



*Total Solution Provider in Saw Device*

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# SL07017AV

70.00 MHz IF SAW Filter  
17.20 MHz Bandwidth  
Revision 0 : 16. December. 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	-	70
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

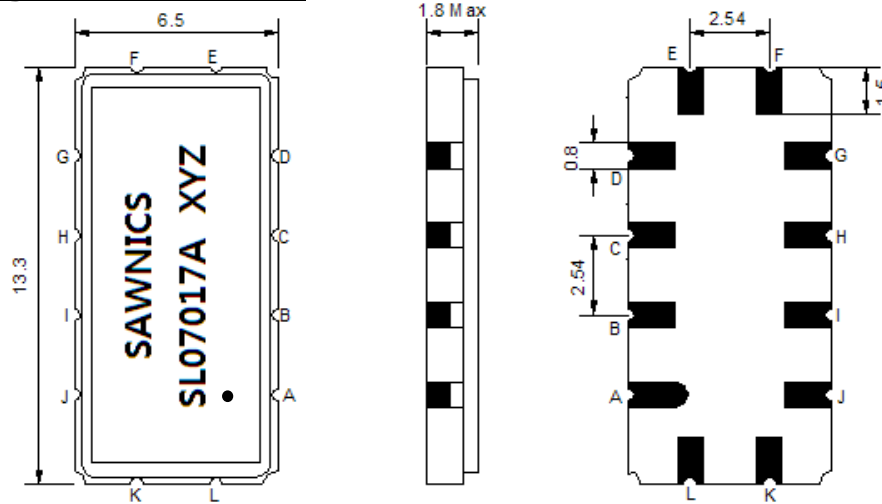
### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70.00	-
Insertion Loss at Fo	dB	-	12.80	14.50
Group Delay Variation (Fo±7.50MHz)	ns	-	16	35
Absolute Delay Time at Fo	us	-	0.98	-
Amplitude Ripple (Fo±7.50MHz)	dB	-	0.20	0.70
Bandwidth at -1dB	MHz	17.00	17.20	-
Bandwidth at -10dB	MHz	-	19.30	19.45
Bandwidth at -20dB	MHz	-	20.30	20.45
Bandwidth at -40dB	MHz	-	21.40	-
Ultimate Rejection	dB	40	46	-
Temperature Coefficient	ppm/°C	-	-86	-

**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.

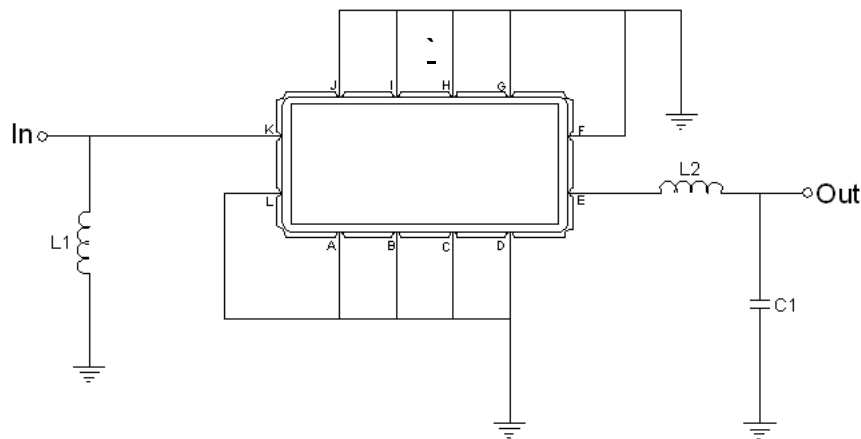
### Package Dimensions



- ① SAWNICS: Brand
- ② SL07017A: 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



