



Total Solution Provider in Saw Device

SF-026101-S60

261.00MHz IF SAW Filter
10.85 MHz Bandwidth
Revision 0: May 2013



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

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□ Electrical Characteristics

Maximum Ratings

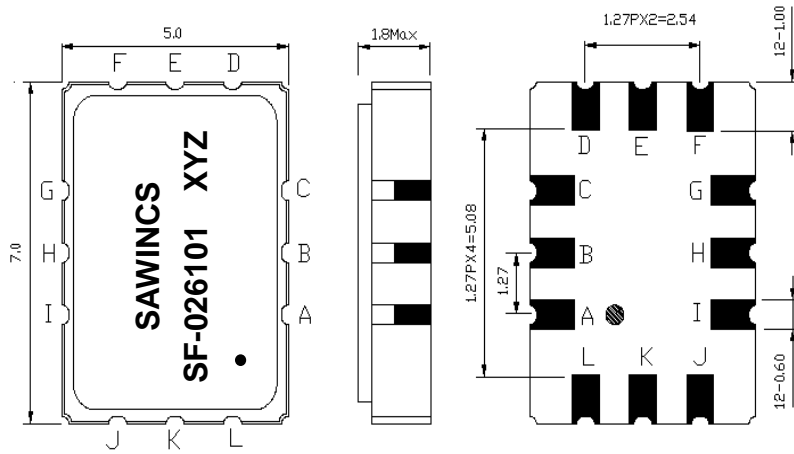
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (Single-ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (Single-ended) ⁽¹⁾	Ω	-	50	-
Package type & size	S60			
Length x Width	mm ²	-	7.0 x 5.0	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	261.00	-
Insertion Loss at Fo	dB	-	12.3	14.0
Amplitude Ripple Variation within 257 ~ 265MHz	dB _{p-p}	-	0.2	0.8
Group Delay Variation	nsec	-	16	50
Absolute Group Delay within 257 ~ 265MHz	μsec	-	0.54	0.8
Bandwidth at -1.0 dB	MHz	10.50	10.85	-
Relative Attenuation				
Fo ± 15.0MHz	dB	40	50	-
Temperature Coefficient	ppm/°C	-	-20	-

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.

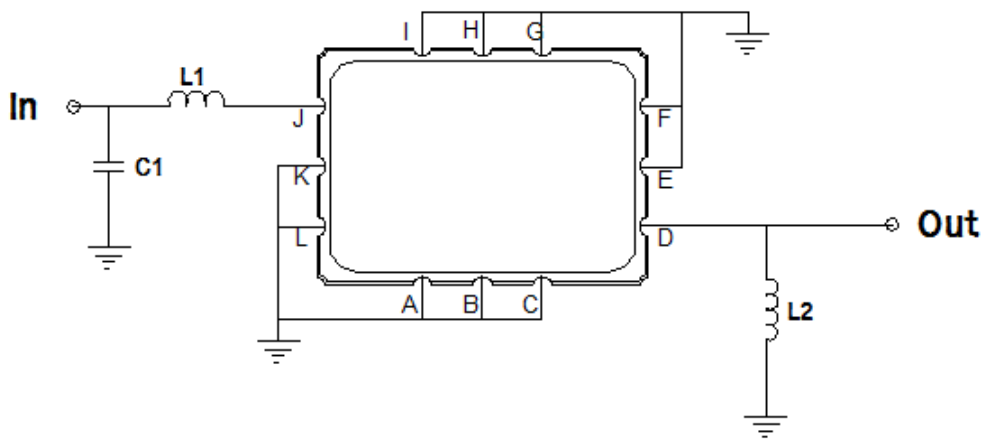
Package Dimensions



- ① SAWNICS : Brand
- ② SF-026101 : 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,I,K,L	Ground
J	Input
D	Output

Testing Environment



Test Fixture & Values	
Input	L1=27 nH, C1=18pF
Output	L2=15 nH,
Source/Load Impedance	50 Ω

