



Total Solution Provider in Saw Device

SL06209AT

62.5 MHz IF SAW Filter
10.27 MHz Bandwidth
Revision 0: 22. September. 2008



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

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□ Electrical Characteristics

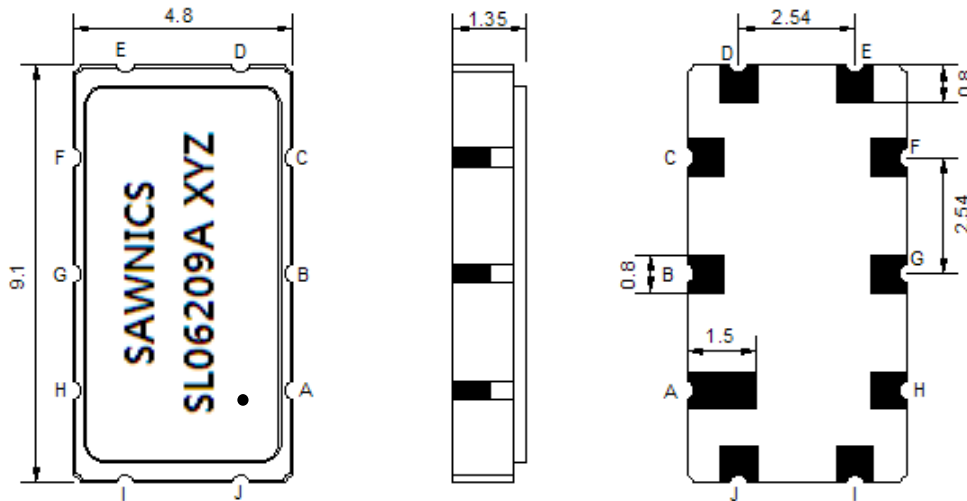
Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	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	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	-	62.50	-
Insertion Loss at Fo	dB	-	11.20	13.00
Group Delay Variation at Fo±4.5MHz	nsec	-	60	
Absolute Delay at Fo	usec	-	0.8	-
Passband Ripple at Fo±4.5MHz	dB	-	0.5	1.0
Bandwidth at -1dB	MHz	9.70	10.27	-
Bandwidth at -3dB	MHz	10.80	11.25	-
Bandwidth at -20dB	MHz	-	14.05	-
Bandwidth at -30dB	MHz	-	14.92	15.50
Bandwidth at -40dB	MHz	-	15.65	-
Relative Attenuation:				
Lower sidelobe	dB	40	45	
Upper sidelobe	dB	40	45	

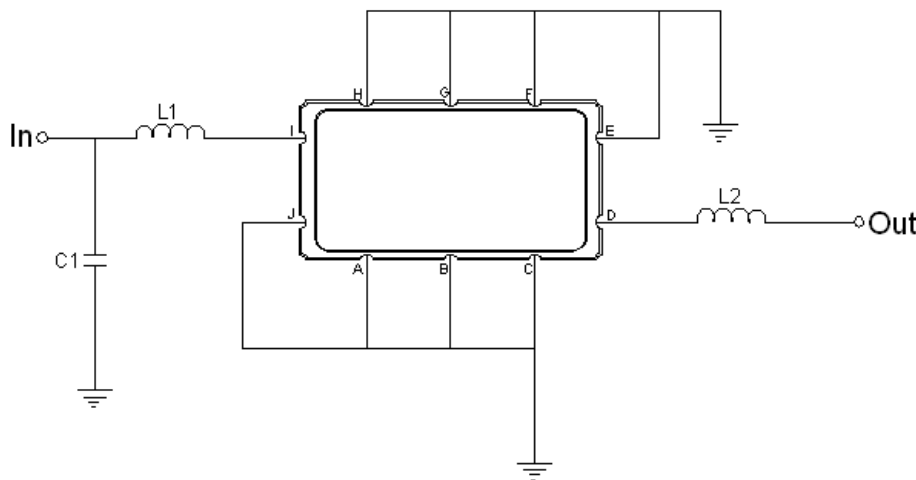
Package Dimensions



- ① SAWNICS: Brand
- ② SL06209A: 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

