



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

70 MHz IF Saw Filter
5.40 MHz Bandwidth

Part Number: AM70S552

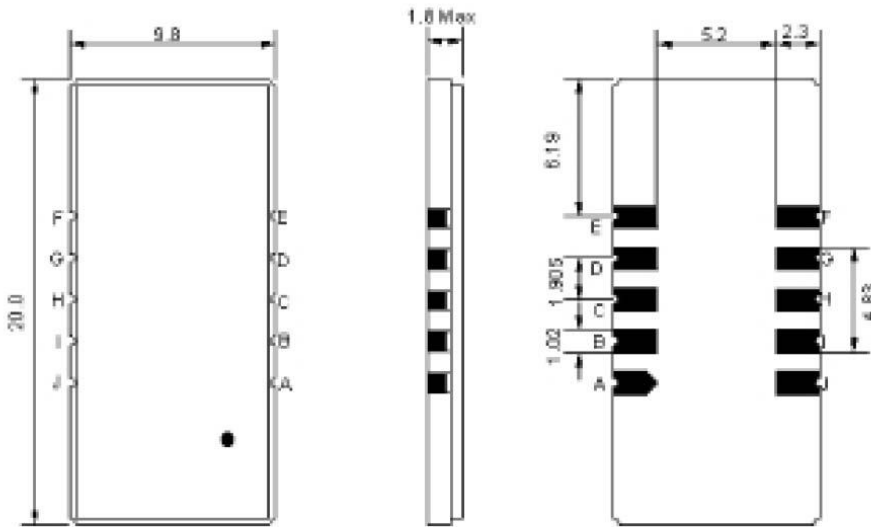


Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70.0	-
Insertion Loss at Fo	dB	-	27.7	29.0
Passband Ripple Variation at Fo ± 3.5 MHz	dB	-	0.55	1.0
Group Delay Variation at Fo ± 3.5 MHz	nsec	-	50	100
Absolute Delay at Fo	µsec	-	3.36	-
Temperature Coefficient	ppm/°C	-	-20	-
Bandwidth at -1.0 dB	MHz	-	7.28	-
Bandwidth at -10.0 dB	MHz	-	8.09	-
Bandwidth at -20.0 dB	MHz	-	8.46	-
Bandwidth at -25.0 dB	MHz	-	8.59	-
Bandwidth at -35.0 dB	MHz	-	8.78	-
Ultimate Rejection	dB	45	50	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation 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 Size and Type	20.0 x 9.8 x 1.8 mm		D1	

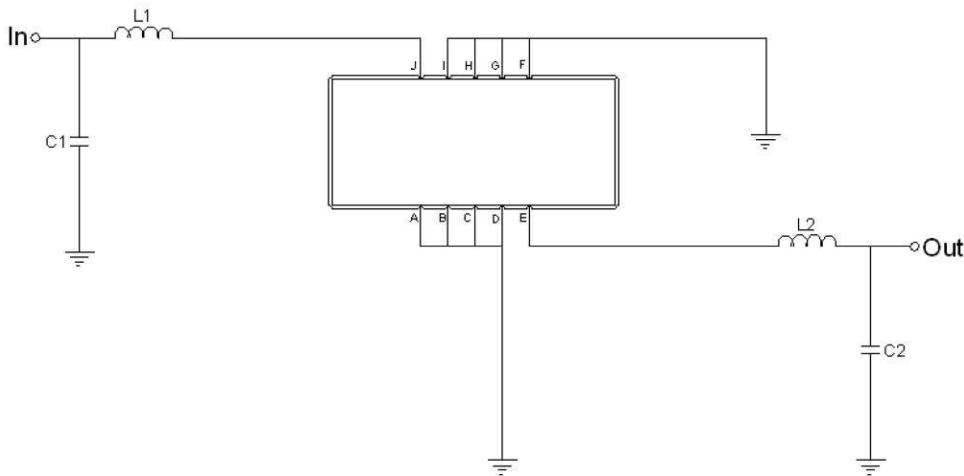


Outline Drawing:



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

Testing Environment:

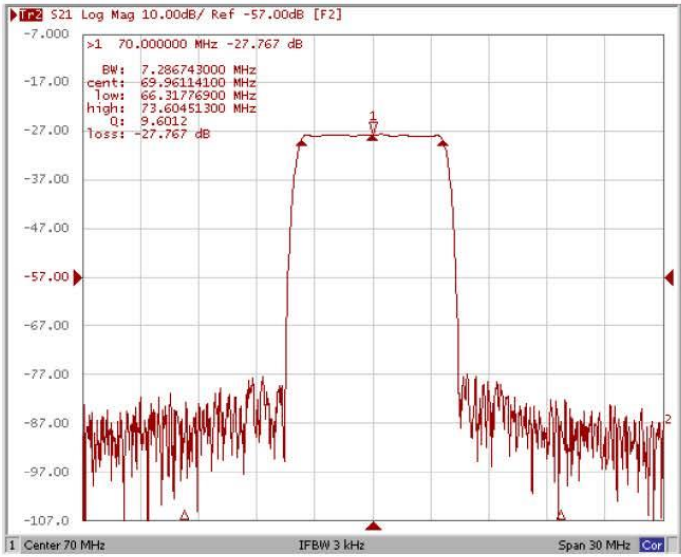


Test Fixture & Values	
Input	L1 = 180 nH , C1 = 43 pF
Output	L2 = 220 nH , C2 = 36 pF
Source/Load Impedance	50 Ω

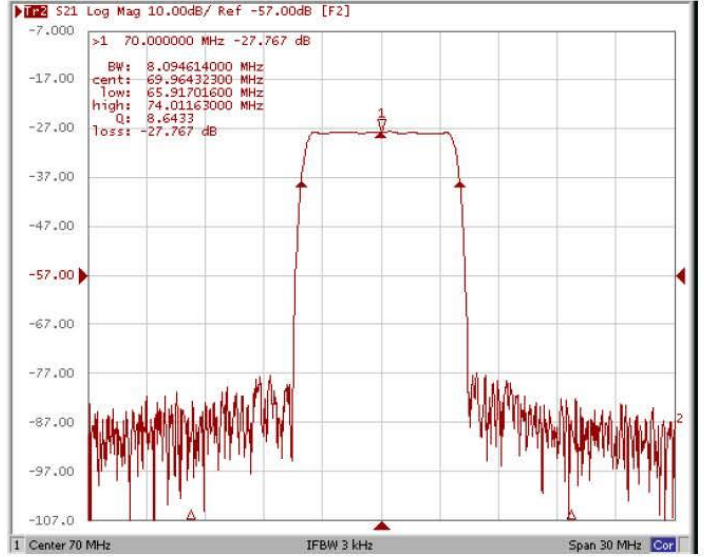


Frequency Response:

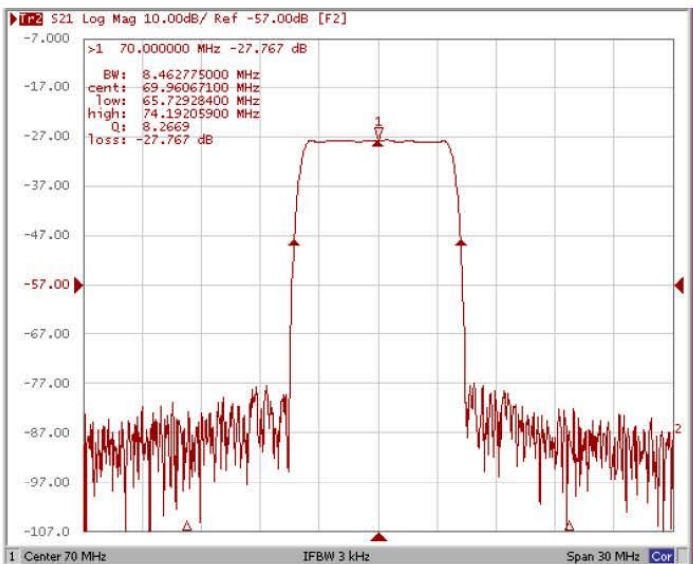
Bandwidth at -1.0 dB



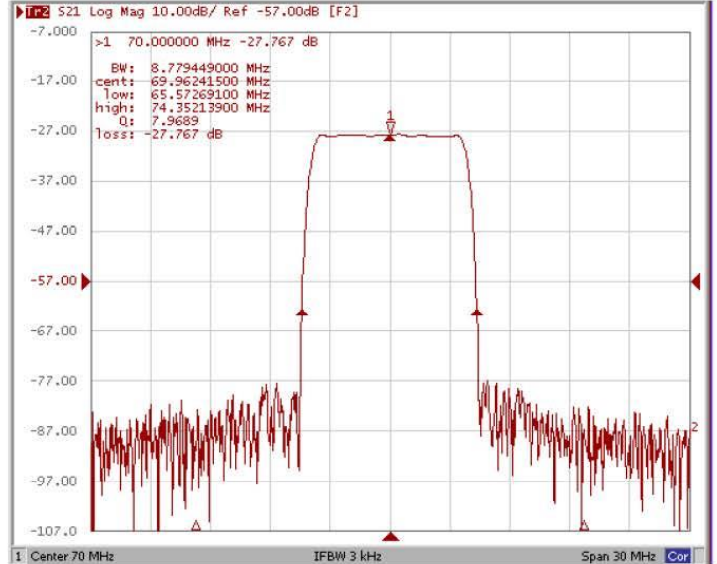
Bandwidth at -10.0 dB



Bandwidth at -20.0 dB



Bandwidth at -35.0 dB





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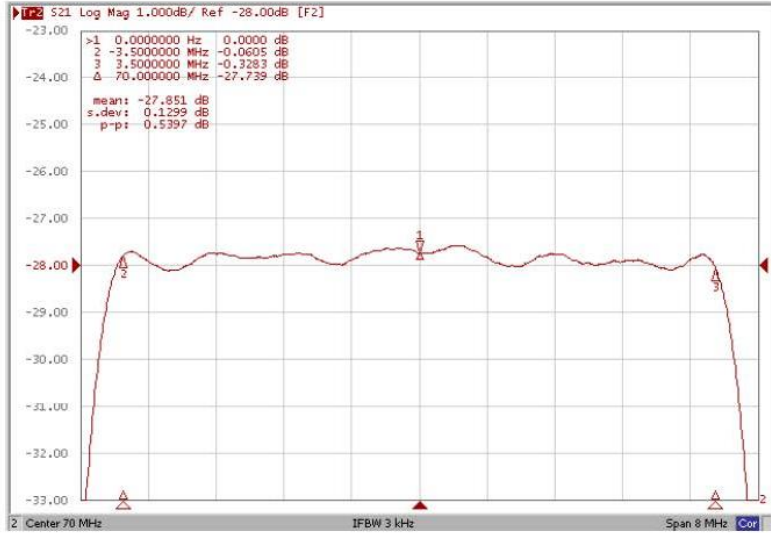
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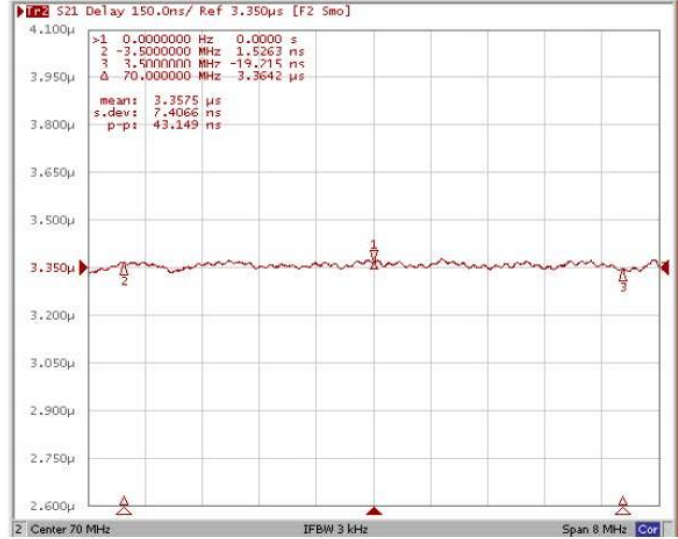


Frequency Response:

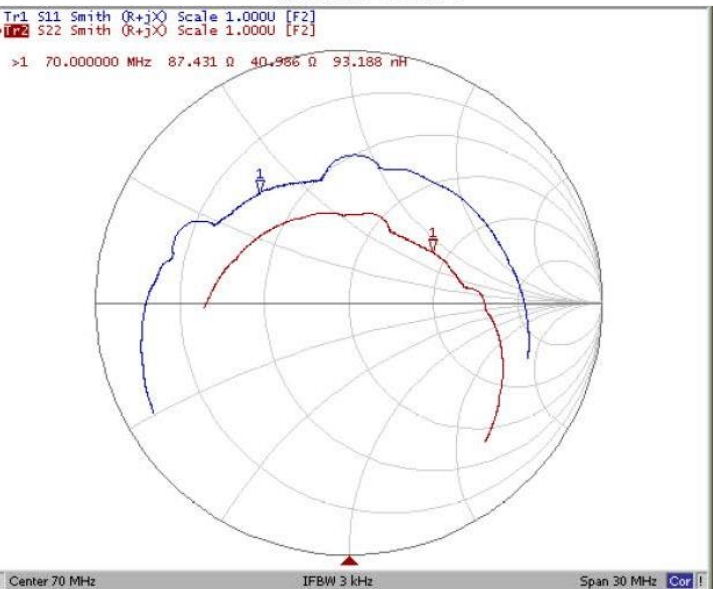
Ripple Variation Fo±3.5MHz



Group Delay Variation Fo±3.5MHz



Smith Chart



SWR