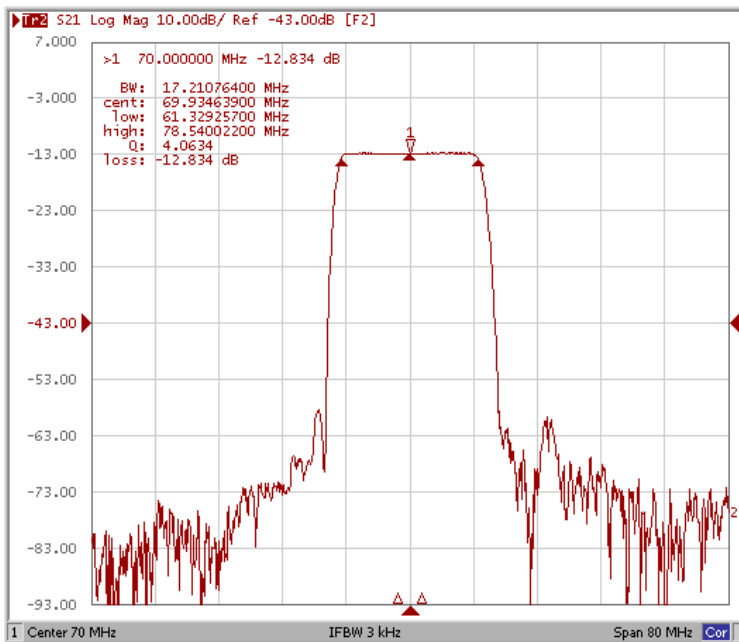
Test Fixture & Values	
Input	L1 = 100 nH
Output	L2 = 120 nH , C2 = 27 pF
Source/Load Impedance	50 Ω

