



Total Solution Provider in Saw Device

SL06216AT

62.5 MHz IF SAW Filter
16.60 MHz Bandwidth
Revision 0: 22. March. 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
Operating Temperature Range	°C	-30	-	60
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

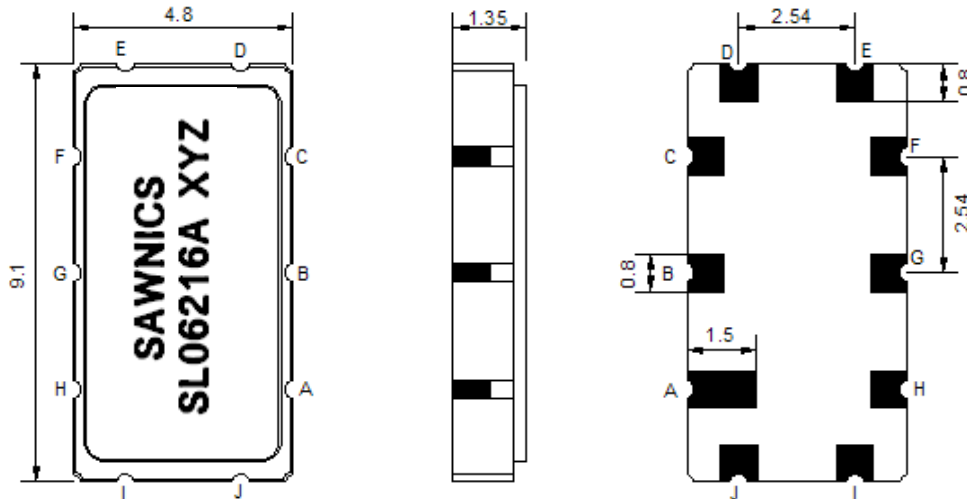
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	15.0	17.0
Group Delay Variation at Fo±7MHz	nsec	-	25	50
Absolute Delay at Fo	usec	-	0.88	-
Passband Ripple at Fo±7MHz	dB	-	0.25	0.7
Bandwidth at -1dB	MHz	16.4	16.6	-
Bandwidth at -3dB	MHz	-	17.57	-
Bandwidth at -40dB	MHz	-	21.56	22.0
Relative Attenuation:				
Lower sidelobe	dB	40	45	-
Upper sidelobe	dB	40	45	-

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.

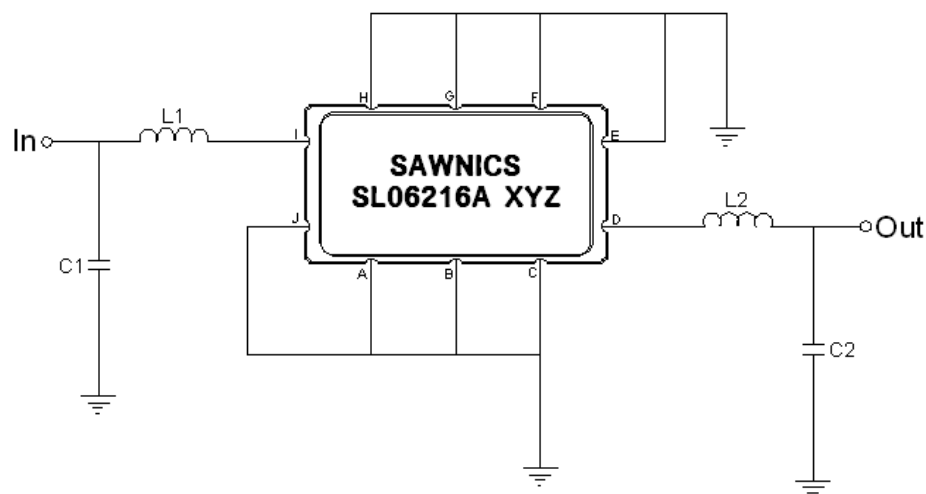
Package Dimensions



- ① SAWNICS: Brand
- ② SL06216A: 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

