SL06206CT

62.5 MHz IF SAW Filter
6.62 MHz Bandwidth
Revision 0: 6. Nov. 2008

RoHS compliance
Pb free

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

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❒ Electrical Characteristics

Maximum Ratings

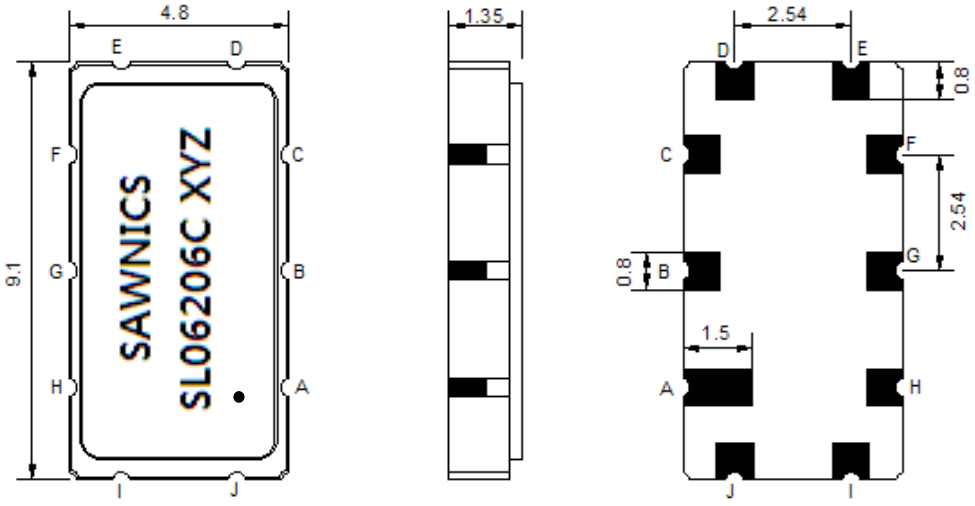
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	T			
Length x Width	mm²	-	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	-	9.6	13.0
Temperature Coefficient		ppm/℃	-	-86	-
Group Delay Variation at Fo±2.4MHz		nsec	-	69	100
Absolute Delay at Fo		usec	-	0.95	-
Passband Ripple at Fo±2.4MHz		dB	-	0.37	0.8
Bandwidth at -1dB		MHz	6.0	6.62	-
Bandwidth at -3dB		MHz	-	7.62	-
Bandwidth at -30dB		MHz	-	10.40	10.80
Ultimate Rejection		dB	-	42	-
VSWR	**Input**	-	-	3.5	-
	Output	-	-	5.5	-

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.

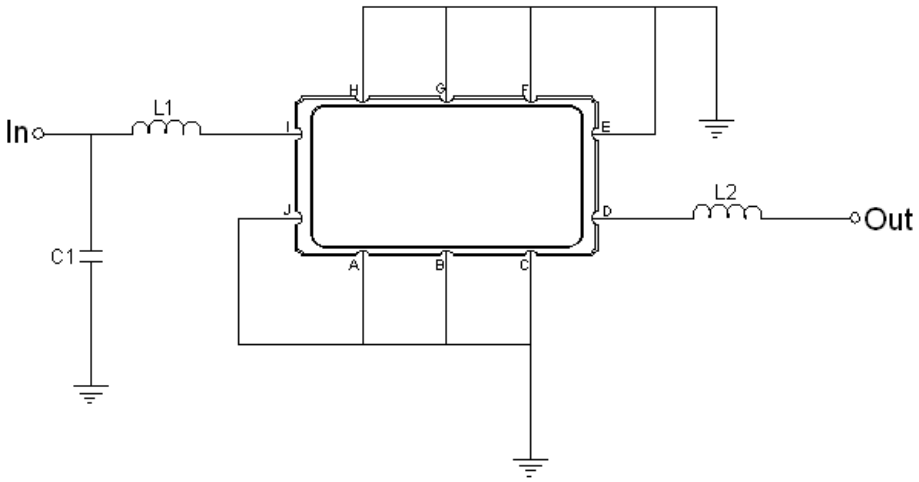
❒ Package Dimensions



① SAWNICS: Brand
② SL06206C: 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