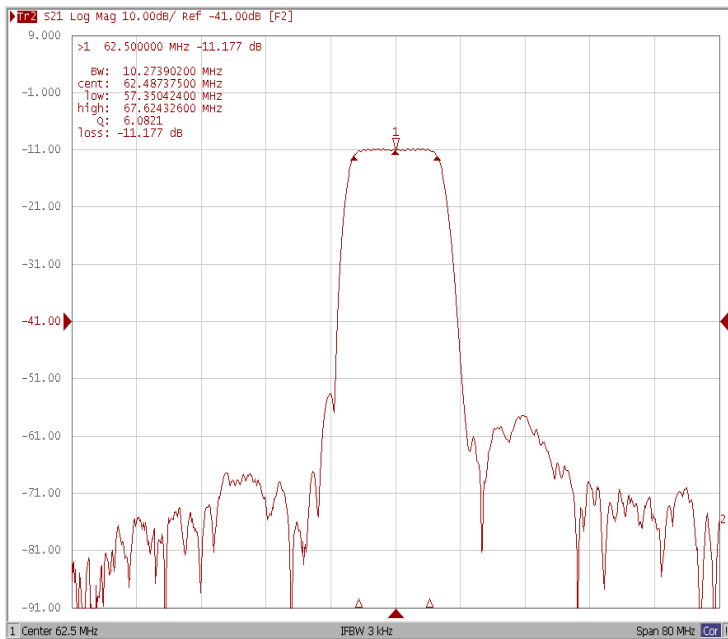


Test Fixture & Values	
Input	L1 = 270 nH , C1 = 15 pF
Output	L2 = 120 nH,
Source/Load Impedance	50 Ω

