



*Total Solution Provider in Saw Device*

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# SA06219CD

62.5MHz IF SAW Filter

20.25Hz Bandwidth

Revision 0: 13. June. 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	-	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	D			
Length x Width	mm <sup>2</sup>	-	20.0x12.6	-
Height	mm	-	-	5.05

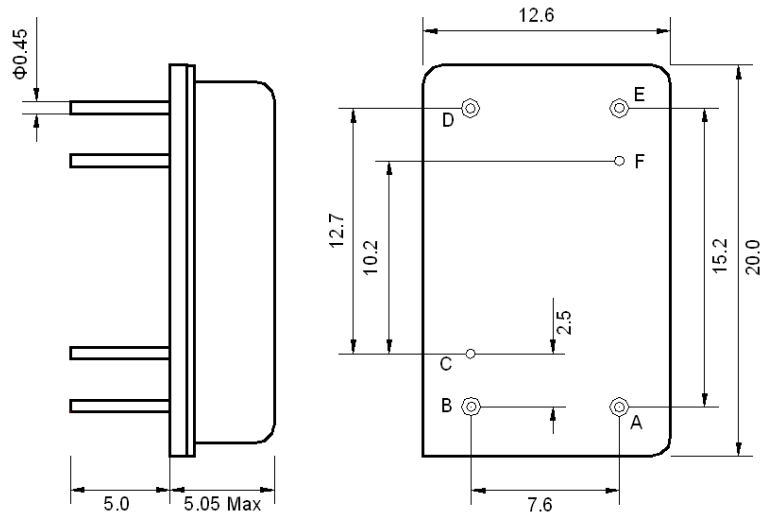
### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	62.4	62.5	62.6
Insertion Loss at Fo	dB	-	23.0	25.0
Amplitude Ripple Variation within Fo ±9.90 MHz	dB <sub>p-p</sub>	-	0.50	1.0
Group Delay Variation within Fo ±9.90 MHz	nsec	-	30	100
Absolute Delay at Fo	µsec	-	1.83	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	20.00	20.27	-
Bandwidth at -3.0 dB	MHz	-	20.73	-
Bandwidth at -10.0 dB	MHz	-	21.46	-
Bandwidth at -40.0 dB	MHz	-	22.58	22.70
<b>Attenuation Rejection</b>				
Lower Sidelobe	dB	48	52	
Upper Sidelobe	dB	48	52	

**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

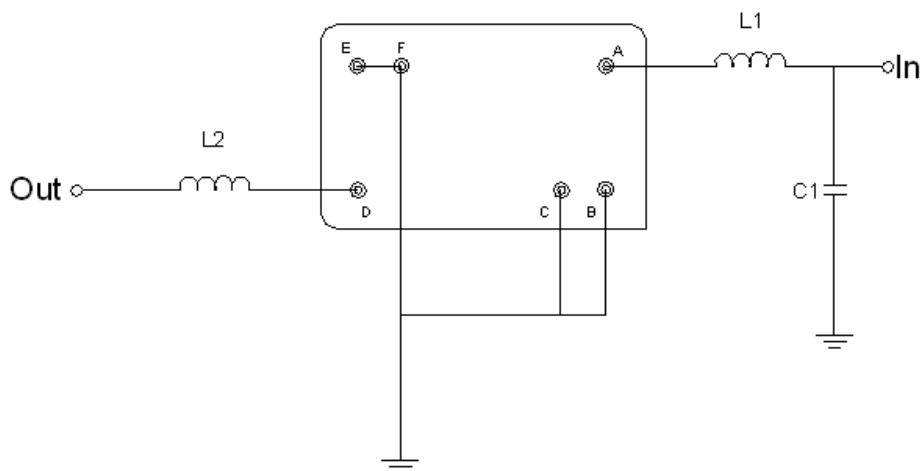
Those impedances could be modified with different impedance values and/or structures, if necessary.

**Package Dimensions**



Pin Description	
B, C, D, F	Ground
A	Input
E	Output

**Testing Environment**



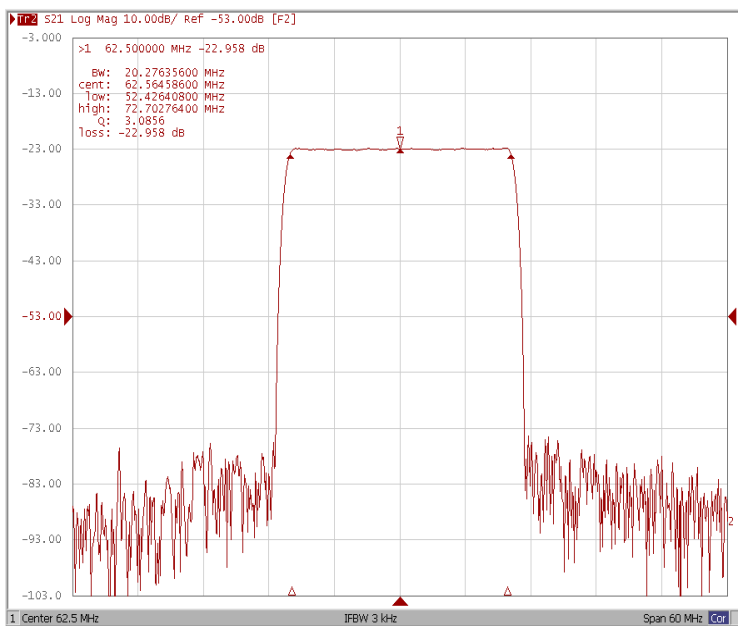
Test Fixture & Values	
Input	L1 = 270 nH, C1 = 6 pF
Output	L2 = 220 nH
Source/Load Impedance	50 $\Omega$



