SA06219AD

62.5MHz IF SAW Filter
19.4MHz Bandwidth
Revision 0: 30. January. 2008

RoHS compliance
Pb free

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

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❒ Electrical Characteristics

Maximum Ratings

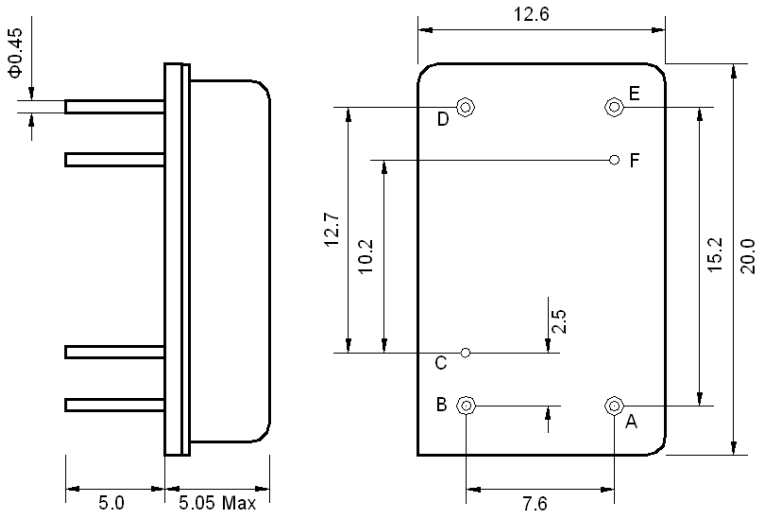
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	D			
Length x Width	mm²	-	20.0x12.6	-
Height	mm	-	-	5.05

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	21.4	23.0
Amplitude Ripple Variation within Fo ±9.22 MHz	dB_{p-p}	-	0.4	1.0
Group Delay Variation within Fo ±9.22 MHz	nsec	-	35	70
Absolute Delay at Fo	µsec	-	1.64	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at –1.0 dB	MHz	-	19.4	-
Bandwidth at –3.0 dB	MHz	19.8	19.94	-
Bandwidth at –40.0 dB	MHz	-	22.09	22.15
Attenuation Rejection				
Lower Sidelobe	dB	45	50	
Upper Sidelobe	dB	45	48	-

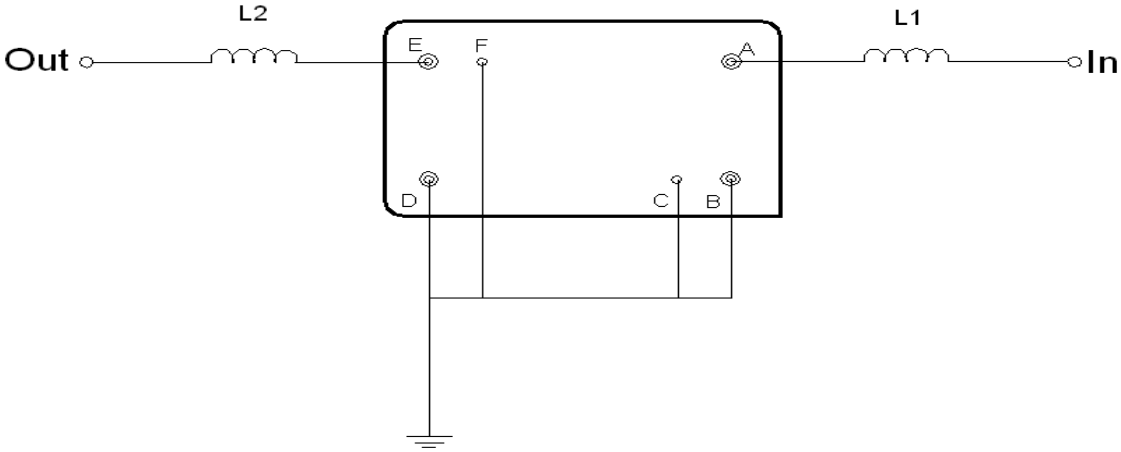
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

