



Total Solution Provider in Saw Device

SL38010AS

380.0 MHz IF SAW Filter
10.65 MHz Bandwidth
Revision 1: 19. September. 2008.



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

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□ Electrical Characteristics

Maximum Ratings

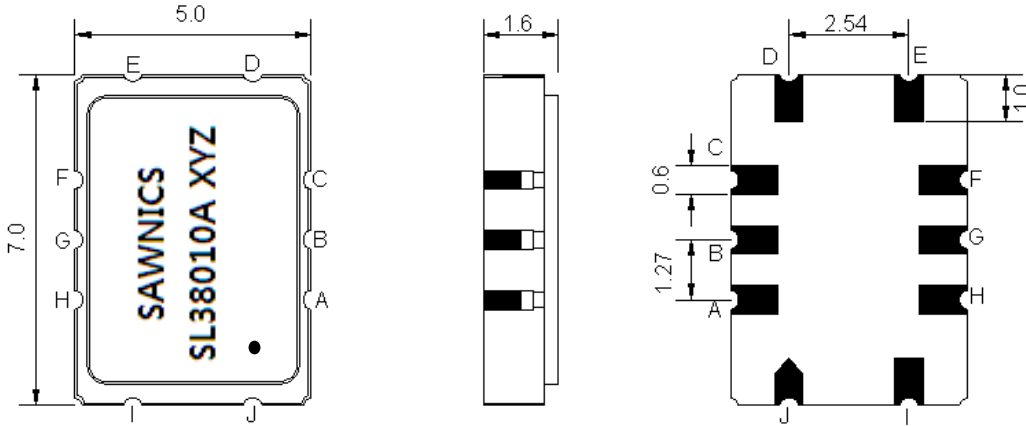
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-40	-	85
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	S			
Length x Width	mm ²	-	7.0 x 5.0	-
Height	mm	-	-	1.6

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	380.00	-
Insertion Loss at Fo	dB	-	8.50	10.00
Amplitude Ripple Variation (Fo ± 1.5 MHz)	dB _{p-p}	-	0.90	1.50
Group Delay Variation (Fo ± 1.5 MHz)	nsec	-	75	120
Absolute Delay at Fo	µsec	-	0.36	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -3.0 dB	MHz	-	13.90	-
Bandwidth at -40.0 dB	MHz	-	22.60	24.00
Attenuation (Fo + 140MHz)	dB	50	55	-

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.

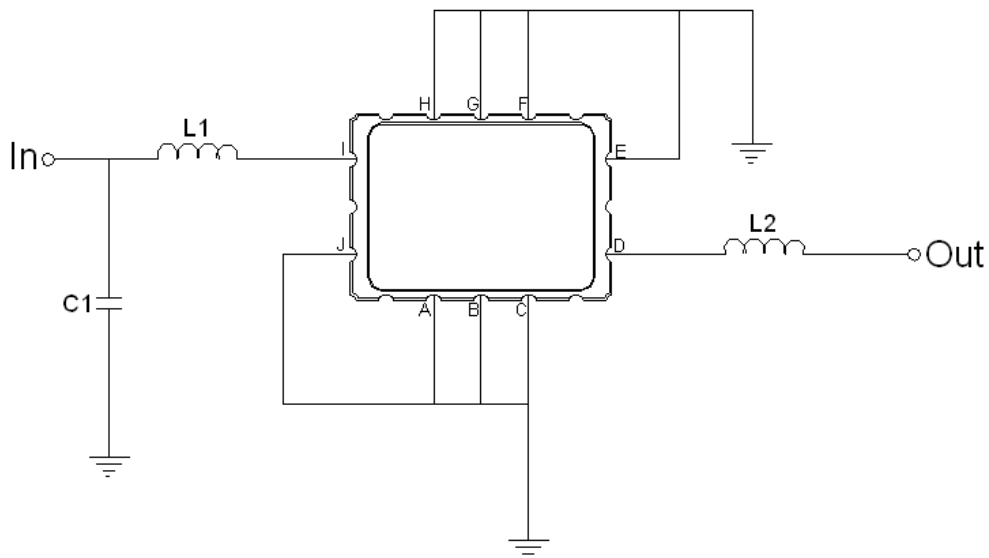
□ Package Dimensions



- ① SAWNICS: Brand
- ② SL38010A: 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=18 nH , C1=13 pF
Output	L2=12 nH
Source/Load Impedance	50 Ω