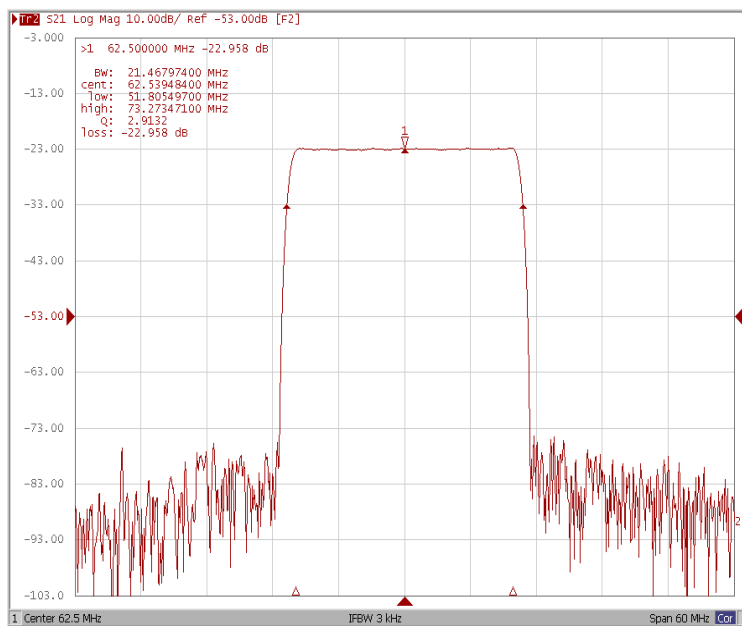
### Frequency Characteristics

#### Frequency Response

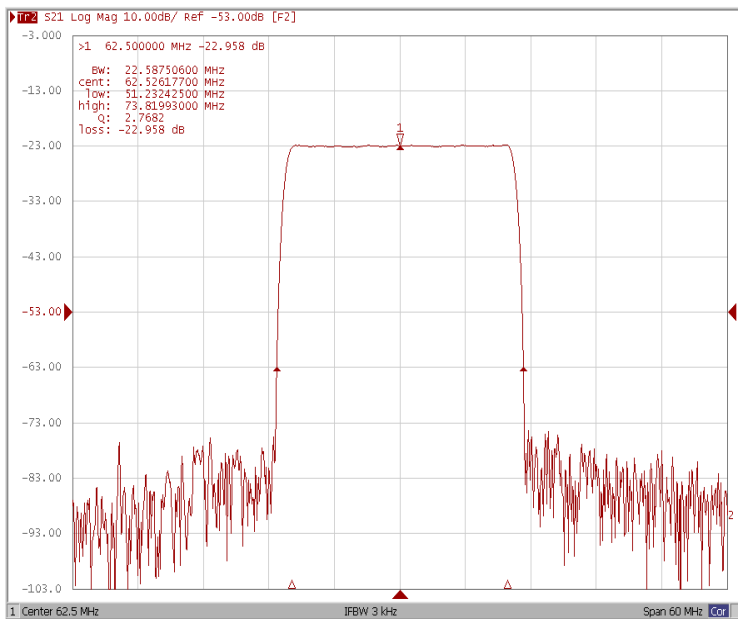
Bandwidth at -1.0 dB



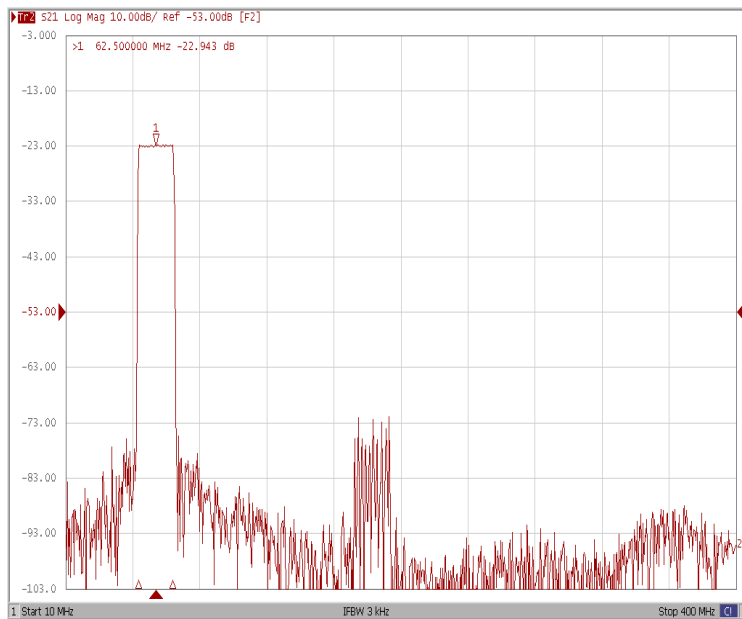
Bandwidth at -10.0 dB



Bandwidth at -40.0 dB



Wide-Band