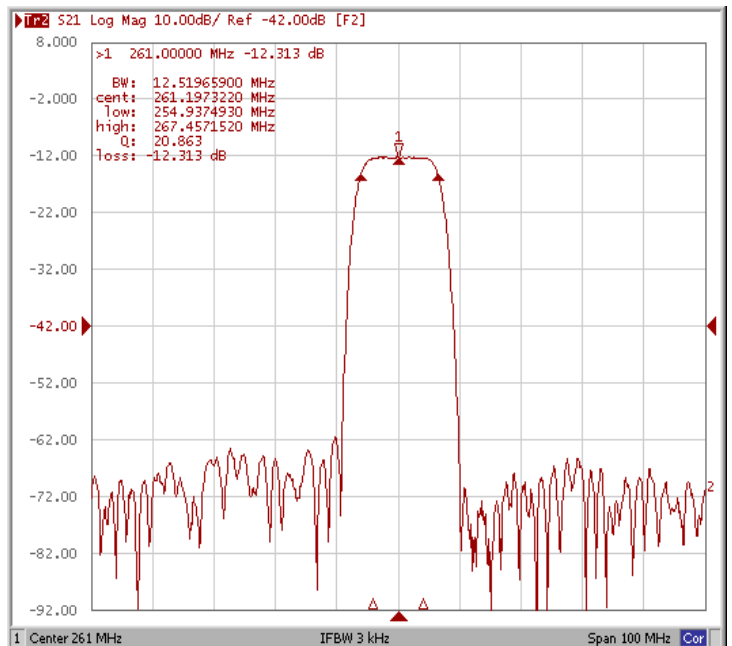
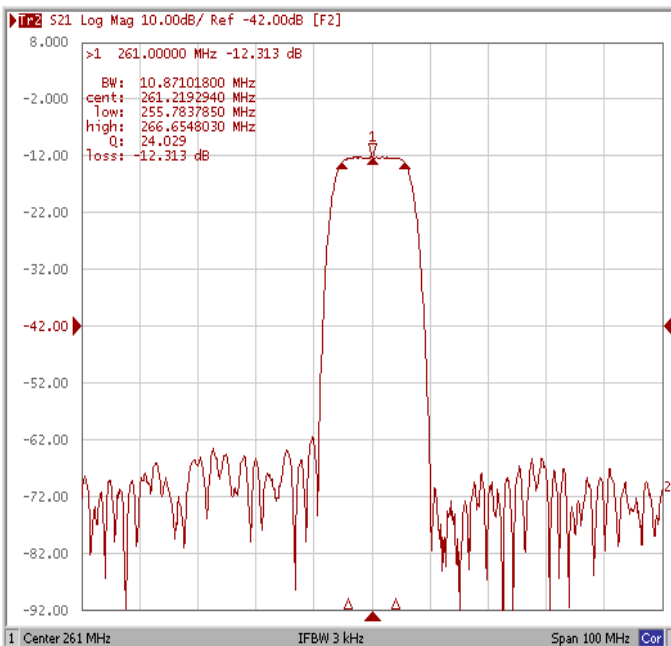
□ Frequency Characteristics

Frequency Response

Operating Temperature : +25 °C

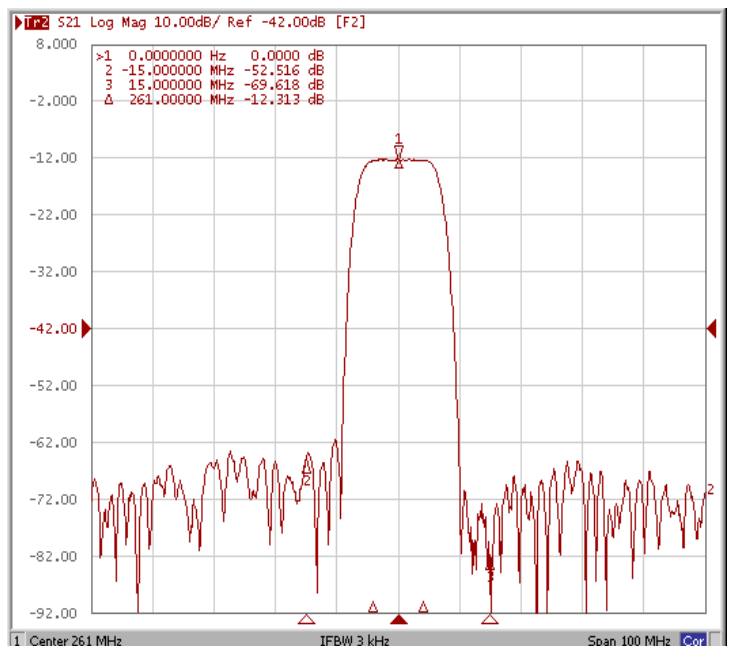
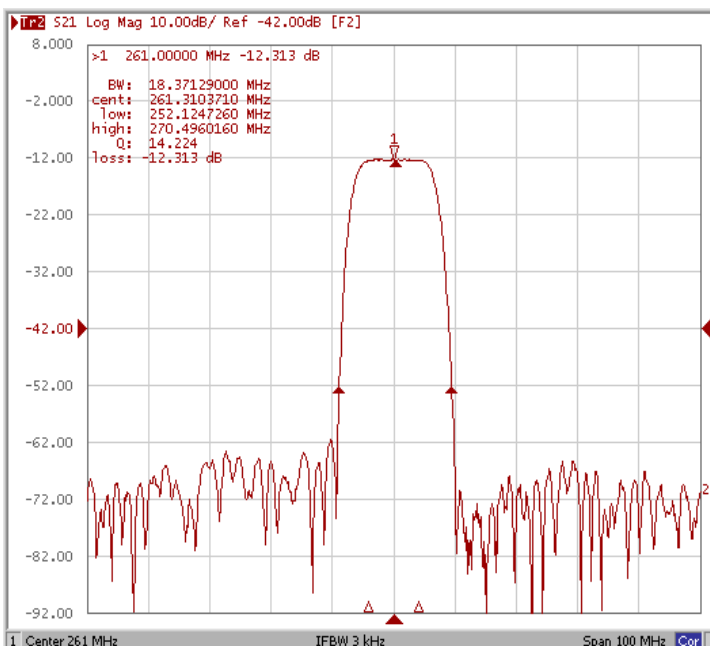
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

