



*Total Solution Provider in Saw Device*

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# SL06205AV

62.5MHz IF SAW Filter  
5.23MHz Bandwidth  
Revision 0 : 5. March. 2010



- 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	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

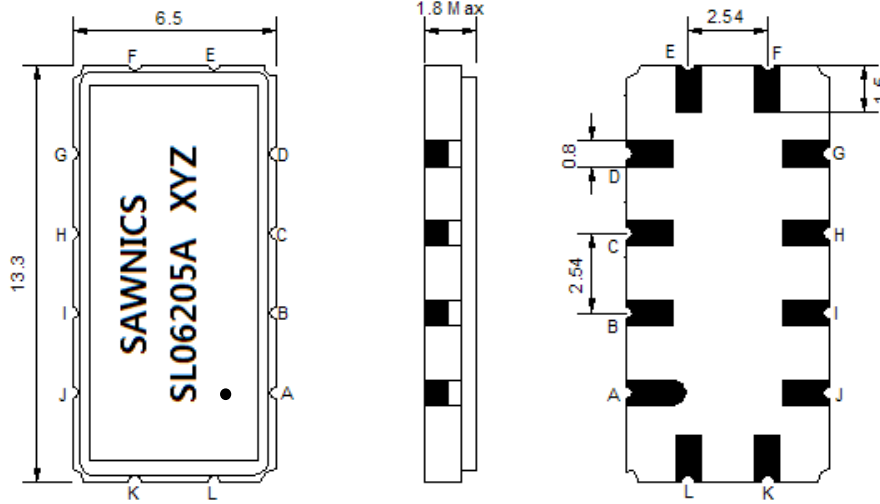
### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	62.40	62.50	62.60
Insertion Loss at Fo	dB	-	15.20	17.00
Group Delay Variation (Fo±2.40MHz)	ns	-	48	80
Absolute Delay Time at Fo	us	-	1.68	1.80
Temperature Coefficient	ppm/°C	-	-18	-
Amplitude Ripple (Fo±2.40MHz)	dB	-	0.40	0.90
Bandwidth at -1dB	MHz	5.00	5.23	-
Bandwidth at -3dB	MHz	5.50	5.70	-
Bandwidth at -40dB	MHz	-	7.65	7.80
Ultimate Rejection	dB	40	47	-

**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.

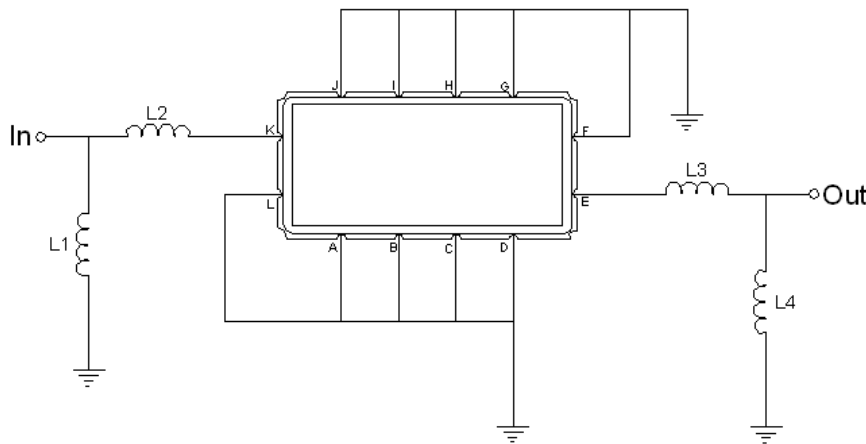
**Package Dimensions**



- ① SAWNICS: Brand
- ② SL06205A: Model Name
- ③ X : Date Code (Year)
- ④ Y : Date Code (Month)
- ⑤ Z : Date Code (Date)
- : Index Dot

