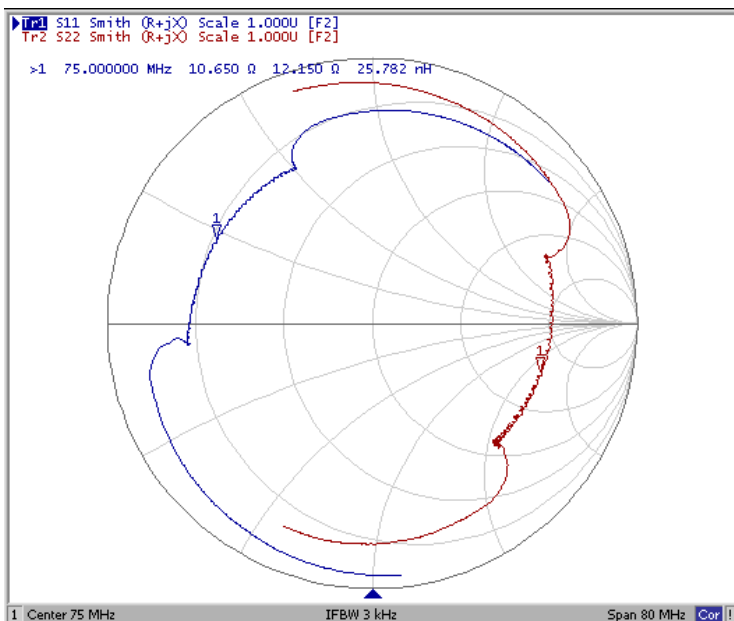
Ripple Variation $Fo \pm 12.5\text{MHz}$



Group Delay Variation $Fo \pm 12.5\text{MHz}$



Smith Chart



SWR