❒ Package Dimensions



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

❒ Testing Environment

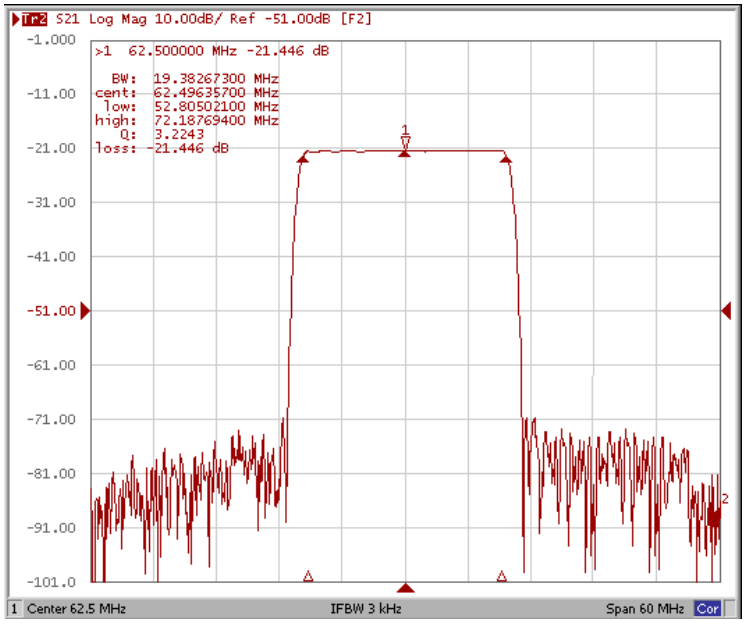


Test Fixture & Values	
Input	L1 = 220 nH
Output	L2 = 220 nH
Source/Load Impedance	50 Ω