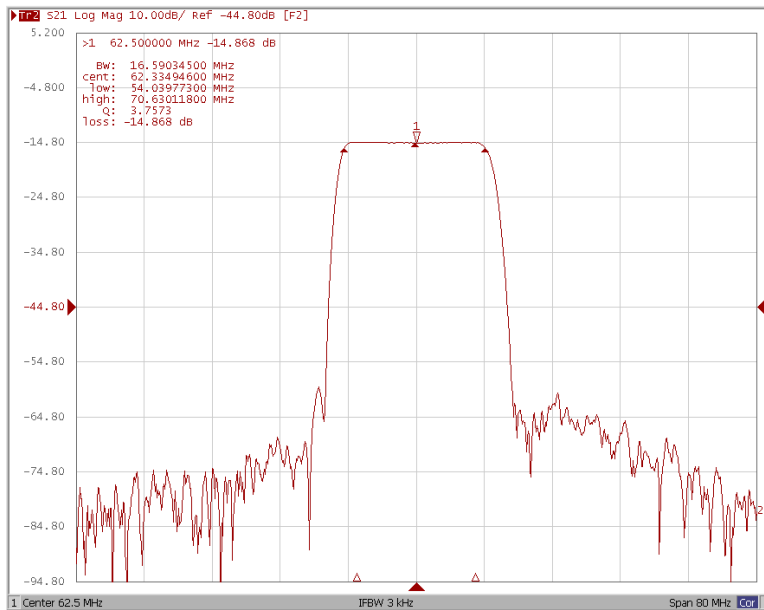


Test Fixture & Values	
Input	L1 = 180 nH, C1 = 18 pF
Output	L2 = 180 nH, C2 = 2.2 pF
Source/Load Impedance	50 Ω

