



115 MHz IF Saw Filter 9 MHz Bandwidth



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Part Number: AM115S588

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	115.0	-
Insertion Loss at Fo	dB	-	24.30	26.00
Group Delay Variation at Fo ± 4.59 MHz	nsec	-	37	80
Phase Linearity at Fo ± 4.59 MHz	Deg	-	9	13
Absolute Delay at Fo	usec	-	3.98	4.20
Temperature Coefficient	ppm/°C	-	-18	-
Amplitude Ripple at Fo ± 4.59 MHz	dBp-p	-	0.80	1.00
Bandwidth at -1.0 dB	MHz	9.18	9.30	-
Bandwidth at -45.0 dB	MHz	-	10.57	10.75
Input/Output Return Loss		6.5	-	-
Triple Transit Attenuation	dBc	35	-	-
Relative Attenuation:				
10.0 ~ 105.0 MHz	dBc	40	62	-
109.84 MHz	dBc	20	27	-
109.94 MHz	dBc	8	17	-
120.06 MHz	dBc	8	13	-
120.16 MHz	dBc	20	21	-
125.0 ~ 300.0 MHz	dBc	40	45	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-	+45	-
Storage Temperature Range	°C	-20	-	+70
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	28
Source Impedance (Single Ended) ₁	Ω	-	50	-
Load Impedance (Single Ended) ₁	Ω	-	50	-
Package Size and Type	34.7 x 12.6 x 5.05 mm			F



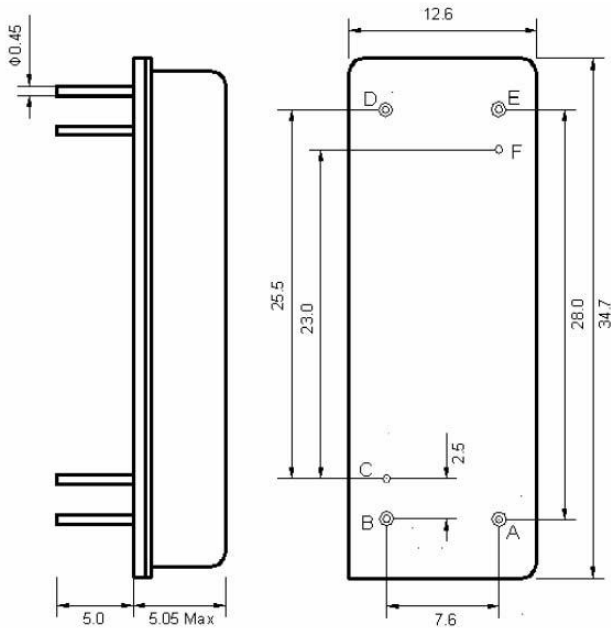
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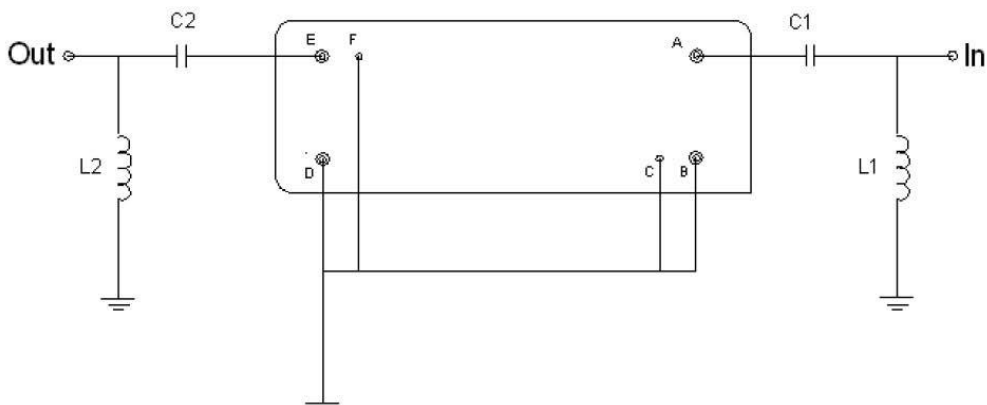
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Outline Drawing:



Pin Description	
Ground	B C D F
Input	A
Output	E

Testing Environment:



Test Fixture & Values	
Input	L1=33 nH Q >40, C1=330 pF
Output	L2=39 nH Q >40, C2=240 pF
Source/Load Impedance	50 Ω