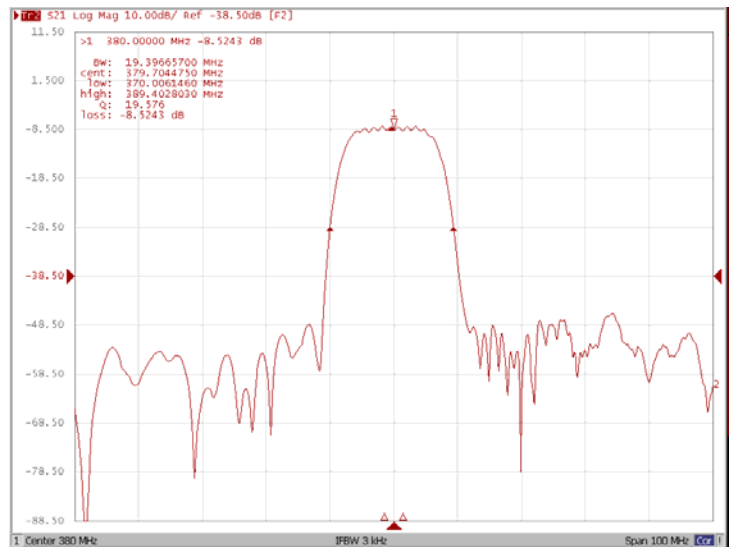
□ Frequency Characteristics

Frequency Response

Bandwidth at -3.0 dB



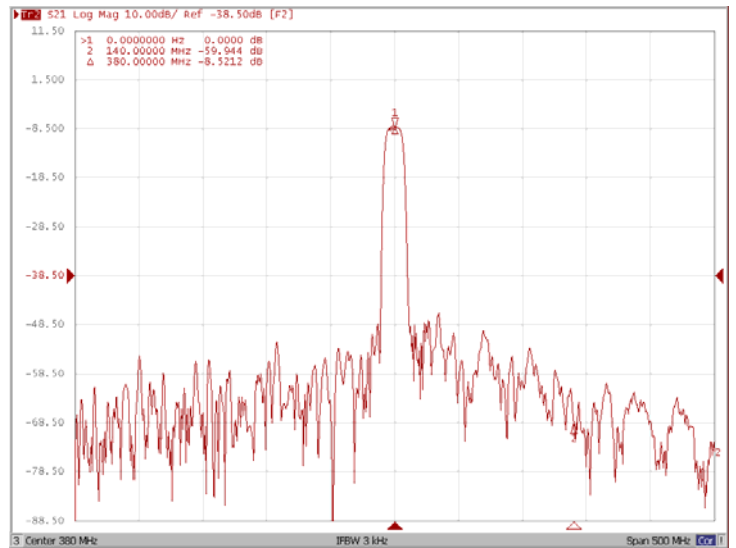
Bandwidth at -20.0 dB



Bandwidth at -40.0 dB



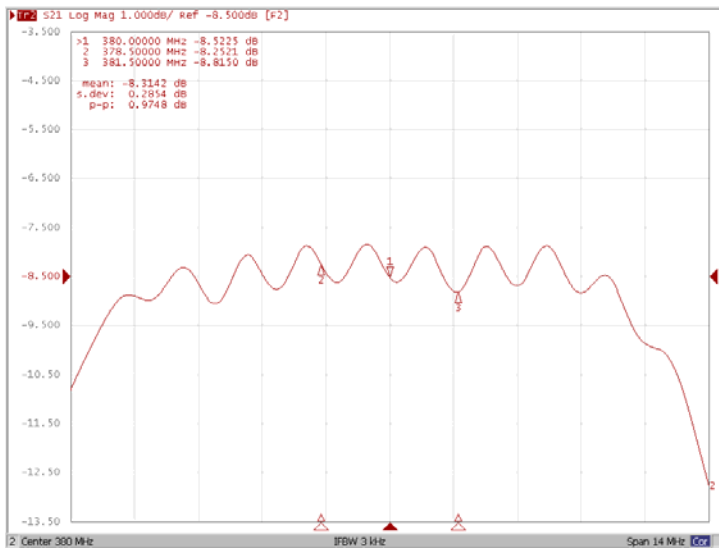
Attenuation at Fo +140MHz



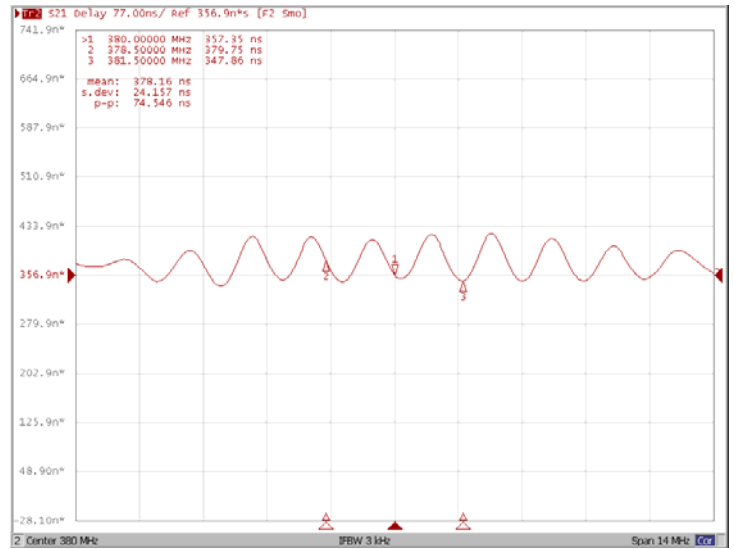
□ Frequency Characteristics

Frequency Response

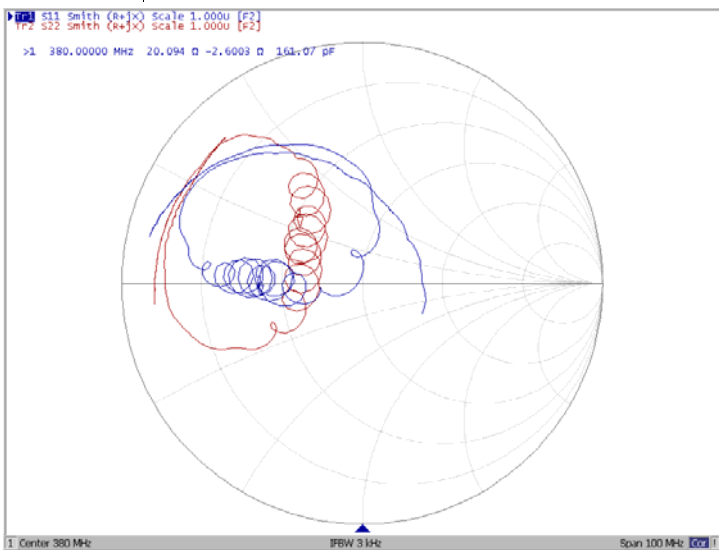
Ripple Variation $F_o \pm 1.5\text{MHz}$



Group Delay Variation $F_o \pm 1.5\text{MHz}$



Smith Chart



VSWR