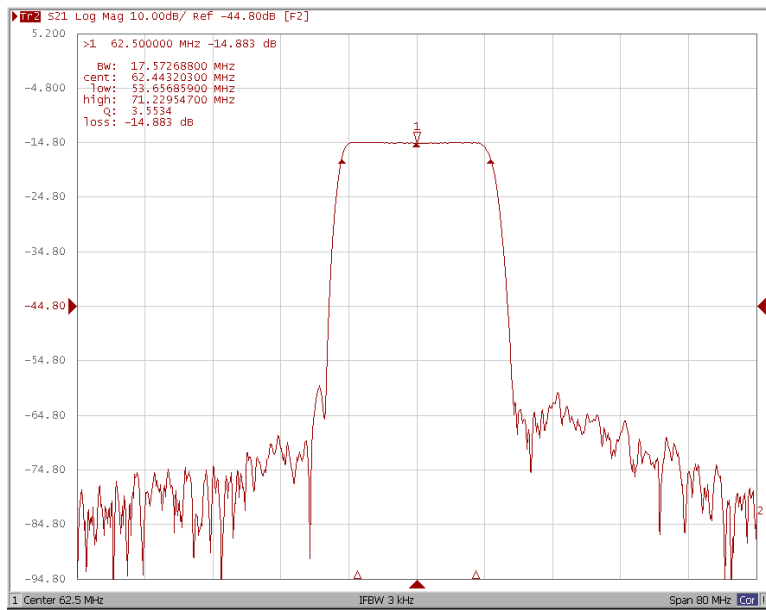
Frequency Characteristics

Frequency Response

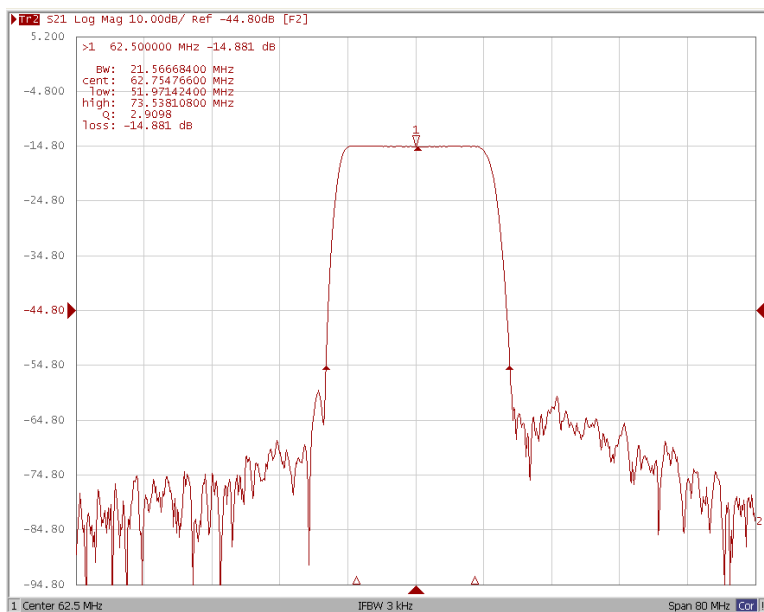
Bandwidth at -1.0 dB



Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Wide-Band

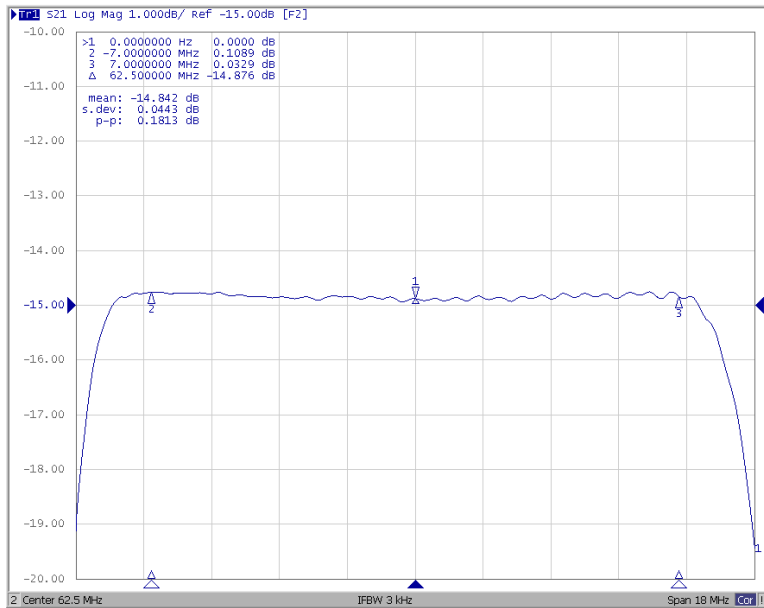




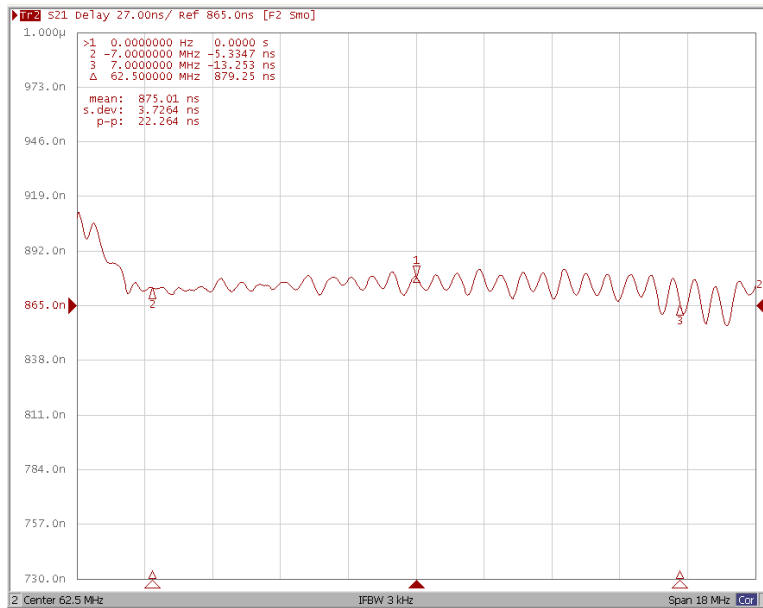
Frequency Characteristics

Frequency Response

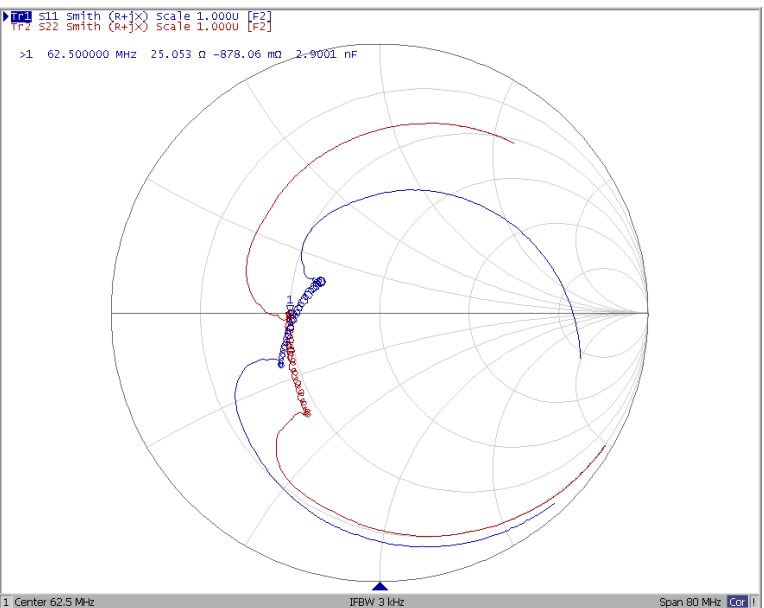
Ripple Variation at $F_o \pm 7\text{MHz}$



Group Delay Variation at $F_o \pm 7\text{MHz}$



Smith Chart



SWR