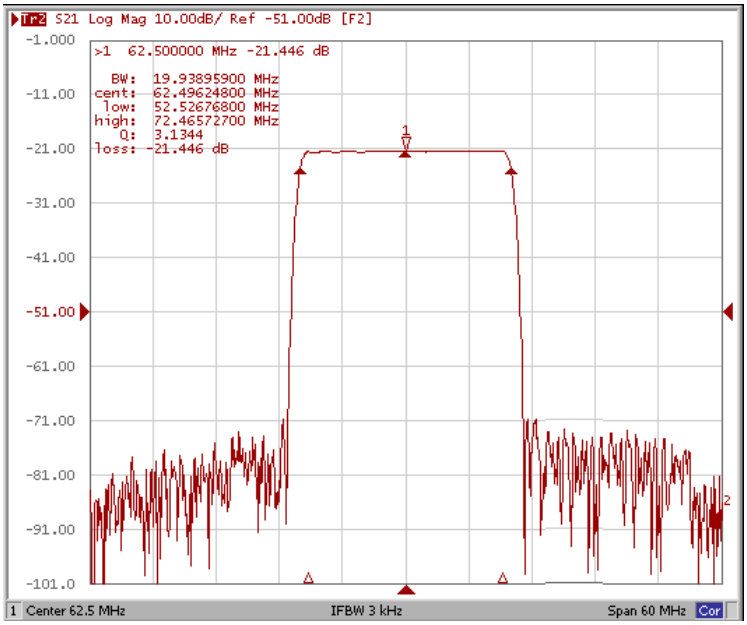
❒ Frequency Characteristics

Frequency Response

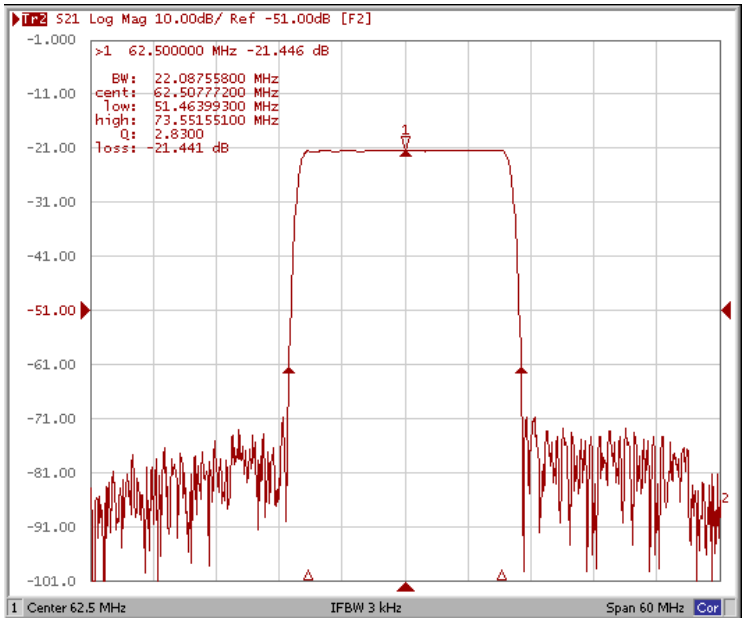
Bandwidth at –1.0 dB



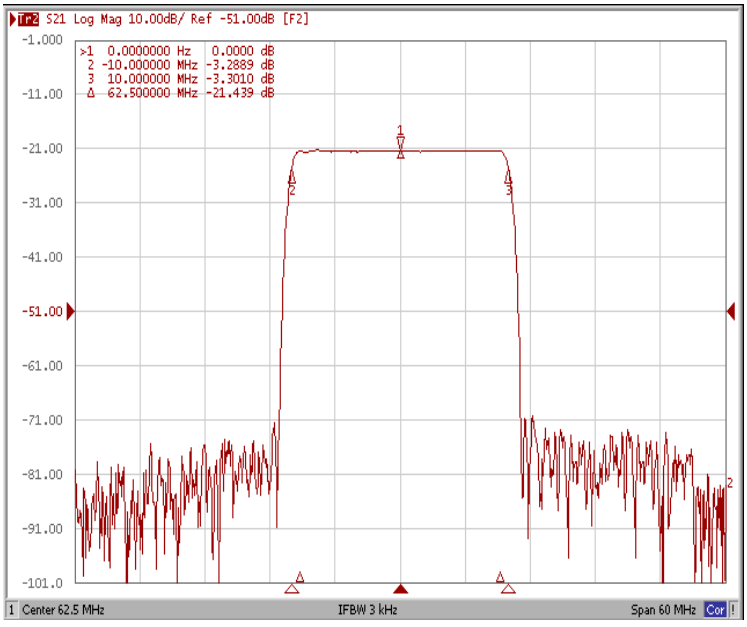
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



