ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

119 MHz IF Saw Filter 9 MHz Bandwidth

Part Number: AM119S593

ISO 9001 REGISTERED FIRM

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	119.5675	119.6875	119.8075
Insertion Loss at Fo	dB	-	24.00	27.0
Passband Ripple Variation at Fo ± 4.6875 MHz	dB	-	0.50	1.00
Group Delay Variation at Fo ± 4.6875 MHz	nsec	-	35	100
Absolute Delay at Fo	usec	-	3.24	-
Bandwidth at -1.0 dB	MHz	9.375	9.83	-
Bandwidth at -30.0 dB	MHz	-	11.25	-
Bandwidth at -40.0 dB	MHz	-	11.40	12.10
Temperature Coefficient	ppm/°C	-	-20	-
Ultimate Attenuation	dB	-	50	-
Relative Attenuation at Fo ± 5.9125 MHz	dB	30	60	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	0	-	+60
Storage Temperature Range	°C	-20	-	+70
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 Size and Type	20.0 x 9.8 x 1.8 mm D1			

70 Outwater Lane **Phone: (973) 772-4242** **Email: sales@anatechelectronics.com**
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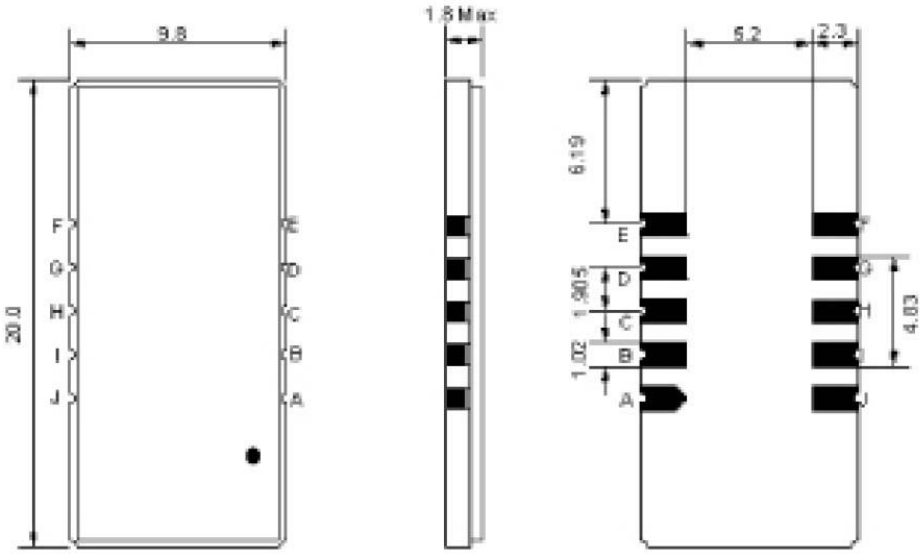
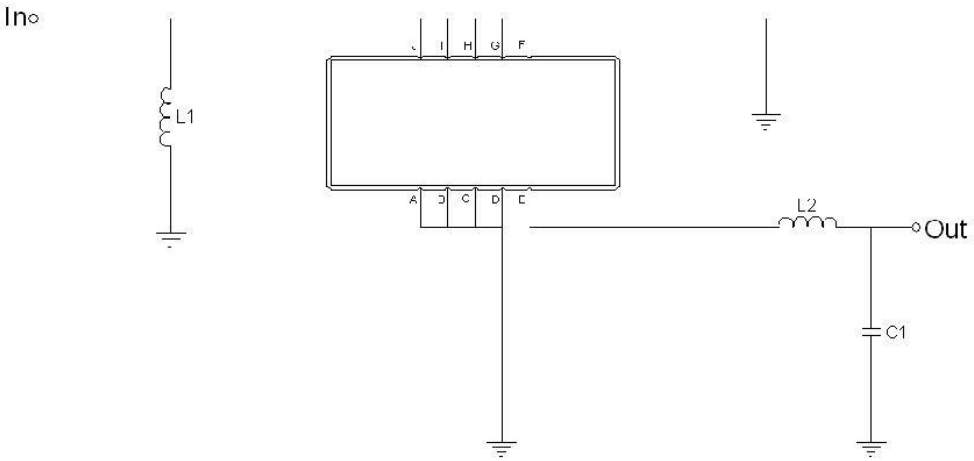
Outline Drawing:



Pin Description	
Ground	A B C D F G H I
Input	J
Output	E

Testing Environment:



Test Fixture & Values	
Input	L1=39nH
Output	L2=47nH ,C1=36pF
Source/Load Impedance	50 Ω

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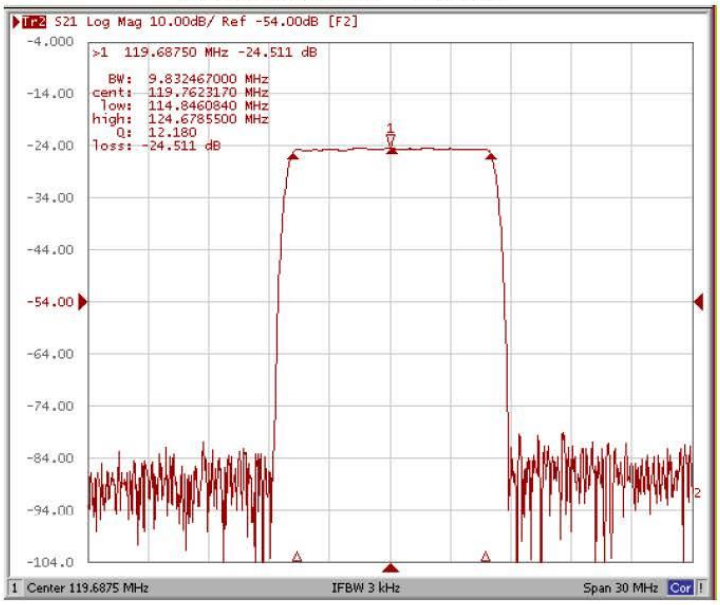
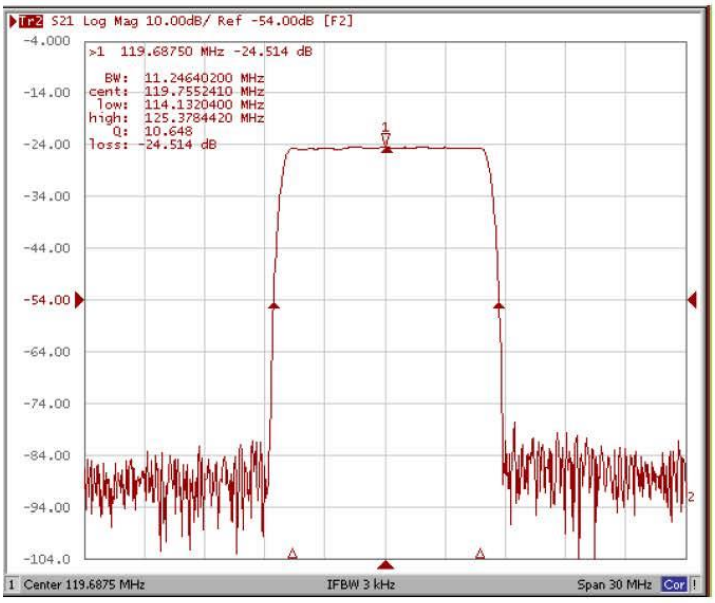
Frequency Response:

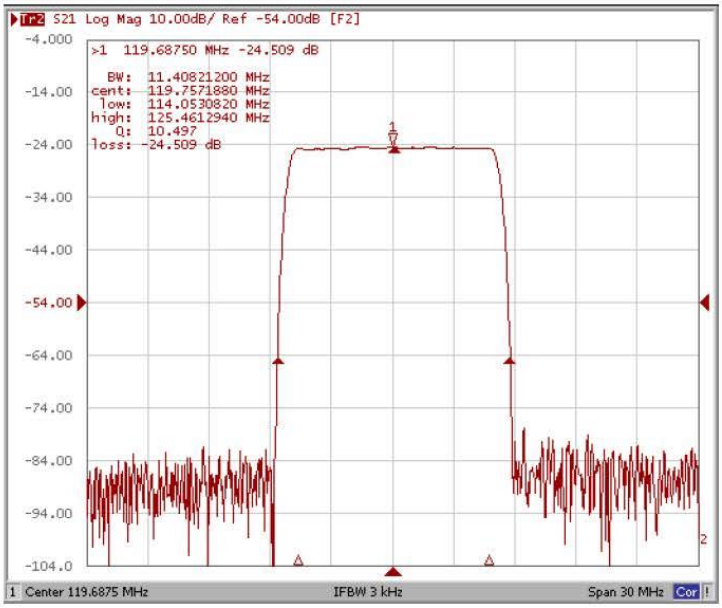
Bandwidth at –1.0 dB



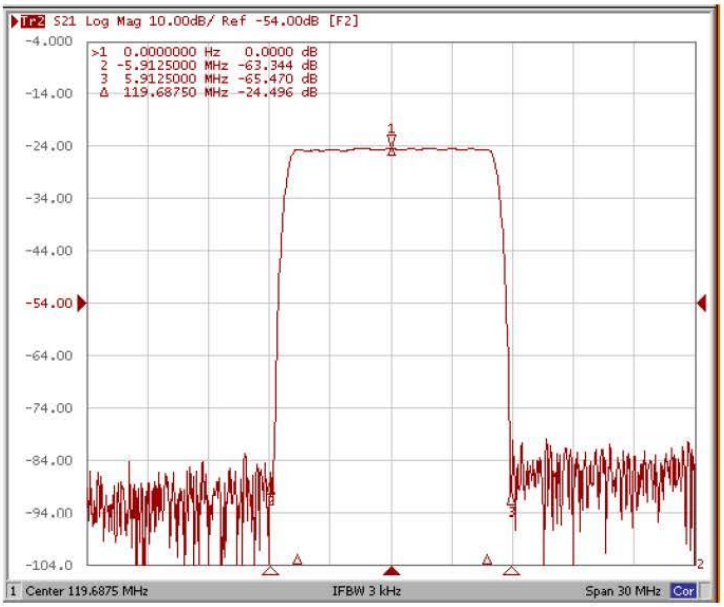
Bandwidth at –30.0 dB



Bandwidth at –40.0 dB



Relative Attenuation Fo±5.9125MHz



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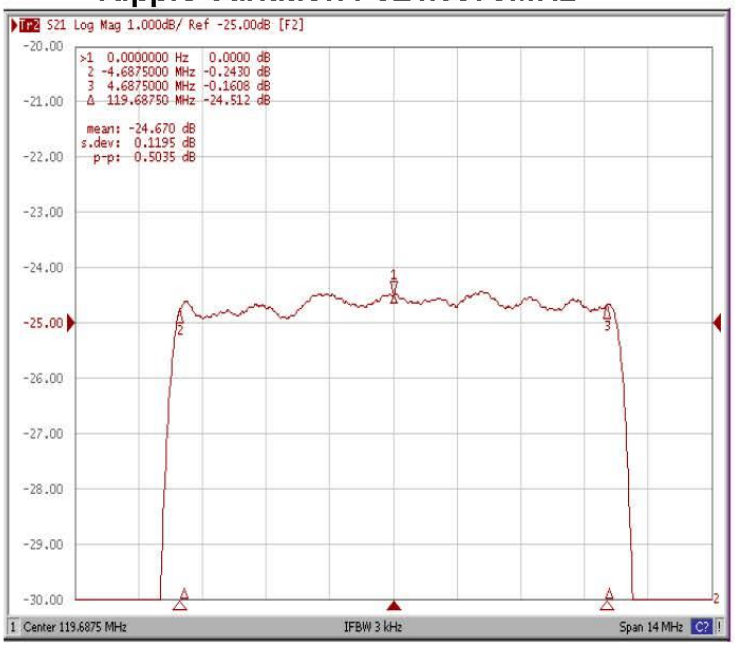
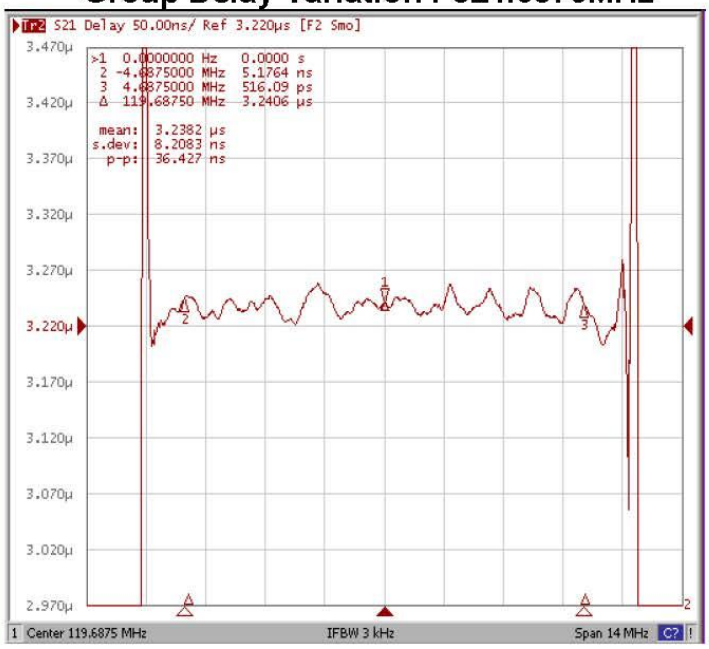
Frequency Response:

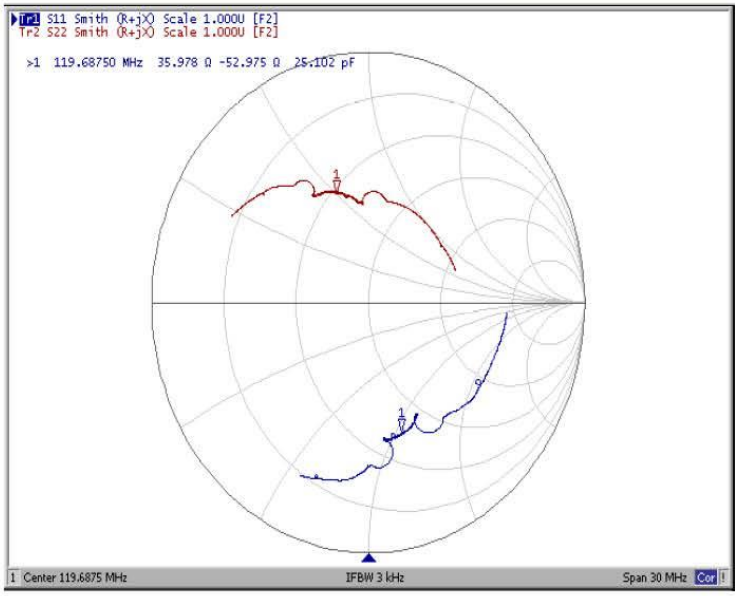
Ripple Variation Fo±4.6875MHz



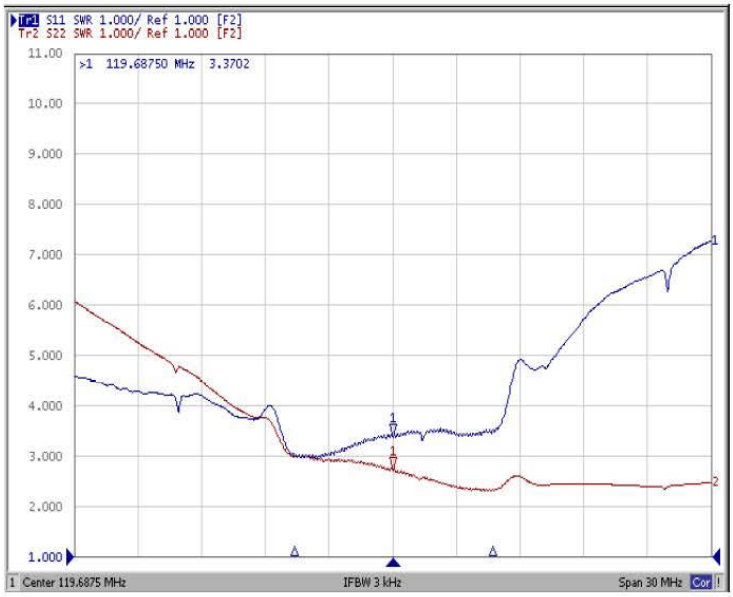
Group Delay Variation Fo±4.6875MHz



Smith Chart



VSWR



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