Pin Description	
A, B, C, D, F, G, H, I, J, L	Ground
K	Input
E	Output

**Testing Environment**

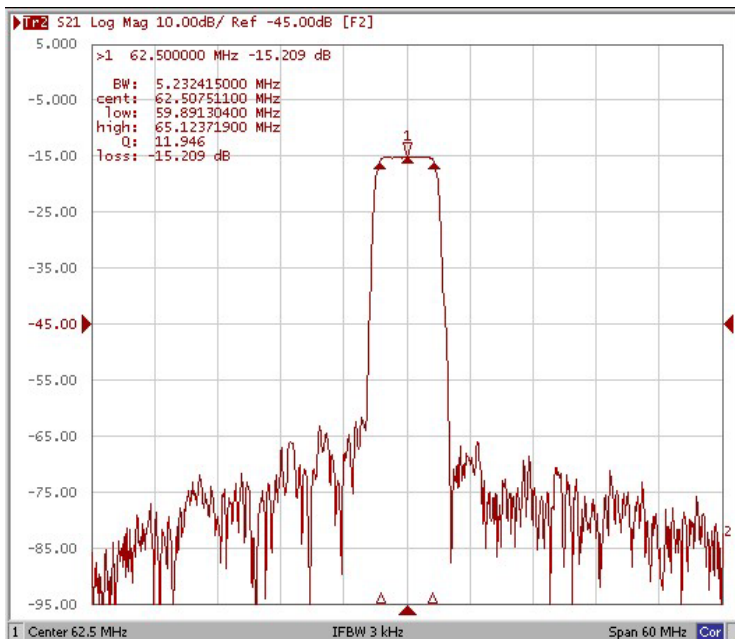


Test Fixture & Values	
Input	L1 = 56 nH, L2 = 12nH
Output	L3 = 12 nH, L4 = 56nH
Source/Load Impedance	50 Ω

