



Total Solution Provider in Saw Device

SA06214AD

62.5MHz IF SAW Filter

14.60MHz Bandwidth

Revision 1: 13. March. 2009



- 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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D			
Length x Width	mm ²	-	20.0 x 12.6	-
Height	mm	-	-	5.05

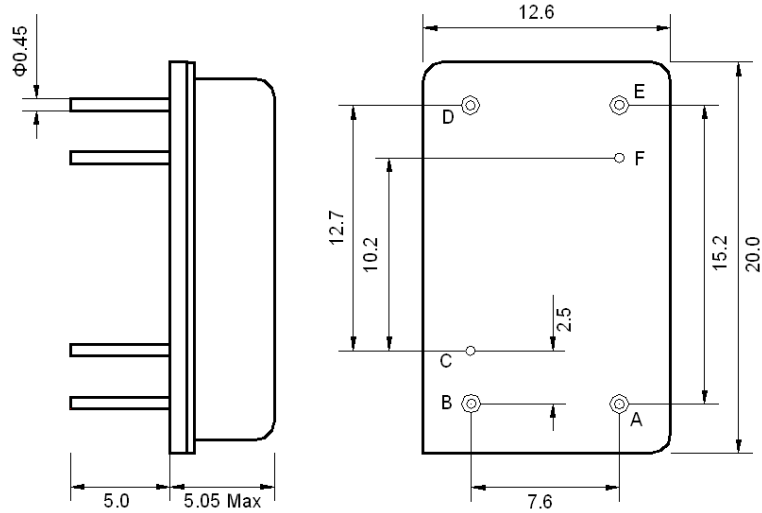
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	62.4	62.5	62.6
Insertion Loss at Fo	dB	-	21.70	23.00
Amplitude Ripple Variation at Fo ±6.86 MHz	dB _{p-p}	-	0.6	1.0
Group Delay Variation at Fo ±6.86 MHz	nsec	-	36	100
Absolute Delay at Fo	μsec	-	2.0	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	14.50	14.60	-
Bandwidth at -3.0 dB	MHz	-	14.96	-
Bandwidth at -30.0 dB	MHz	-	16.21	-
Bandwidth at -40.0 dB	MHz	-	16.38	16.50
Relative Attenuation				
Lower Sidelobe	dB	50	52	-
Upper Sidelobe	dB	50	52	-

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

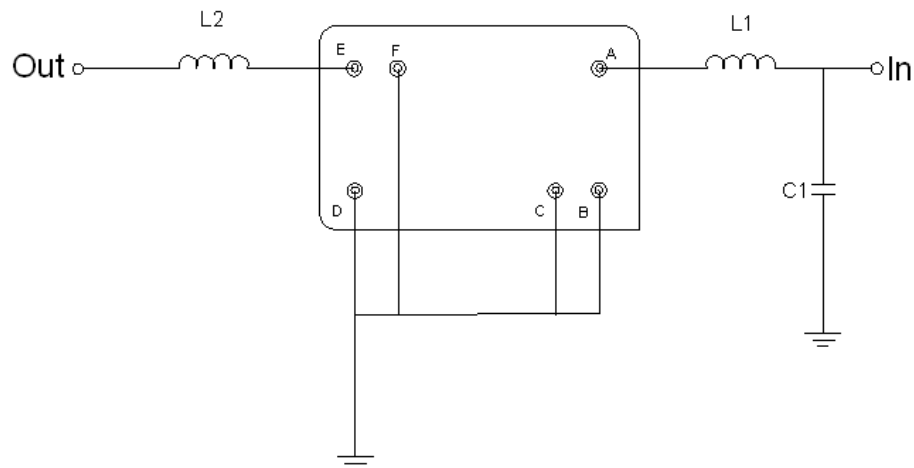
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



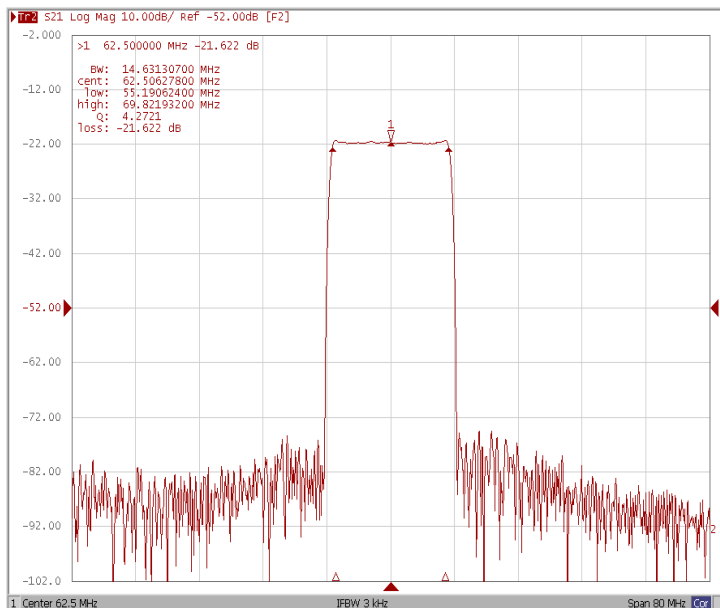
Test Fixture & Values	
Input	L1= 270 nH, C1=12 pF
Output	L2= 68 nH
Source/Load Impedance	50 Ω