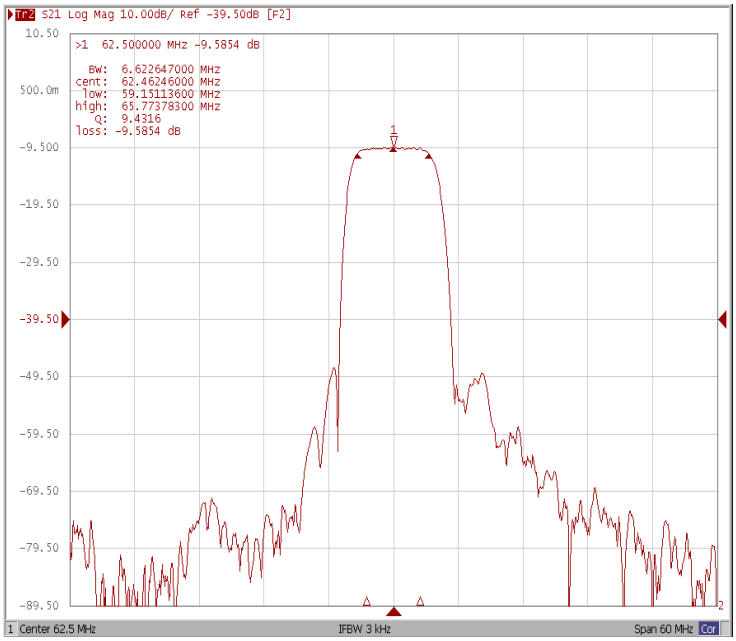


Test Fixture & Values	
Input	L1 = 180 nH , C1 = 91 pF
Output	L2 = 68 nH,
Source/Load Impedance	50 Ω

