



70 MHz IF Saw Filter 9 MHz Bandwidth

Part Number: AM70S635



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70.0	-
Insertion Loss at Fo	dB	-	19.4	22.0
Amplitude Ripple within Fo ± 4.4 MHz	dB _{p-p}	-	0.6	1.0
Group Delay Variation within Fo ± 4.4 MHz	nsec	-	50	80
Absolute Delay at Fo	µsec	-	2.48	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	9.2	9.3	-
Bandwidth at -3.0 dB	MHz	-	9.58	-
Bandwidth at -10.0 dB	MHz	-	10.05	10.1
Bandwidth at -25.0 dB	MHz	-	10.53	11.7
Bandwidth at -40.0 dB	MHz	-	10.79	-
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-10	-	+50
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 Size and Type	20.0 x 9.8 x 1.8 mm		D1	



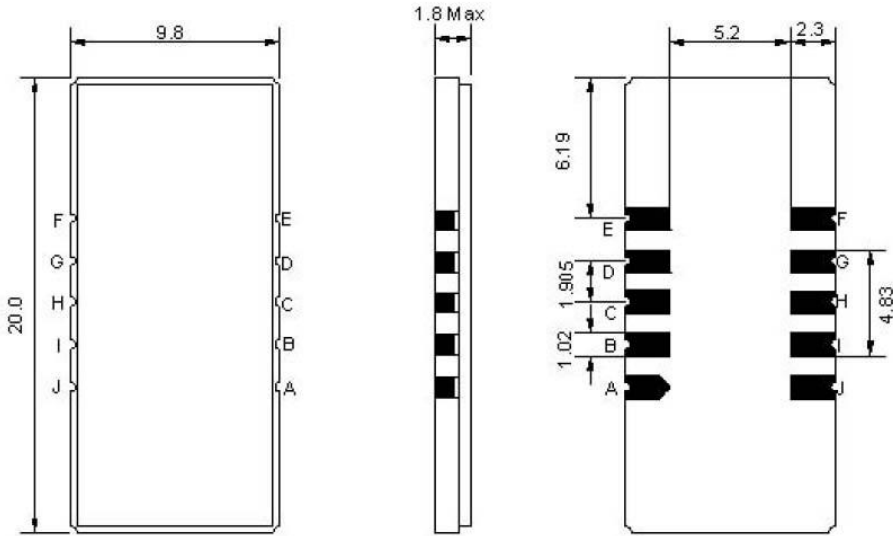
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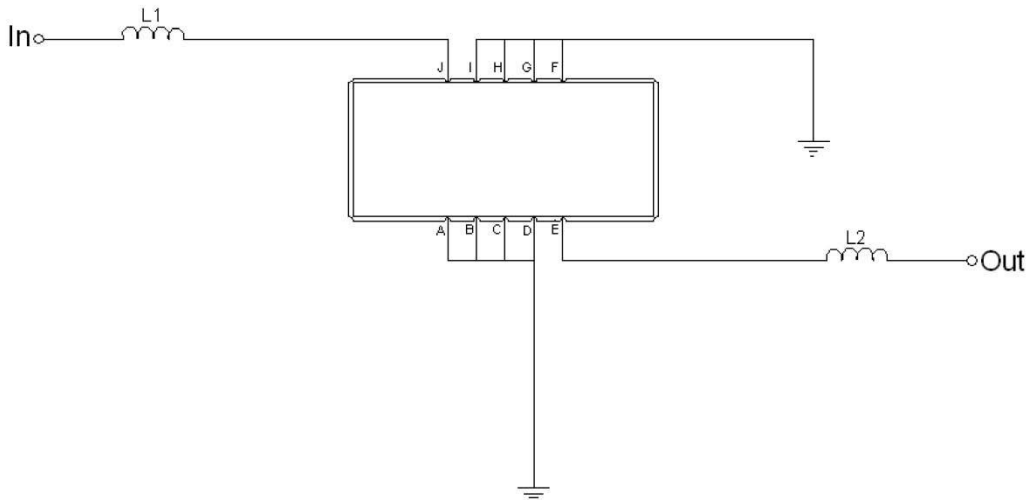
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Outline Drawing:



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

Testing Environment:



Test Fixture & Values	
Input	L1=15nH
Output	L2=15nH
Source/Load Impedance	50 Ω



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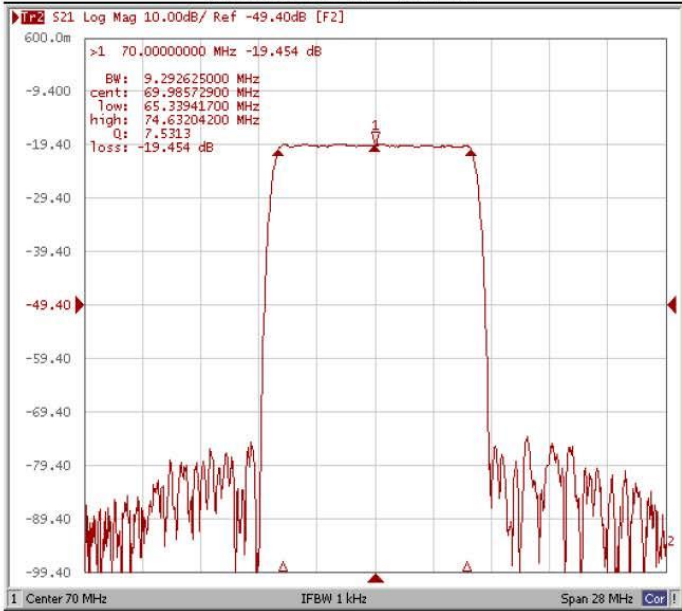
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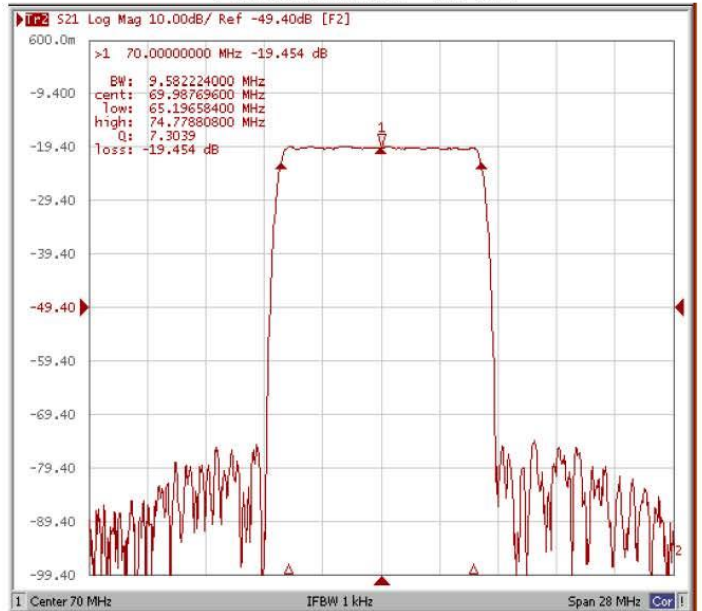
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Frequency Response:

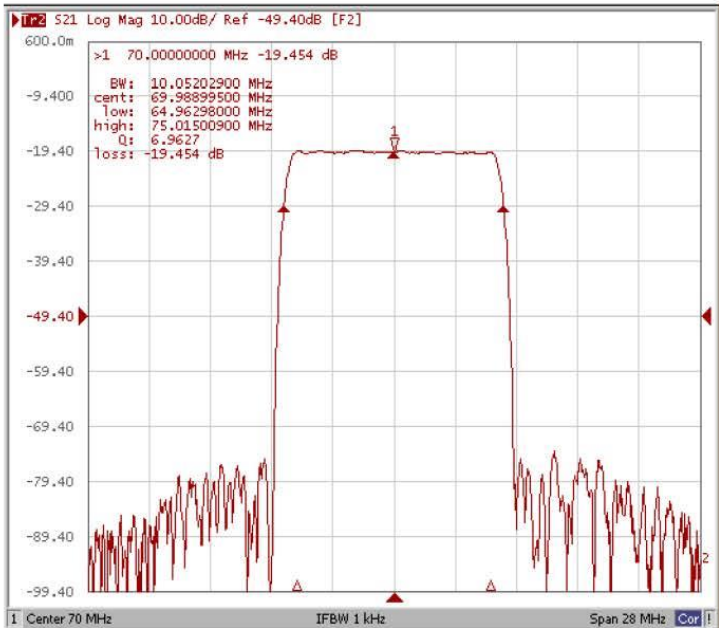
Bandwidth at -1.0 dB



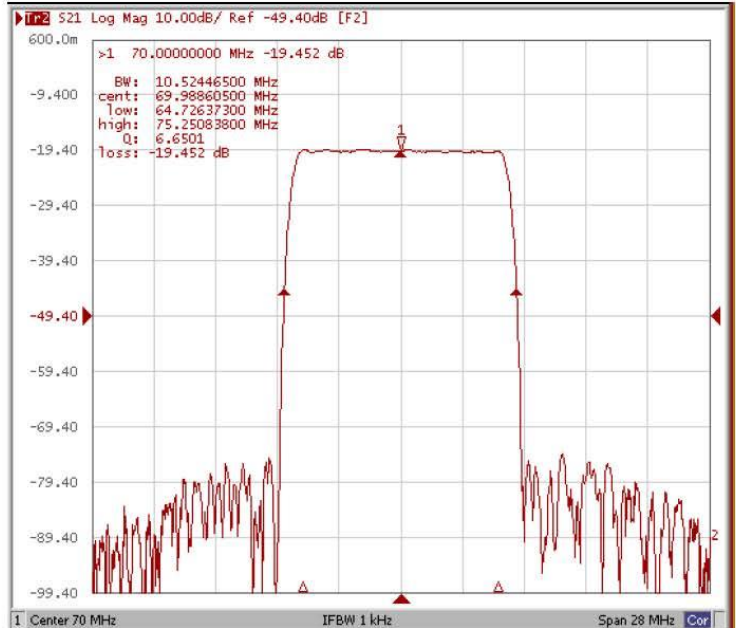
Bandwidth at -3.0 dB



Bandwidth at -10.0 dB



Bandwidth at -25.0 dB





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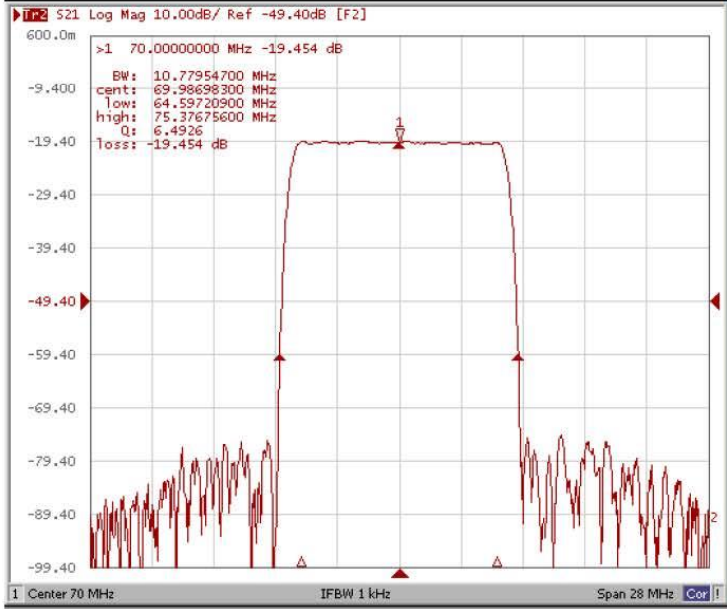
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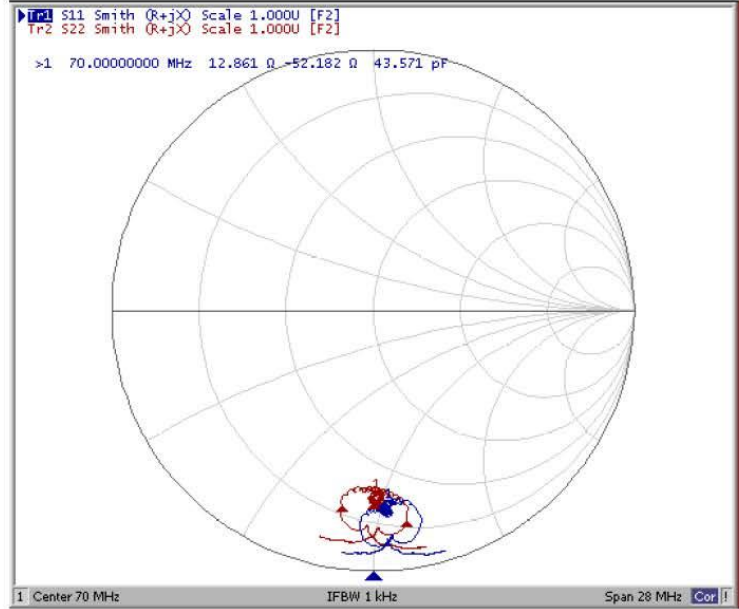
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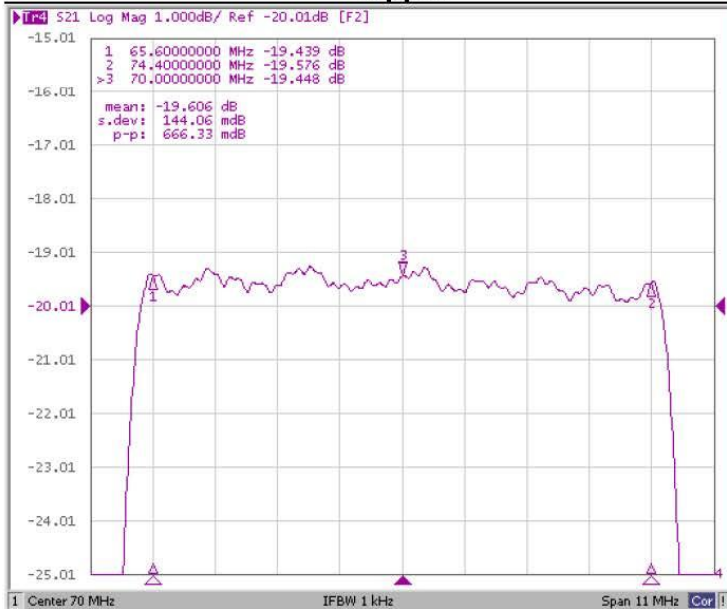
Bandwidth at -40.0 dB



Smith Chart



Ripple



Group Delay Variation