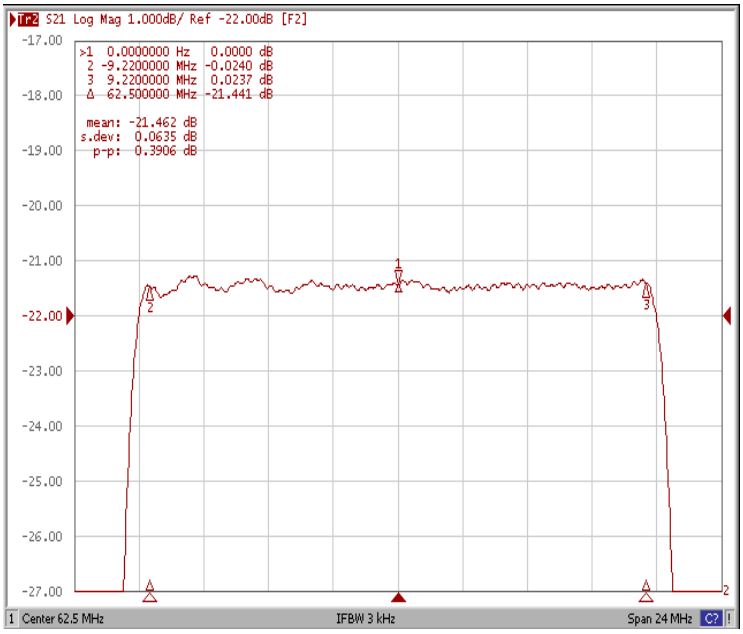
Attenuation Fo ±10.0 MHz



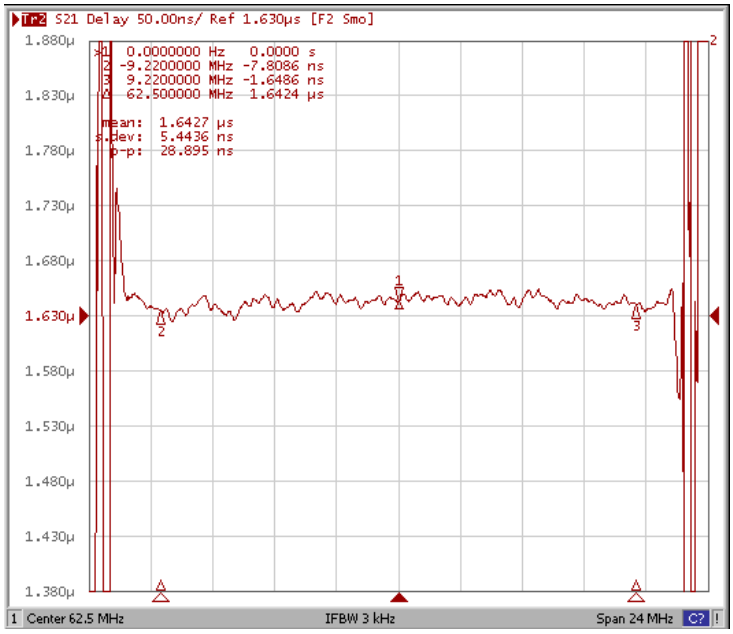
❒ Frequency Characteristics

Frequency Response

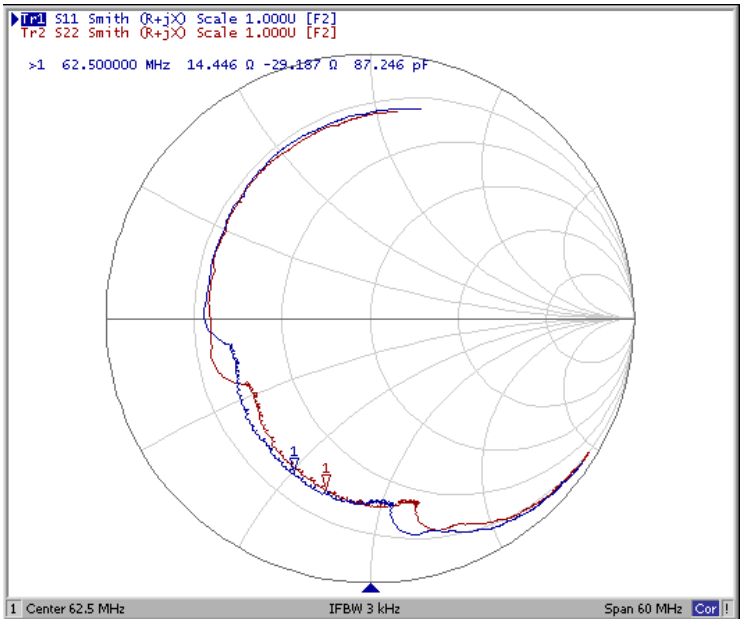
Ripple Variation Fo±9.22MHz



Group Delay Variation Fo±9.22MHz



Smith Chart



SWR