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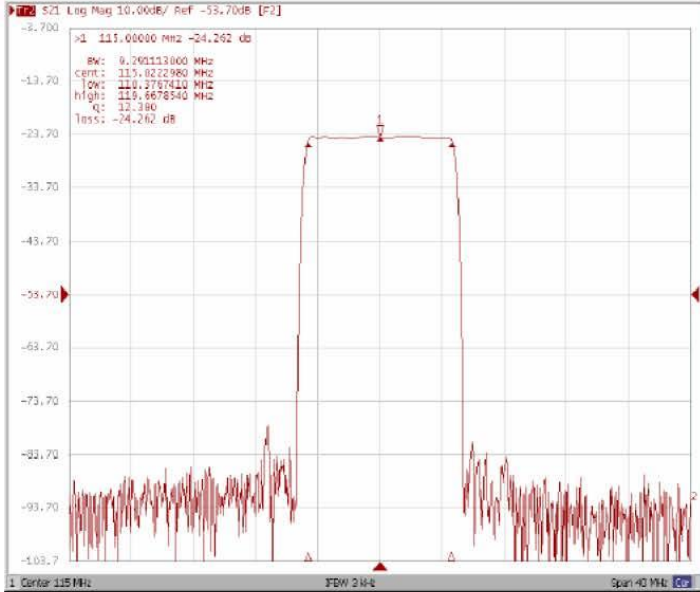
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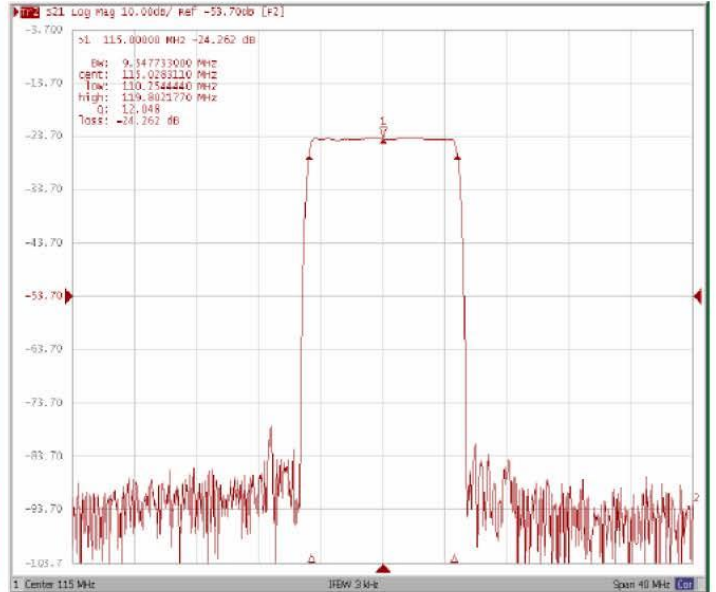
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Frequency Response:

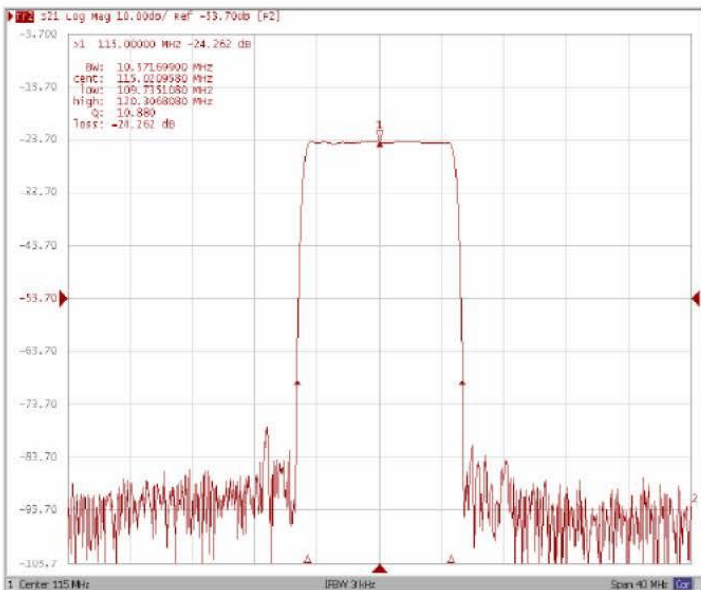
Bandwidth at -1.0 dB



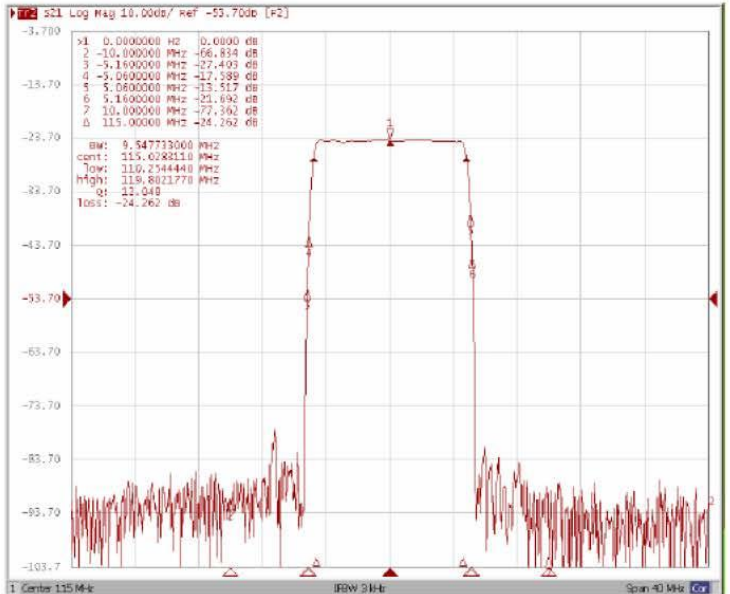
Bandwidth at -3.0 dB



Bandwidth at -45.0 dB



Relative Attenuation





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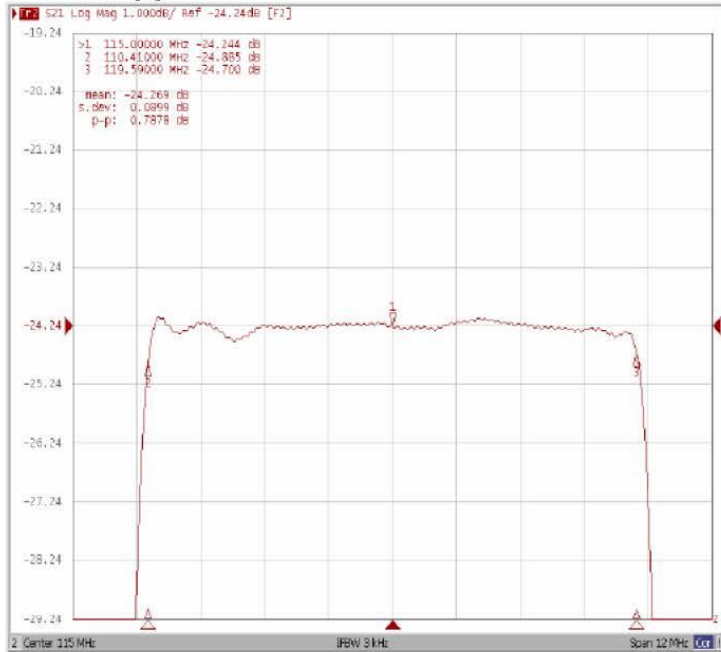
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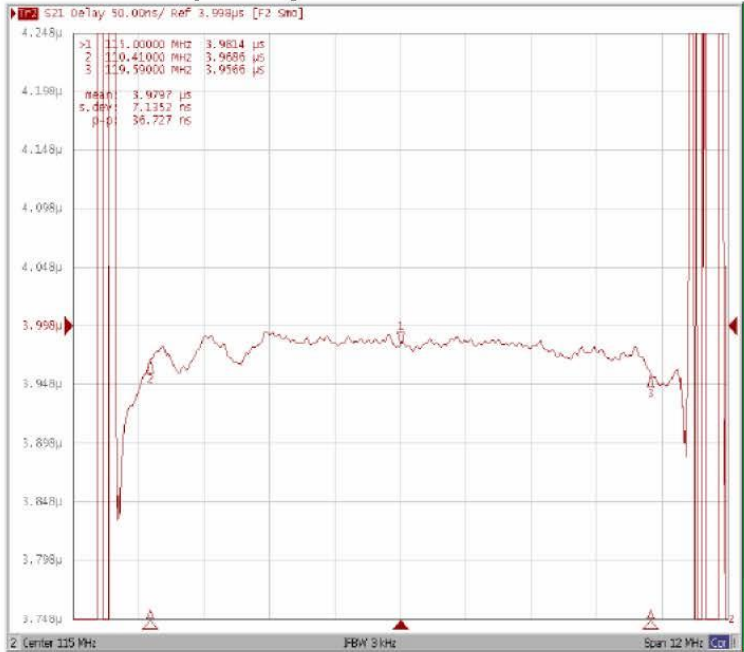
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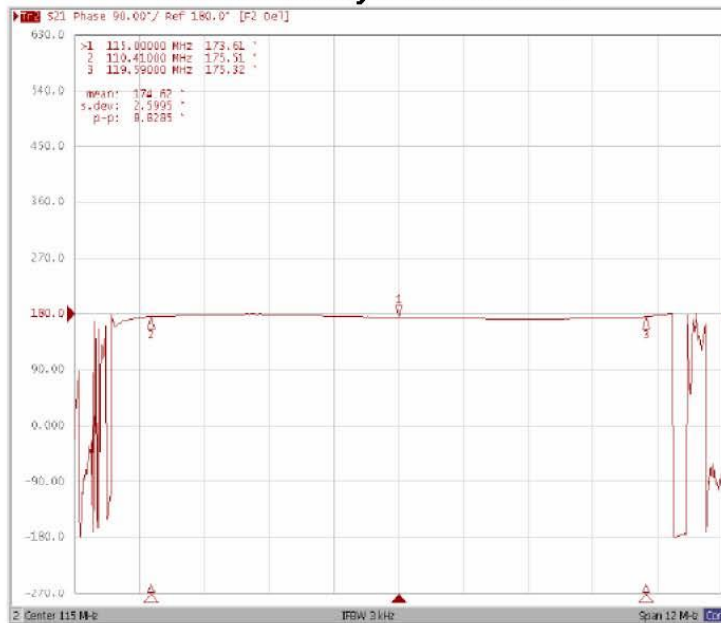
Ripple Variation Fo±4.59MHz



Group Delay Variation Fo±4.59MHz



Phase Linearity Fo±4.59MHz



Smith Chart