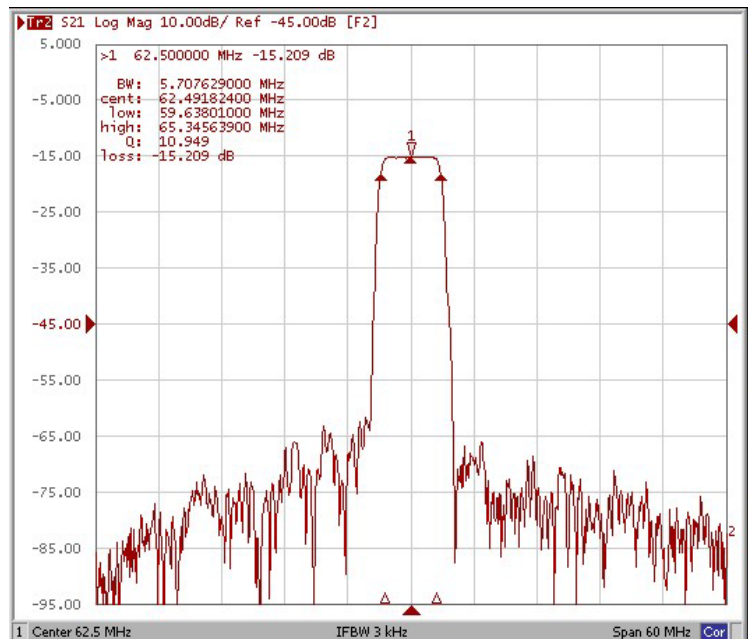
### □ Frequency Characteristics

#### Frequency Response

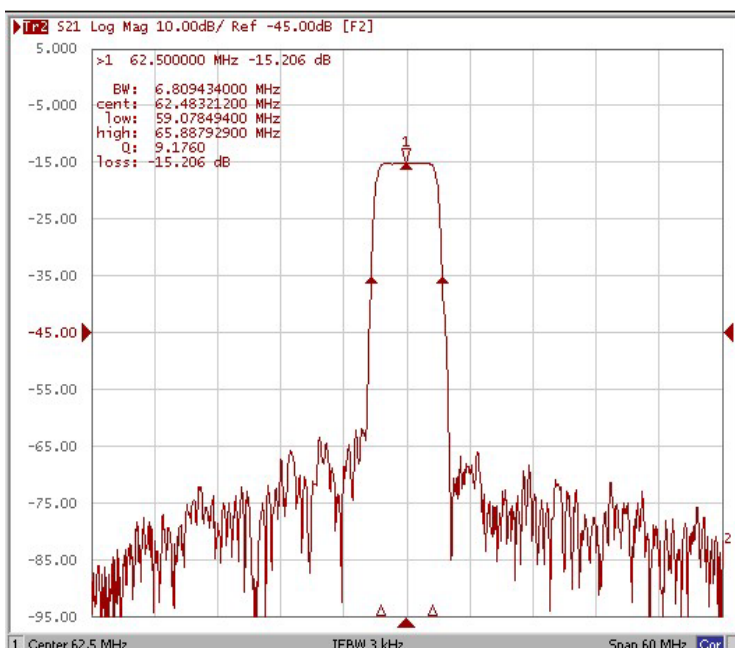
Bandwidth at -1.0 dB



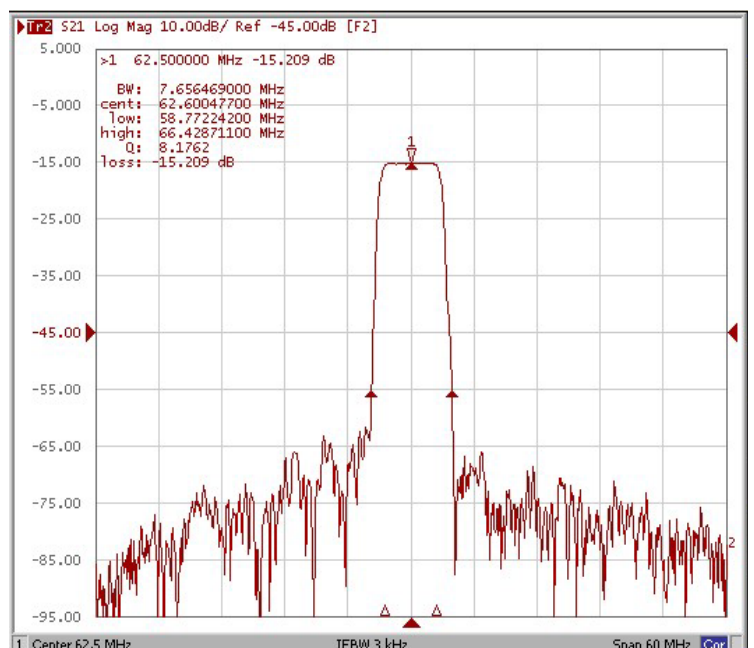
Bandwidth at -3.0 dB



Bandwidth at -20.0 dB



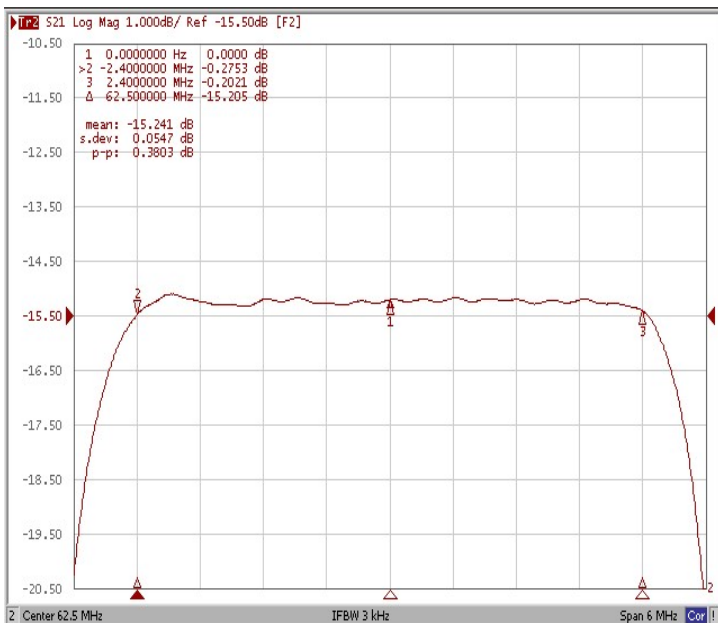
