



*Total Solution Provider in Saw Device*

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# SA06219ED1

62.5 MHz IF SAW Filter  
19.45 MHz Bandwidth  
Revision 0: 3. September. 2008

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

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## □ Electrical Characteristics

### Maximum Ratings

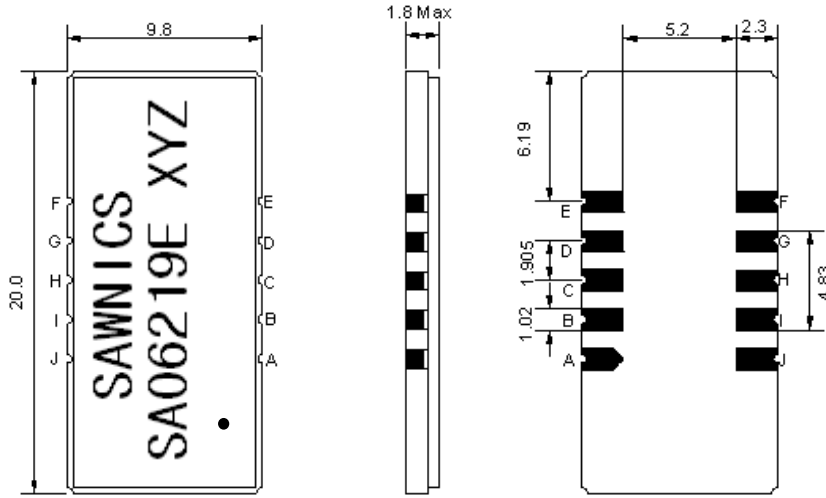
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	D1			
Length x Width	mm <sup>2</sup>	-	20.0 x 9.8	-
Height	mm	-	-	1.8

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	21.5	23.0
Group Delay Variation	ns	-	40	55
Absolute Delay at Fo	us	-	1.84	-
Passband Ripple Variation	dB	-	0.50	1.00
Bandwidth at -1dB	MHz	-	19.45	-
Bandwidth at -3dB	MHz	17.9	20.00	-
Bandwidth at -50dB	MHz	-	21.90	22.1
Ultimate Rejection	dB	45	50	-
Temperature coefficient	ppm/°C	-	-72	-

**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.

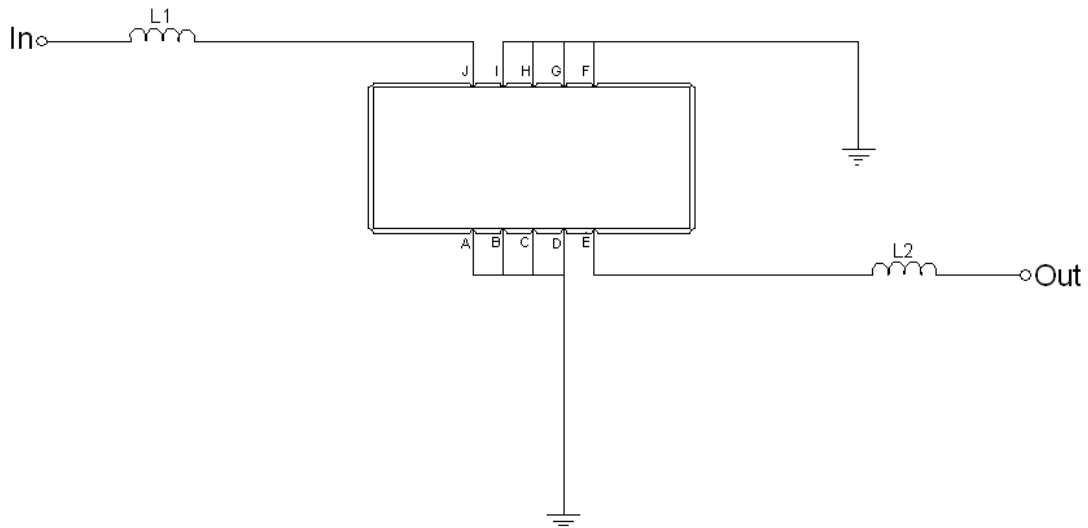
### □ Package Dimensions



- ① SAWNICS: Brand
- ② SA06219E: 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	Ground
J	Input
E	Output