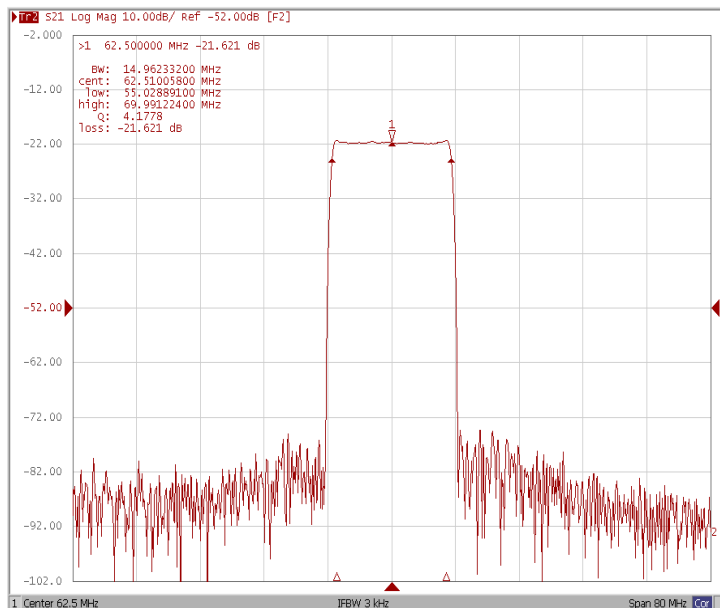
Frequency Characteristics

Frequency Response

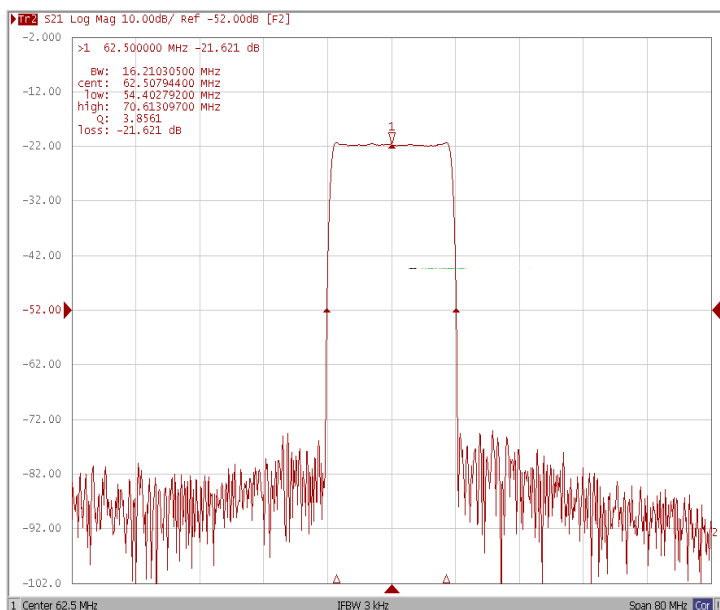
Bandwidth at -1.0 dB



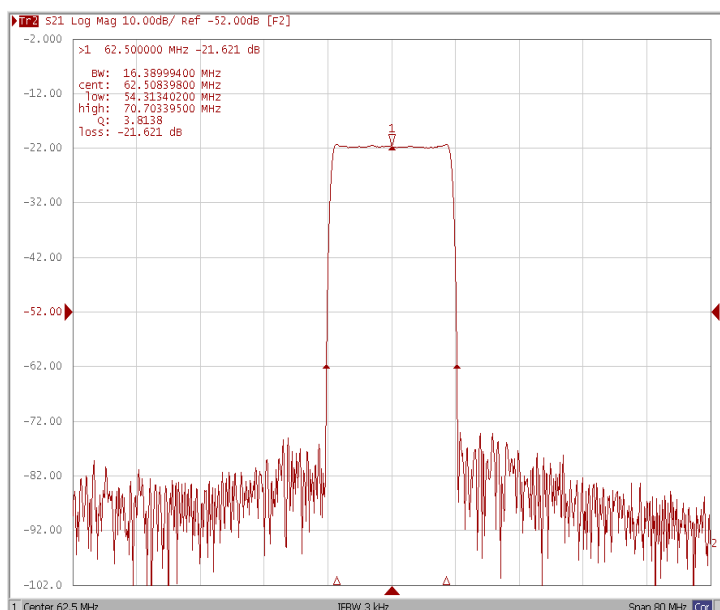
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB



Bandwidth at -40.0 dB

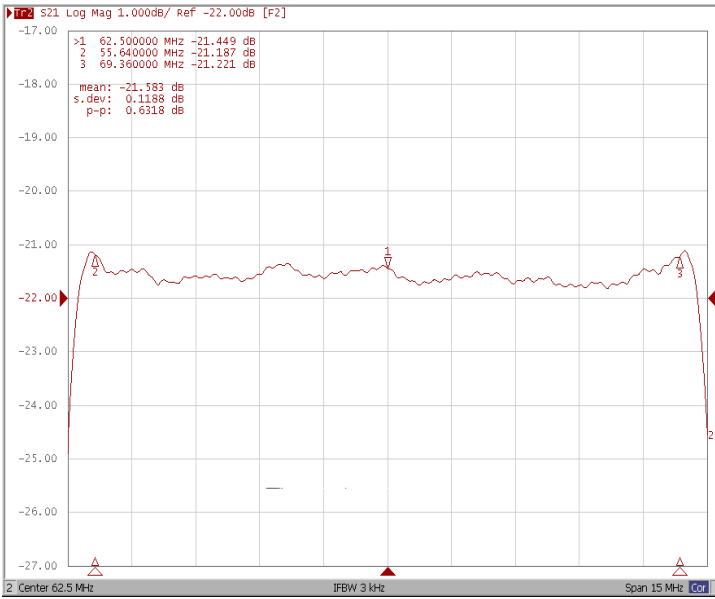




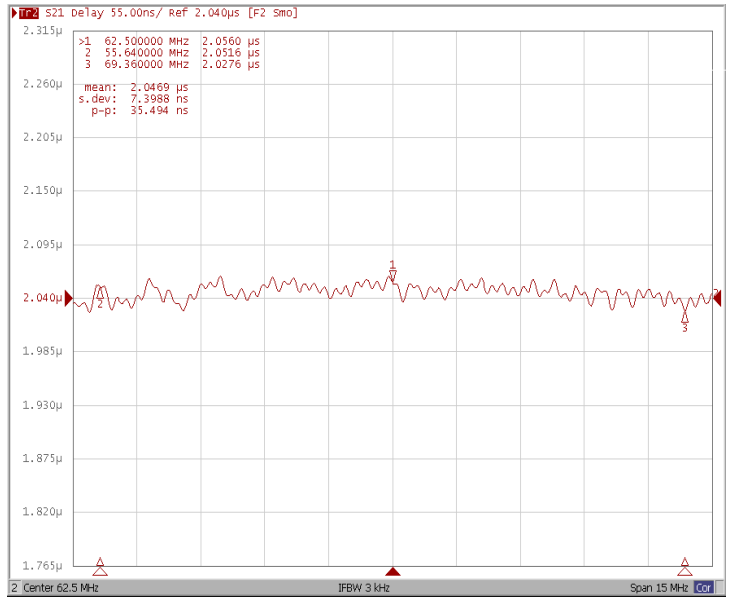
Frequency Characteristics

Frequency Response

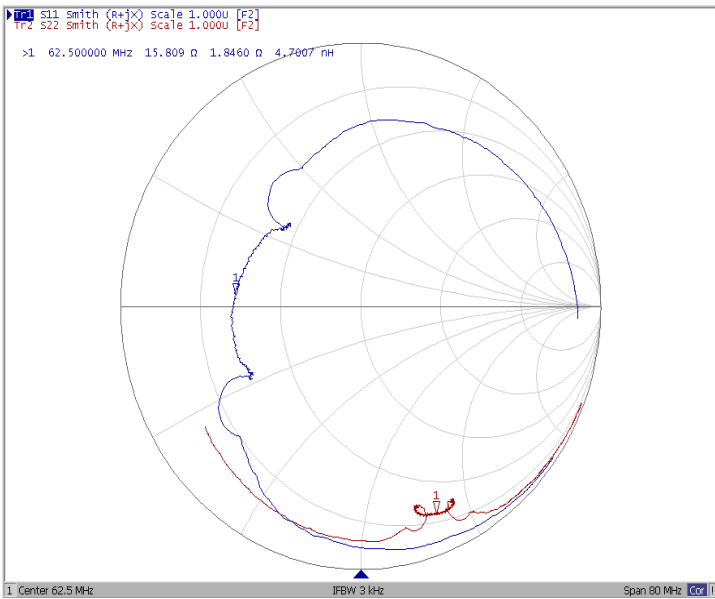
Ripple Variation Fo±6.86 MHz



Group Delay Variation Fo±6.86 MHz



Smith Chart



VSWR