### Frequency Characteristics

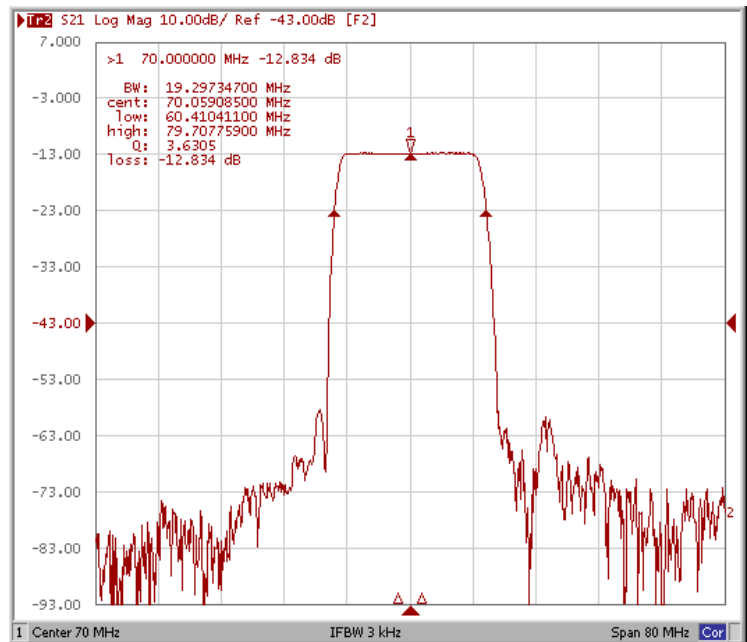
#### Frequency Response

Room Temperature : +25 °C

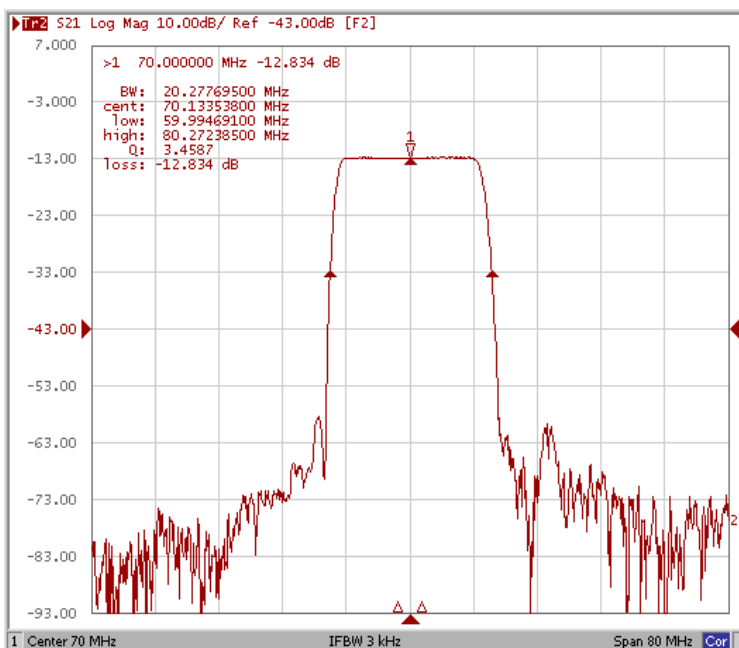
Bandwidth at -1.0 dB



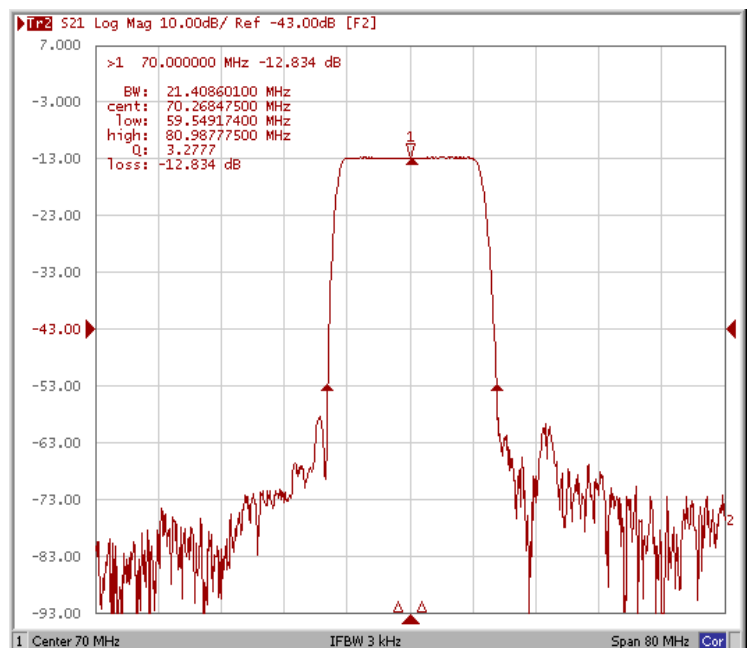
Bandwidth at -10.0 dB



Bandwidth at -20.0 dB



Bandwidth at -40.0 dB