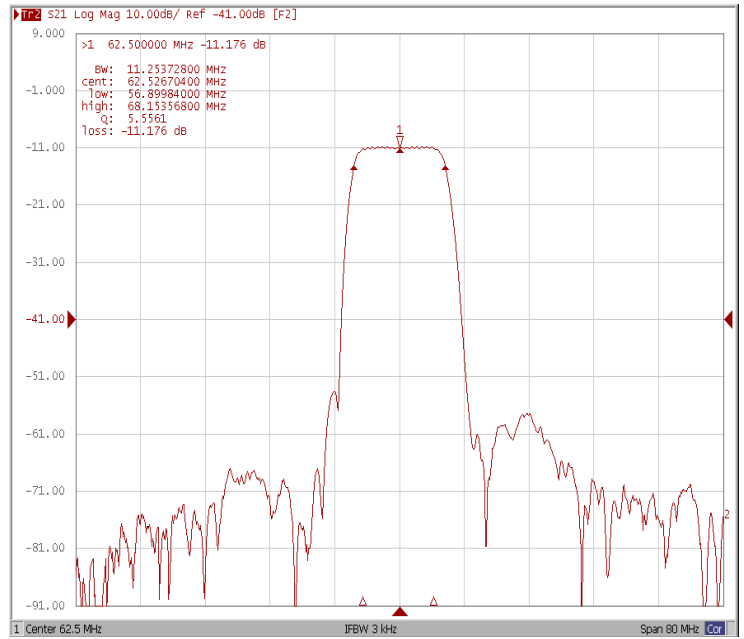
□ Frequency Characteristics

Frequency Response

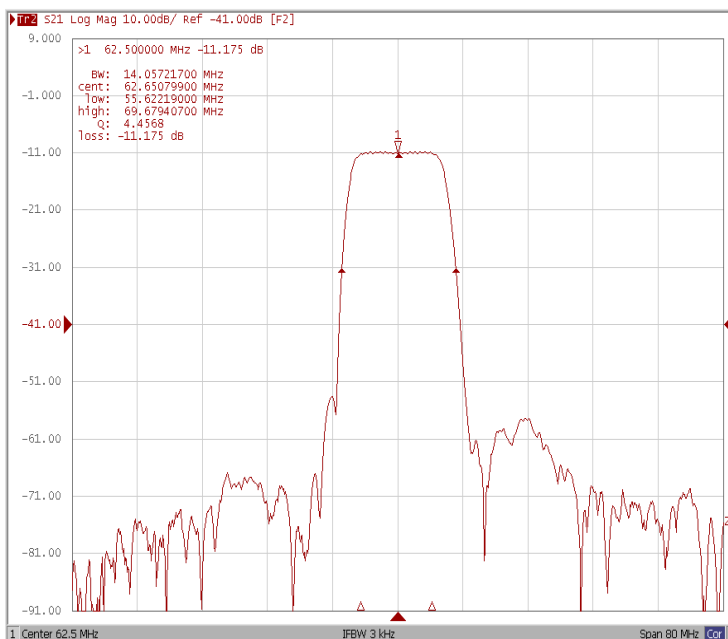
Bandwidth at -1.0 dB



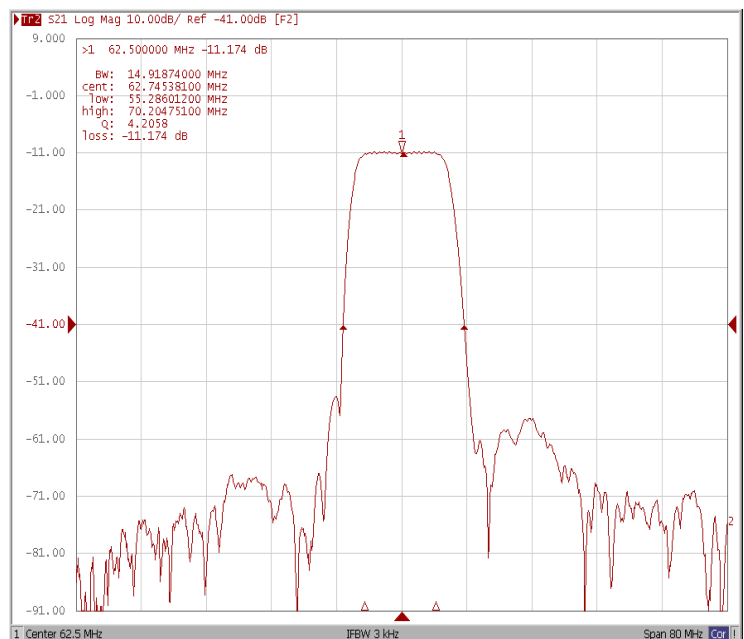
Bandwidth at -3.0 dB



Bandwidth at -20.0 dB