Bandwidth at -40.0 dB



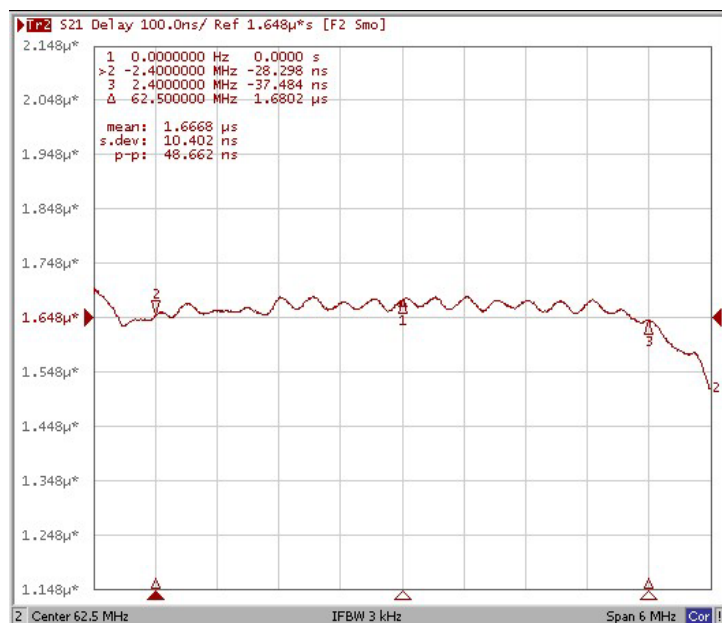
### Frequency Characteristics

#### Frequency Response

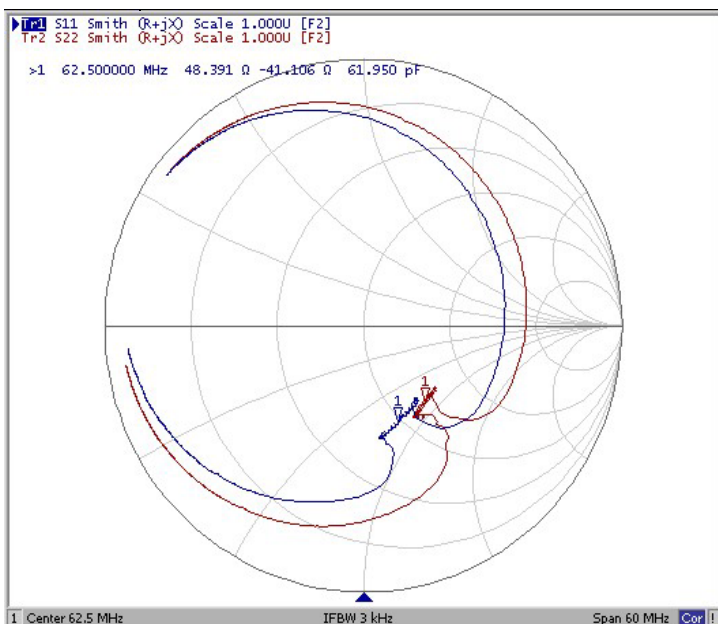
Ripple Variation  $F_o \pm 2.40\text{MHz}$



Group Delay Variation  $F_o \pm 2.40\text{MHz}$



Smith Chart



VSWR