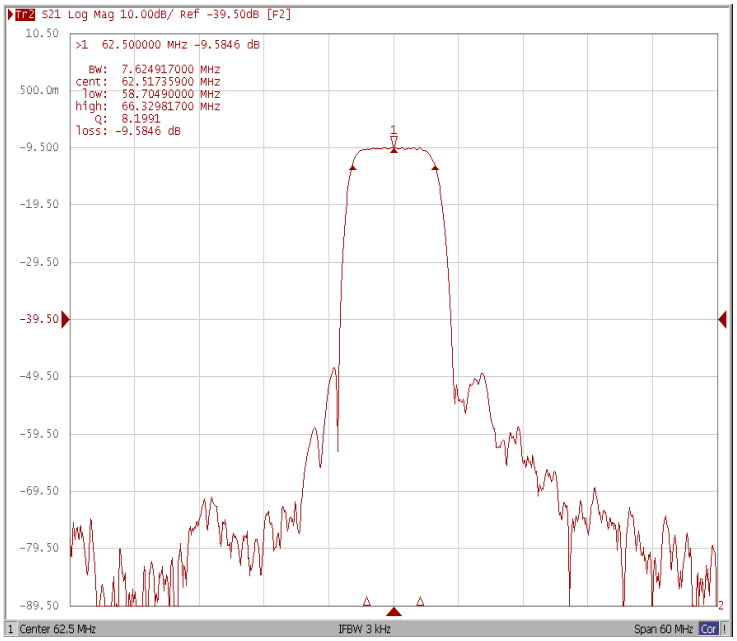
❒ Frequency Characteristics

Frequency Response

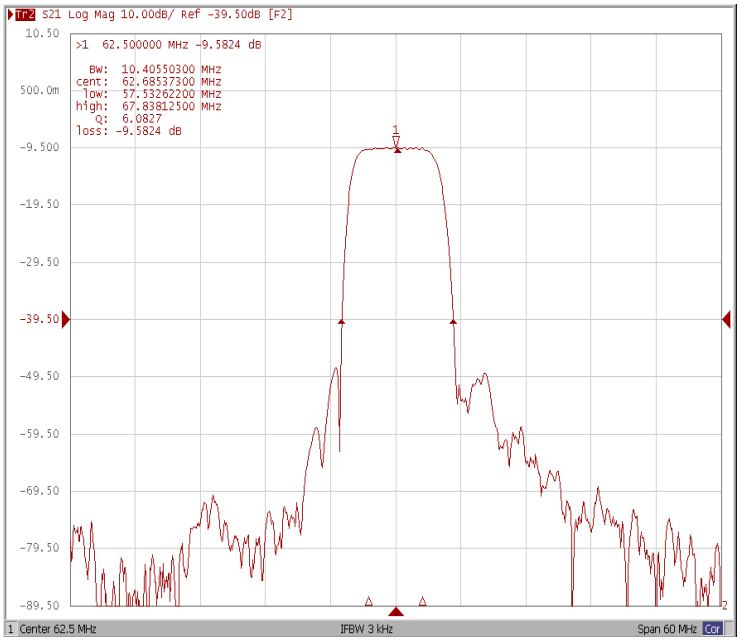
Bandwidth at –1.0 dB



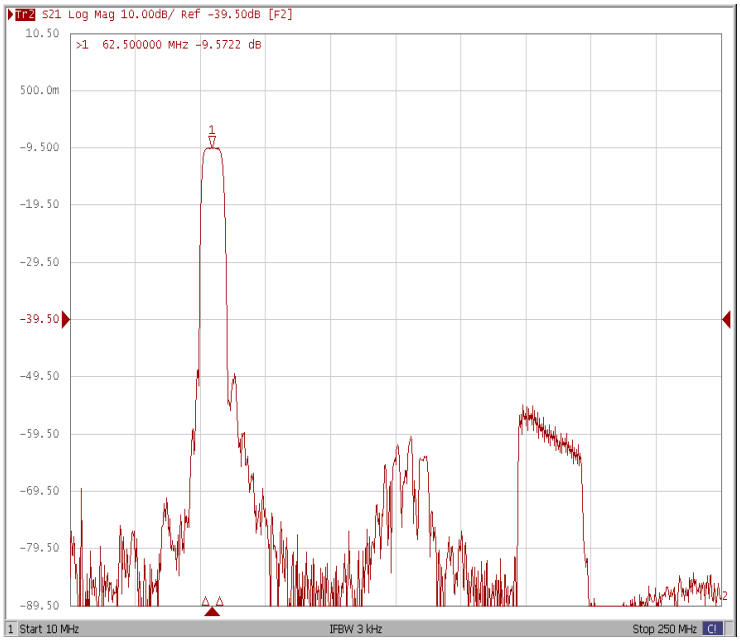
Bandwidth at –3.0 dB



Bandwidth at –30.0 dB



WIDE