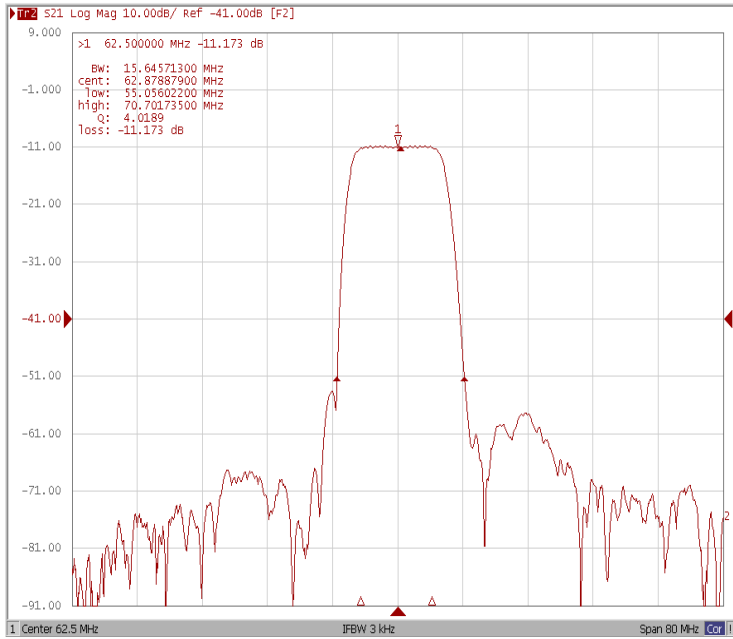
Bandwidth at -30.0 dB



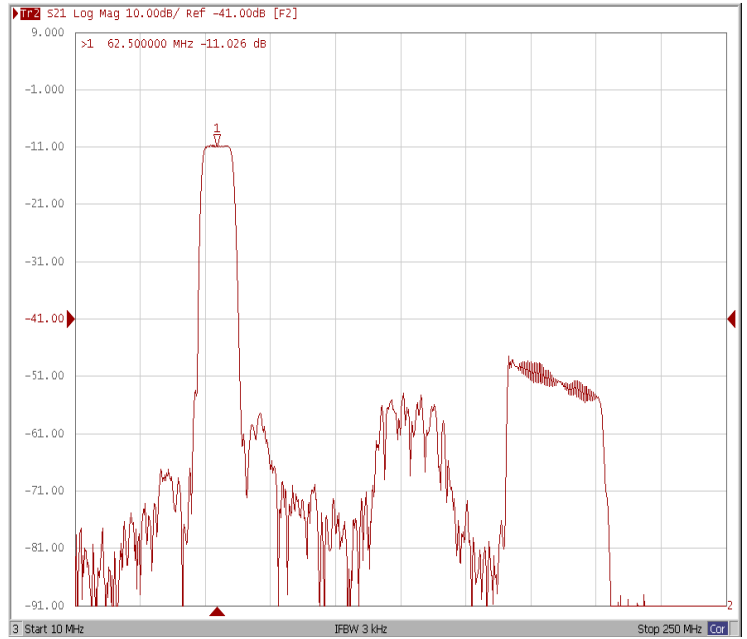


Frequency Response

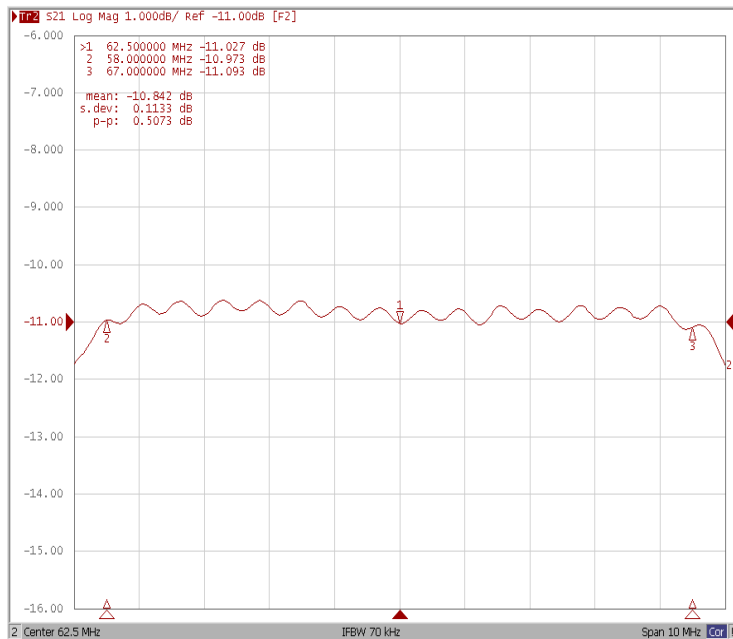
Bandwidth at -40.0 dB



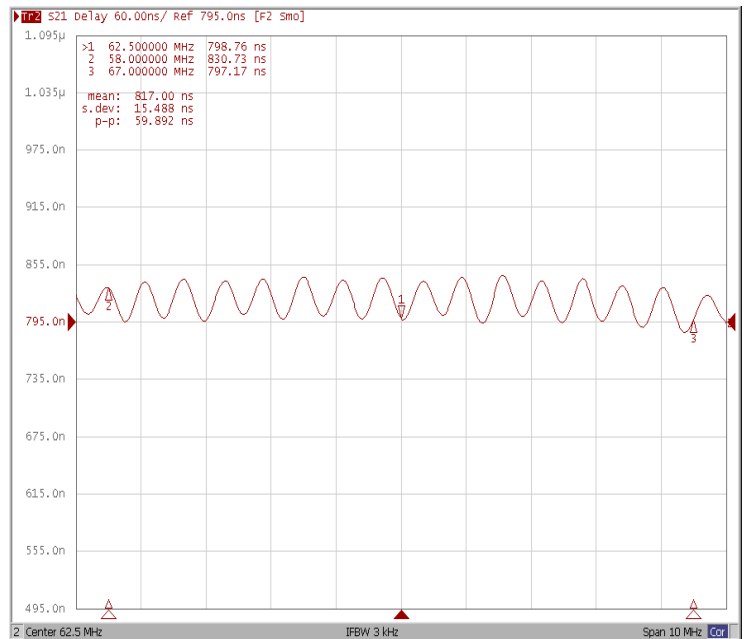
Wide Band



