



70 MHz IF Saw Filter 14 MHz Bandwidth



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Part Number: AM70S553

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	69.90	70.00	70.10
Insertion Loss at Fo	dB	-	21.0	24.0
Amplitude Ripple Variation at Fo ± 7.0 MHz	dB _{p-p}	-	0.55	1.0
Group Delay Variation at Fo ± 7.0 MHz	nsec	-	50	100
Absolute Delay at Fo	µsec	-	2.34	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	-	14.82	-
Bandwidth at -3.0 dB	MHz	14.90	15.15	-
Bandwidth at -40.0 dB	MHz	-	16.48	16.80
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-

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 Size and Type	20.0 x 9.8 x 1.8 mm		D1	



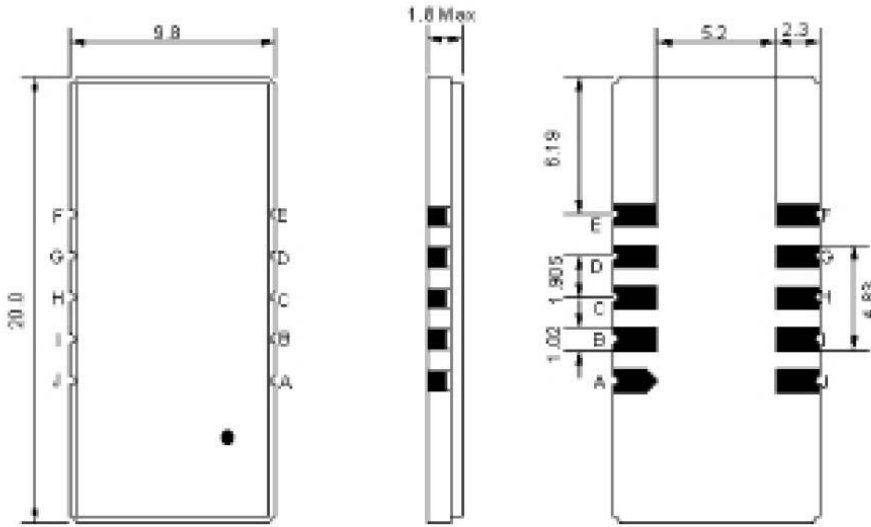
70 MHz IF Saw Filter 14 MHz Bandwidth

Part Number: AM70S553



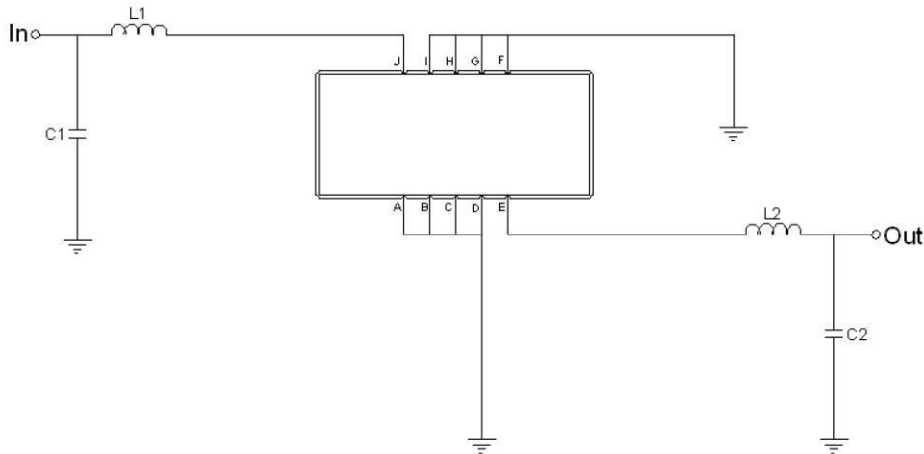
ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Outline Drawing:



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

Testing Environment:



Test Fixture & Values	
Input	L1=180nH
Output	L2=100nH
Source/Load Impedance	50 Ω



70 MHz IF Saw Filter 14 MHz Bandwidth

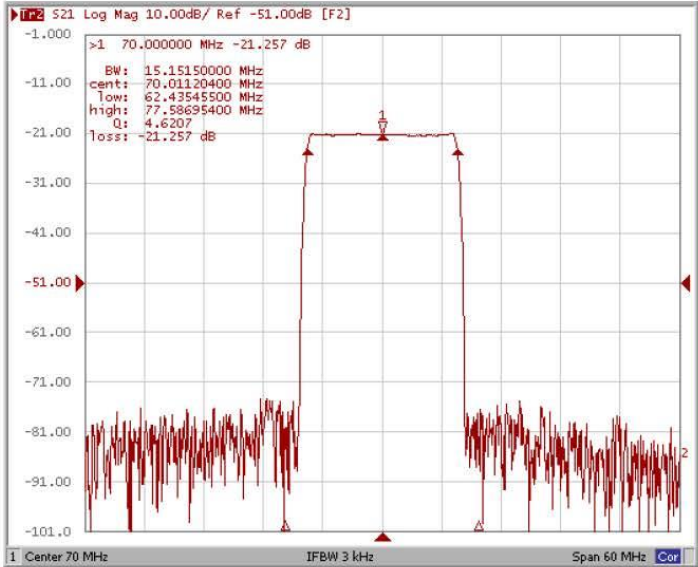
ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Part Number: AM70S553

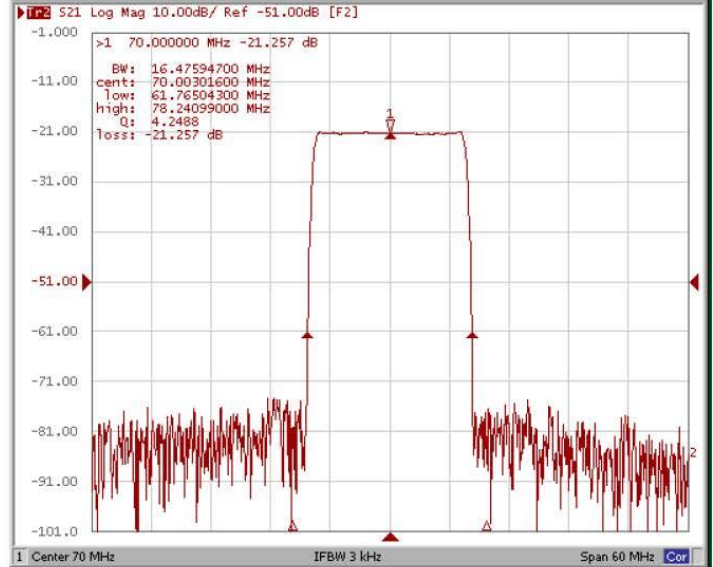


Frequency Response:

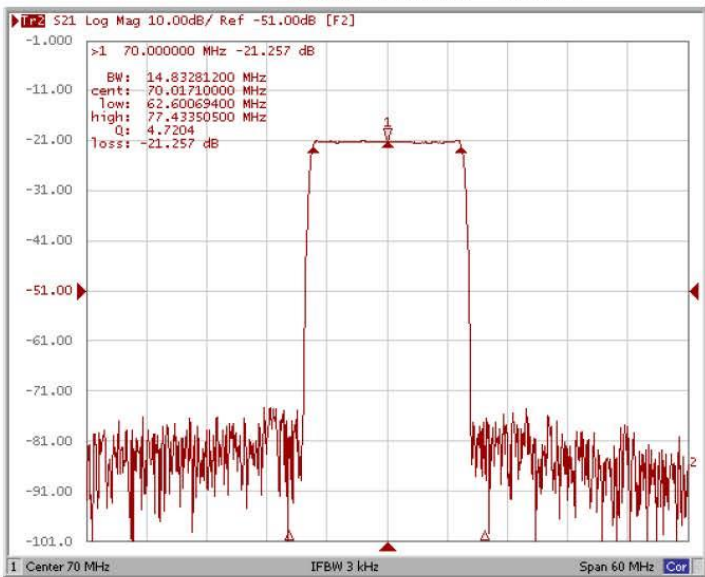
Bandwidth at -3.0 dB



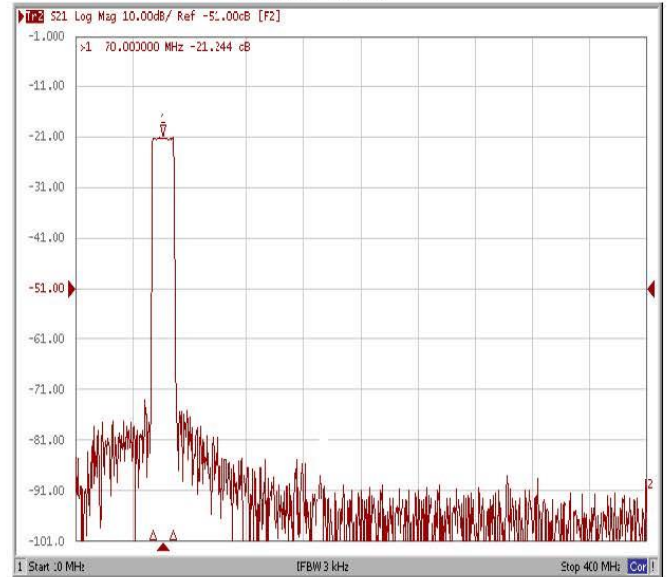
Bandwidth at -40.0 dB



Bandwidth at -1.0 dB



Wide Band





70 MHz IF Saw Filter 14 MHz Bandwidth

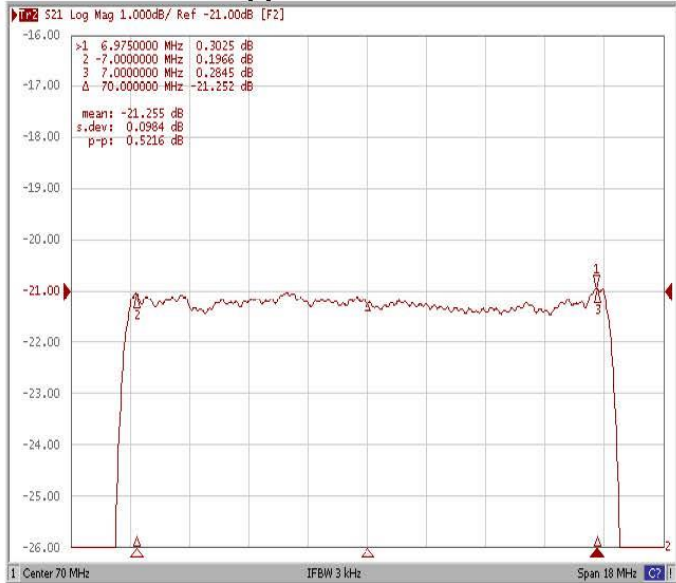
Part Number: AM70S553



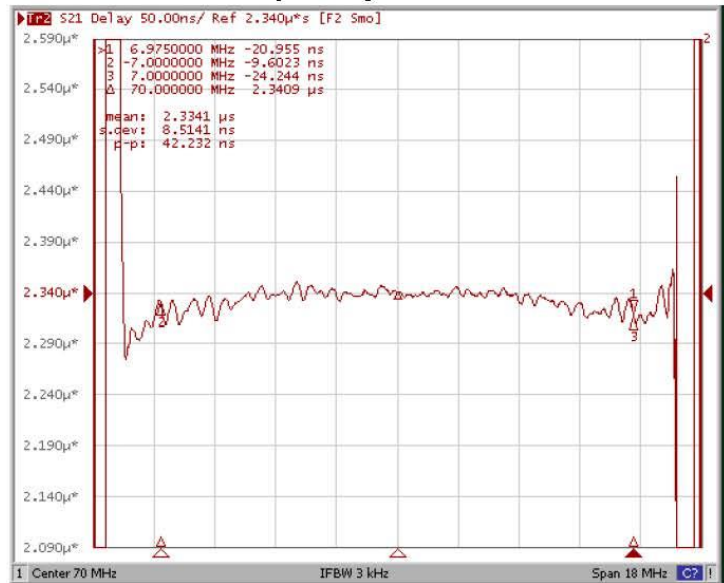
ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Frequency Response:

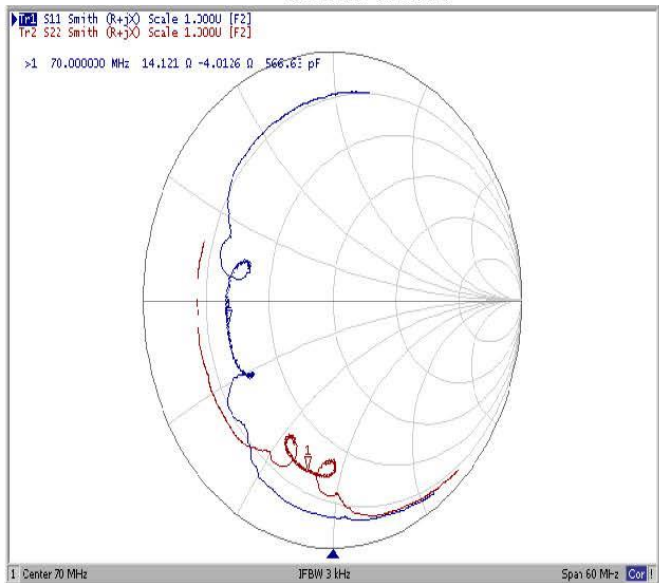
Ripple Variation



Group Delay Variation



Smith Chart



VSWR