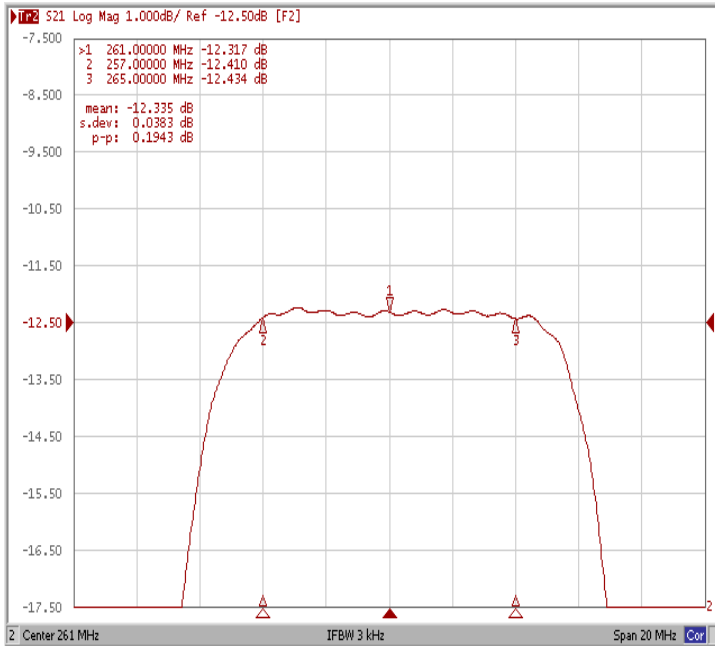
Relative Attenuation



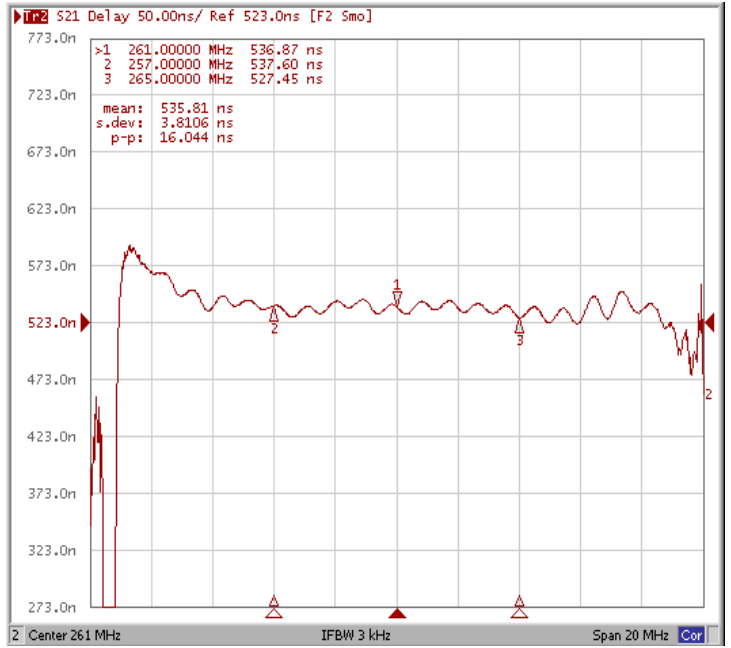
□ Frequency Characteristics

Frequency Response

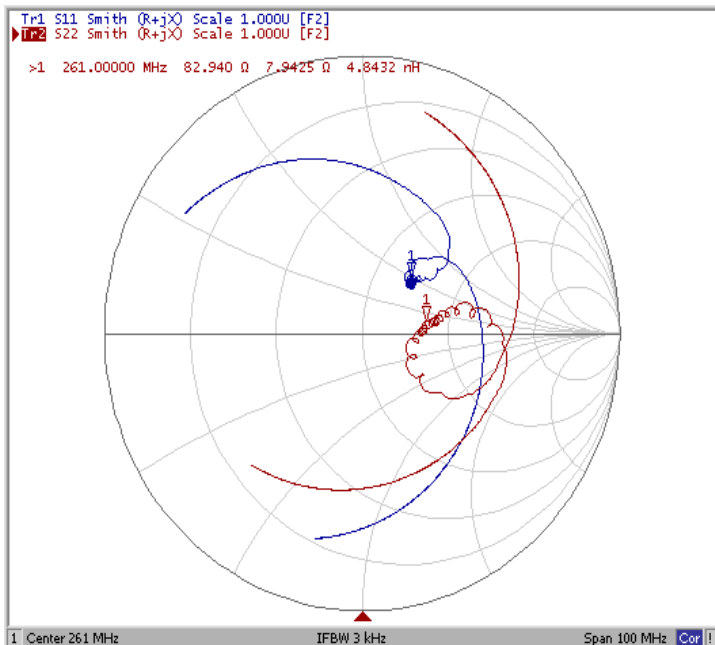
Ripple Variation $F_o \pm 4.0\text{MHz}$



Group Delay Variation $F_o \pm 4.0\text{MHz}$



Smith Chart



VSWR