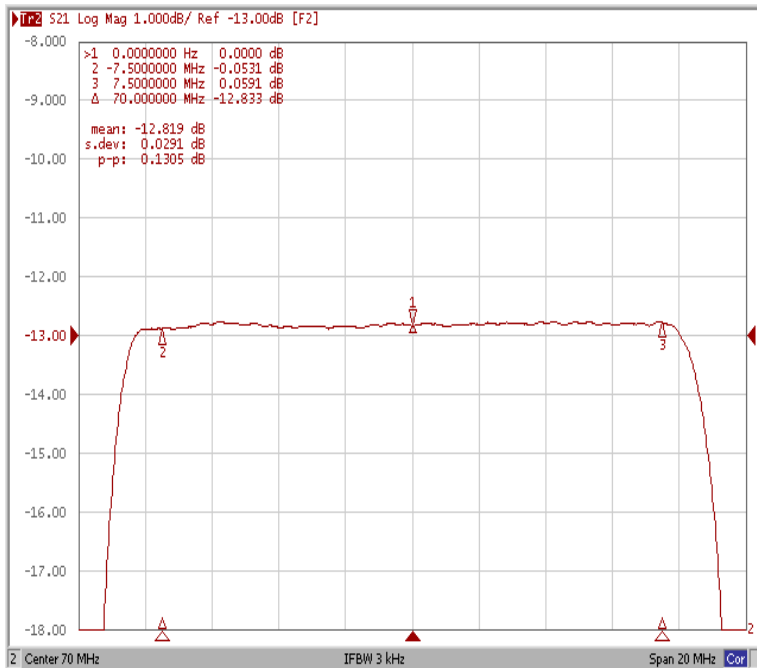




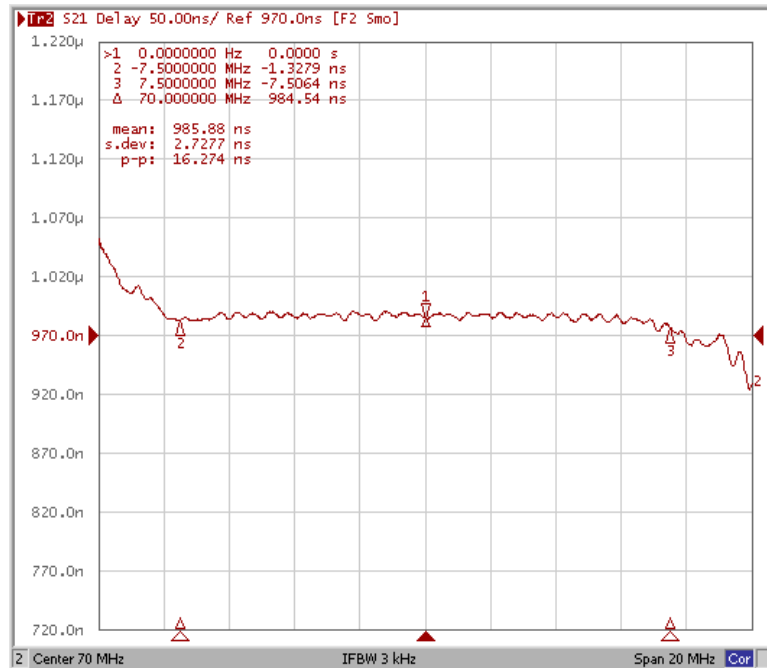
**Frequency Characteristics**

**Frequency Response**

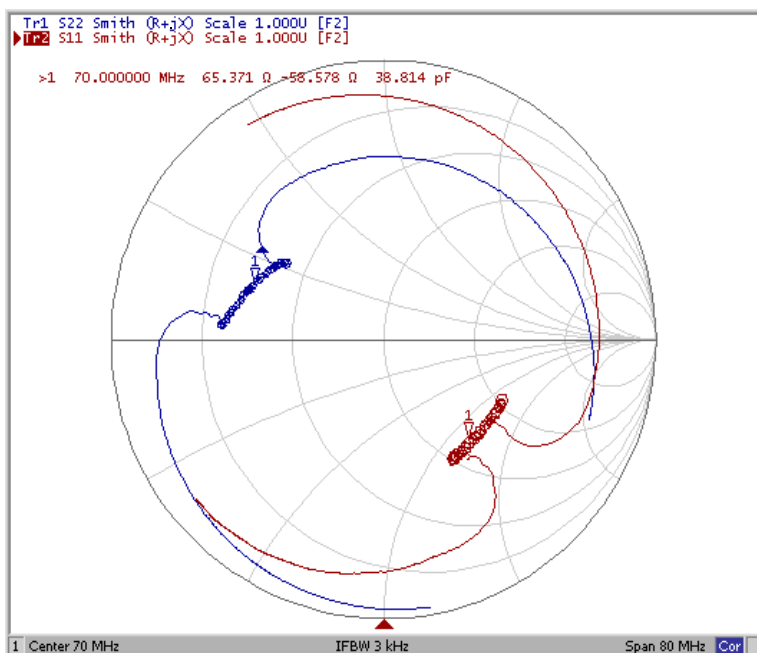
**Ripple Variation Fo±7.50MHz**



**Group Delay Variation Fo±7.50MHz**



**Smith Chart**



**SWR**