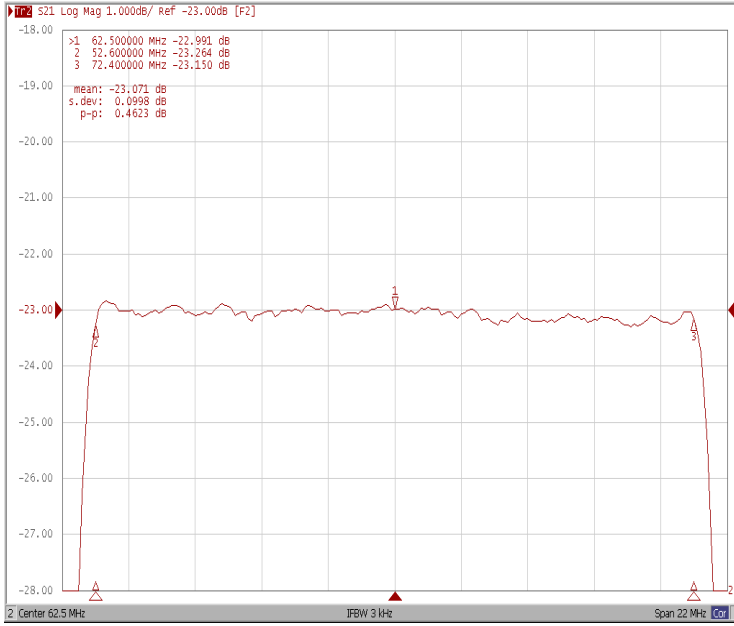




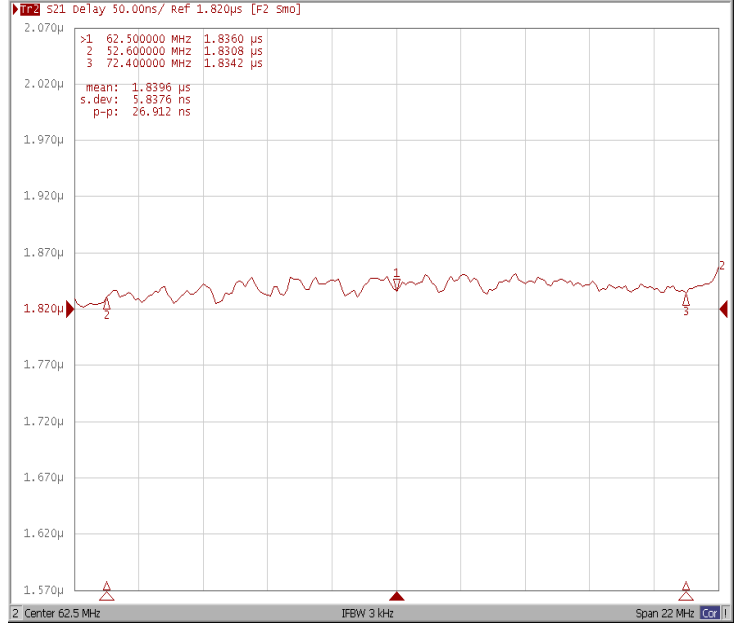
### Frequency Characteristics

#### Frequency Response

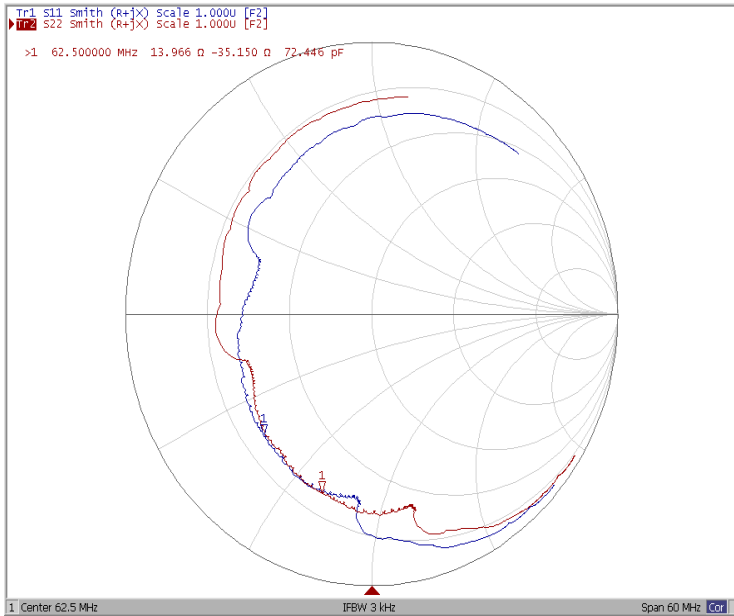
Ripple Variation Fo±9.90MHz



Group Delay Variation Fo±9.90MHz



Smith Chart



SWR