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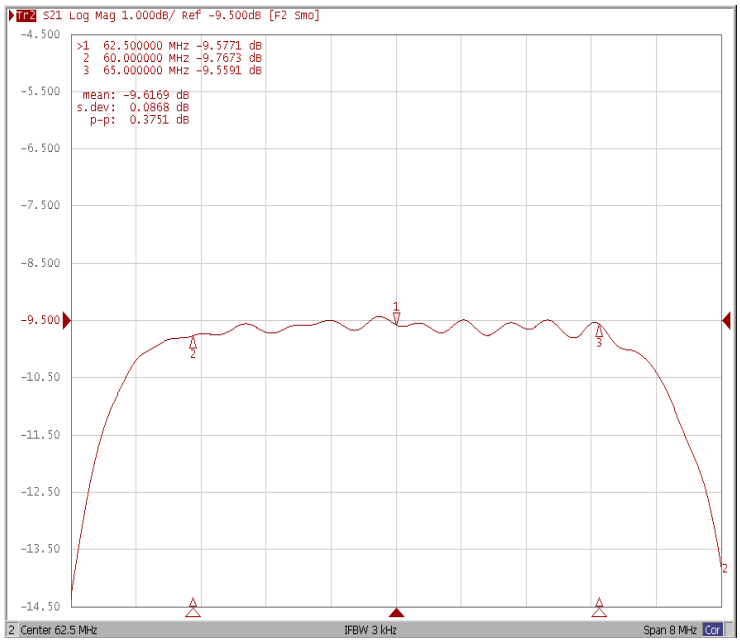
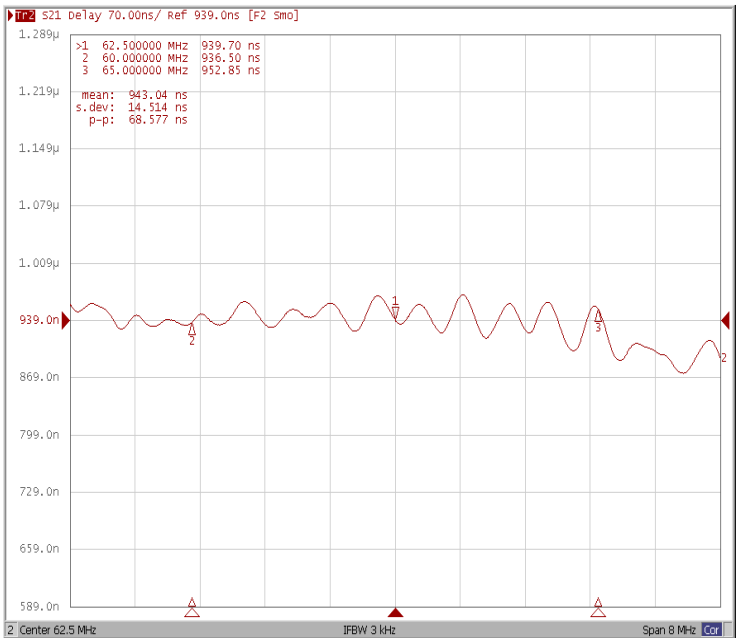
Frequency Response

Ripple Variation Fo±2.4MHz



Group Delay Variation Fo±2.4MHz



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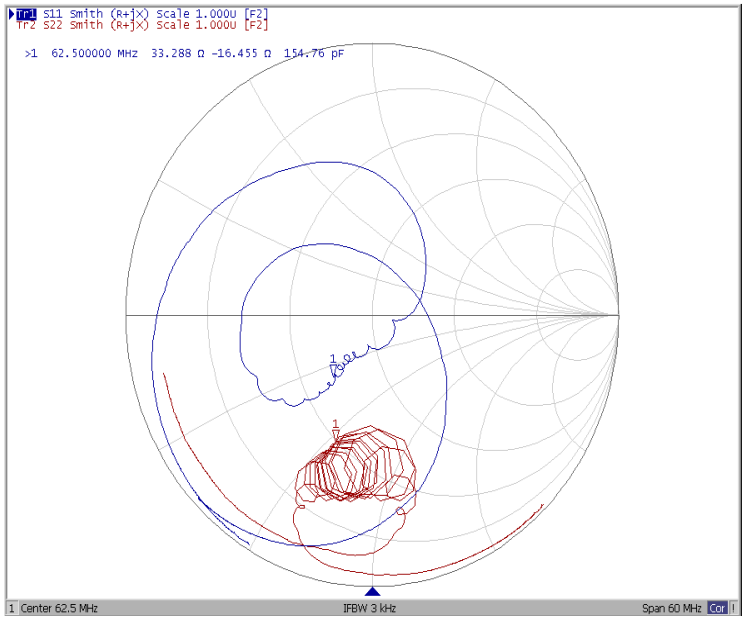

SWR