### □ Testing Environment



Test Fixture & Values	
Input	L1=270nH
Output	L2=220nH
Source/Load Impedance	50 Ω

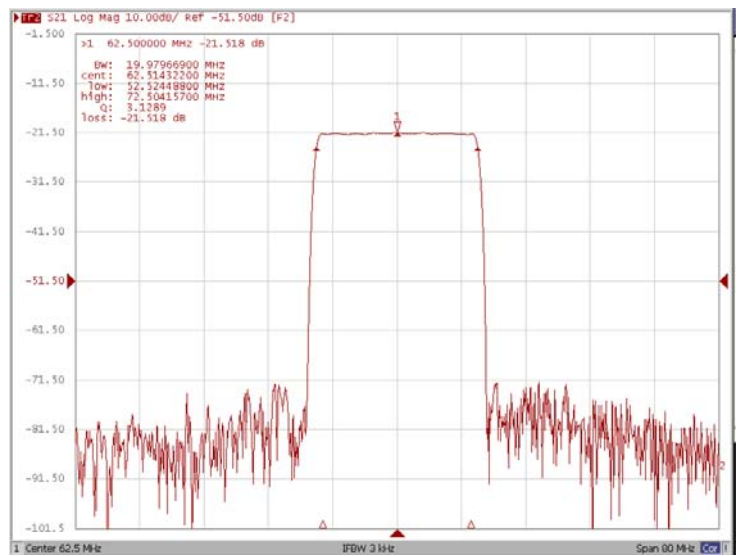
### □ Frequency Characteristics

#### Frequency Response

**Bandwidth at -1.0 dB**



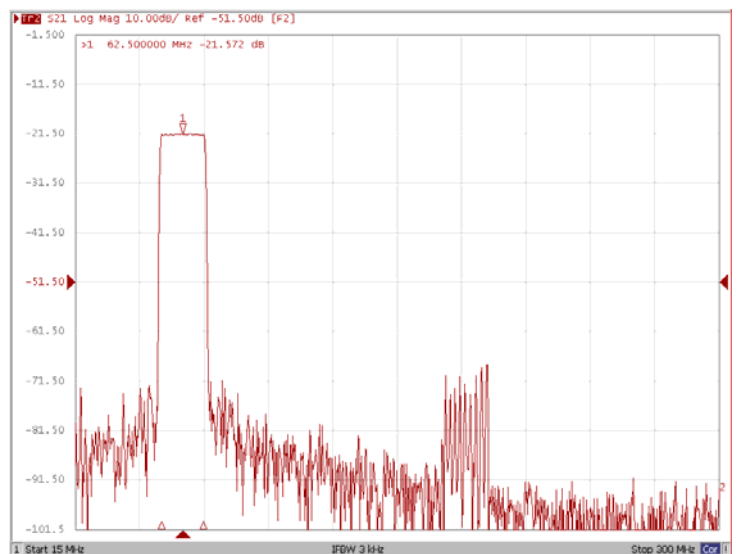
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



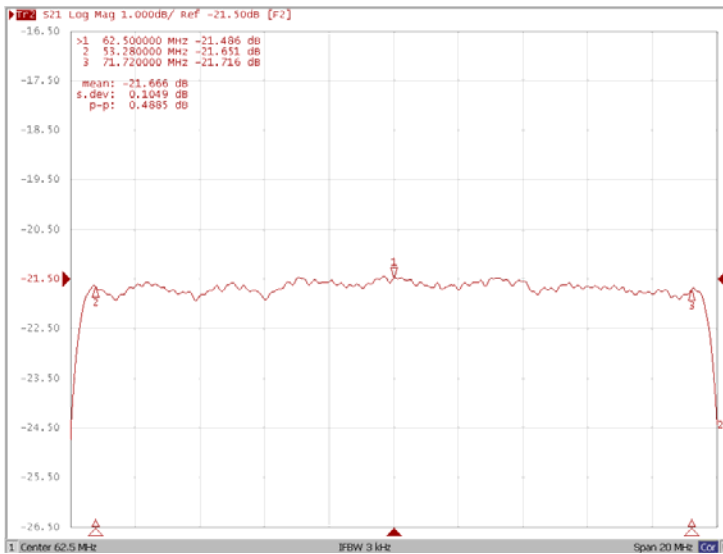
**Wide Band**



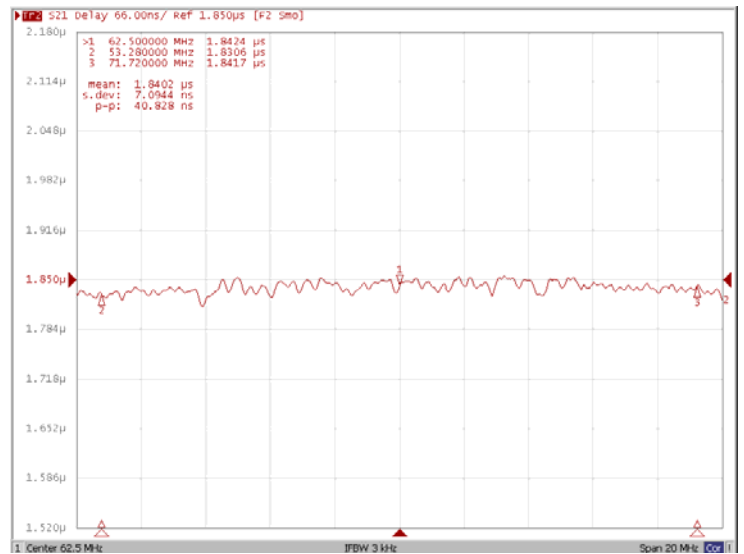
### Frequency Characteristics

#### Frequency Response

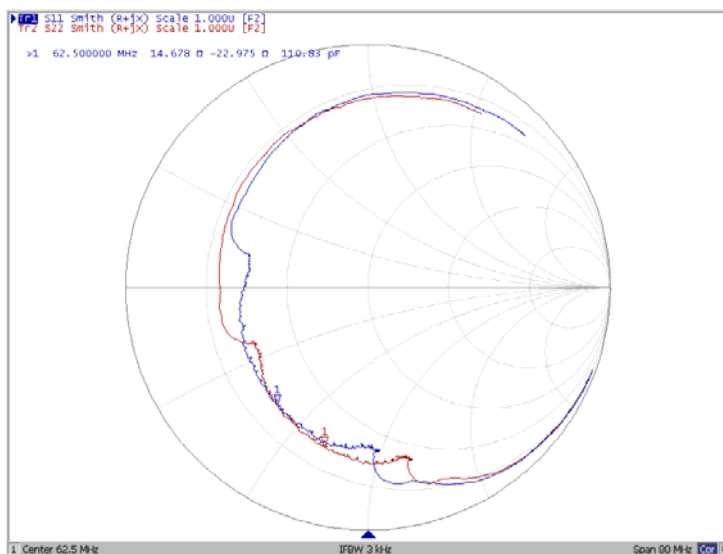
Ripple Variation



Group Delay Variation



Smith Chart



VSWR