Ripple Variation Fo±4.5MHz



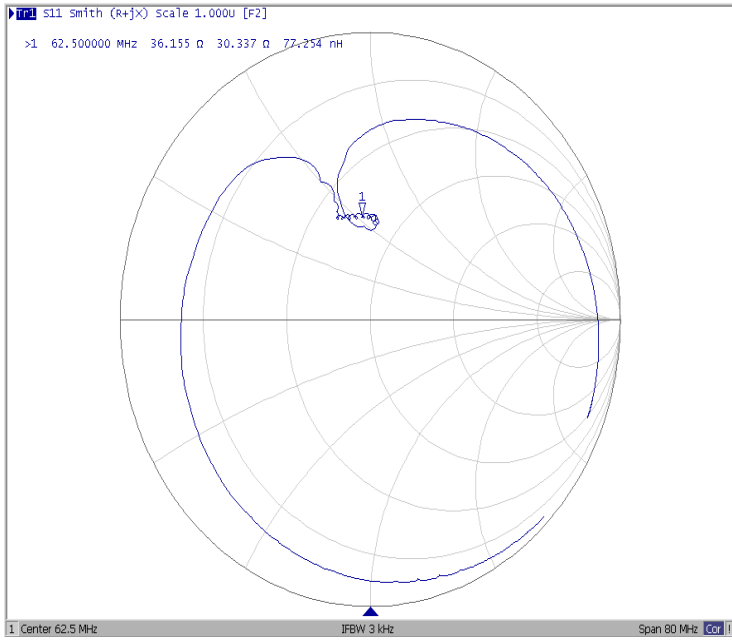
Group Delay Variation Fo±4.5MHz



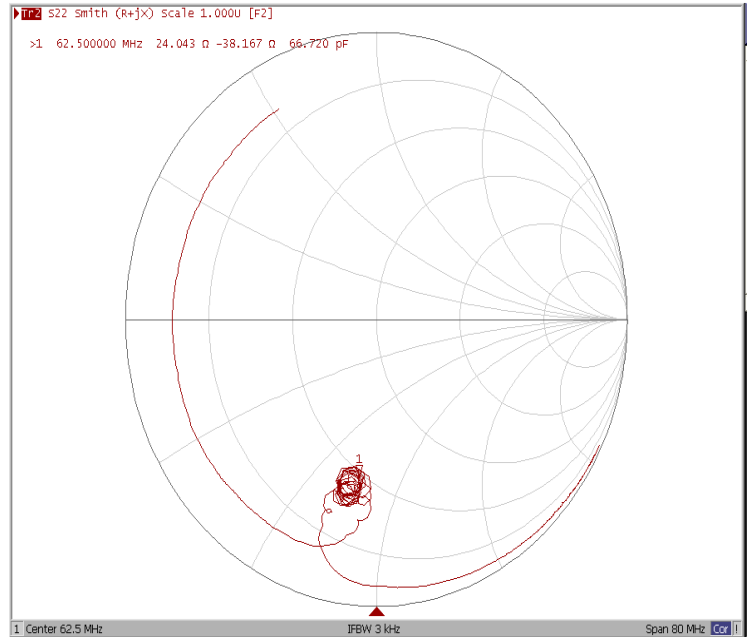


Frequency Response

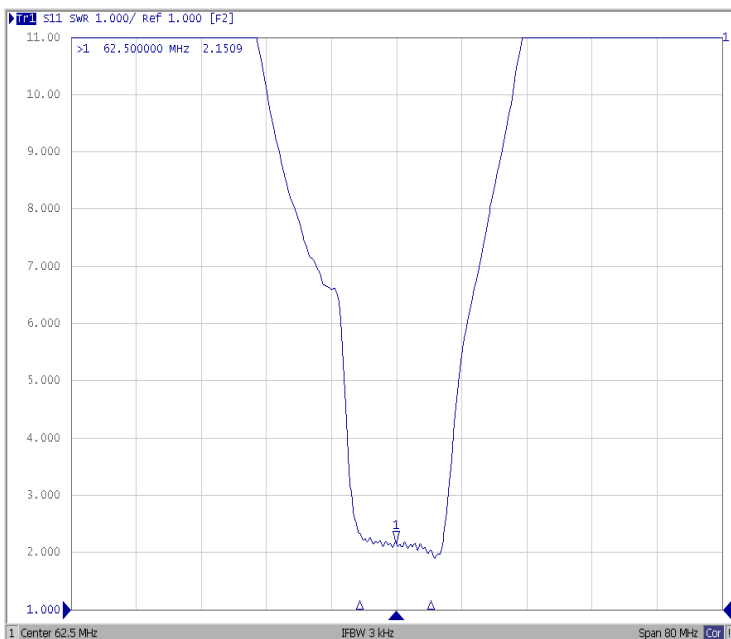
Smith Chart S11



Smith Chart S22



SWR S11



SWR S22

