



160 MHz IF Saw Filter 9 MHz Bandwidth

Part Number: AM160S620

ANATECH ELECTRONICS INC
RF & Microwave Filters & Products



Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	160.0	-
Insertion Loss at Fo	dB	-	28.50	30.00
Group Delay Variation (Fo ± 4.59 MHz)	nsec	-	47	100
Phase Linearity (Fo ± 4.59 MHz)	Deg	-	11.0	13.0
Absolute Delay Time at Fo	µsec	-	3.80	4.00
Temperature Coefficient	ppm/°C	-	-18	-
Amplitude Ripple (Fo ± 4.59 MHz)	dB	-	0.80	1.00
Bandwidth at -1.0 dB	MHz	9.18	9.32	-
Bandwidth at -45.0 dB	MHz	-	10.63	10.80
Input/Output Return Loss	dB	-	10.50	-
Triple Transit Attenuation	dBc	35	-	-
Relative Attenuation:				
10.0 ~ 150.0 MHz	dB	40	60	-
154.84 MHz	dB	15	22	-
154.94 MHz	dB	7	14	-
165.06 MHz	dB	7	16	-
165.16 MHz	dB	15	25	-
170.0 ~ 300.0 MHz	dB	40	55	-

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	



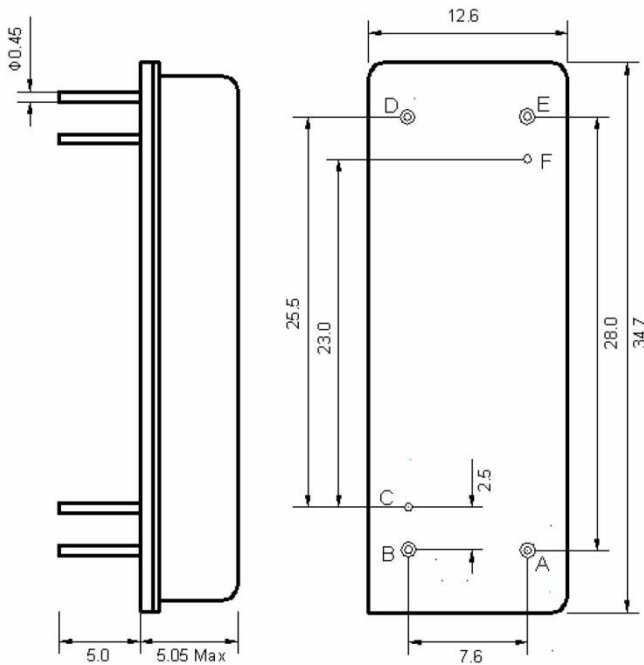
160 MHz IF Saw Filter 9 MHz Bandwidth

Part Number: AM160S620



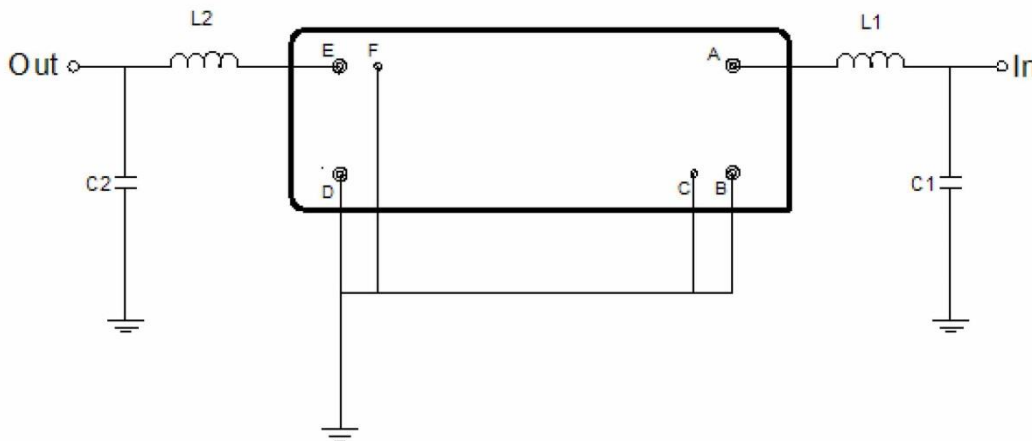
ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Outline Drawing:



Pin Description	
Ground	B C D F
Input	A
Output	E

Testing Environment:



Test Fixture & Values	
Input	L1=27 nH Q >40, C1=36 pF
Output	L2=27 nH Q >40, C2=36 pF
Source/Load Impedance	50 Ω



160 MHz IF Saw Filter 9 MHz Bandwidth

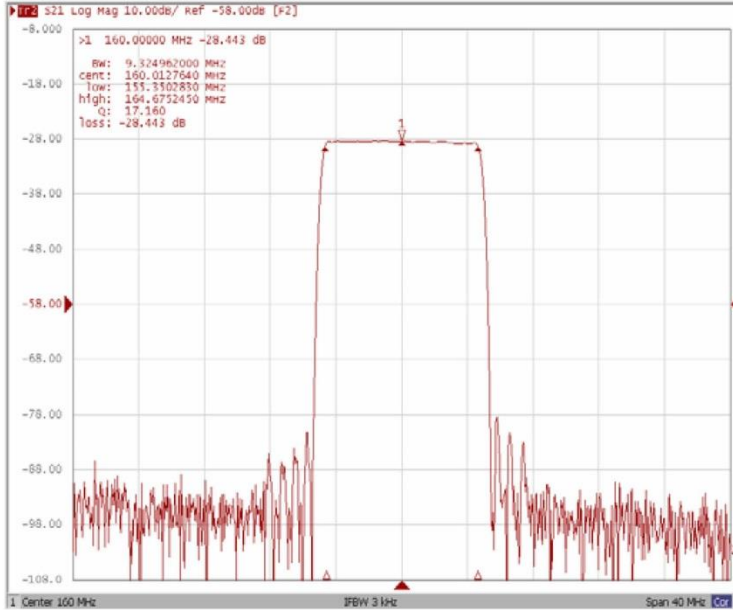
Part Number: AM160S620



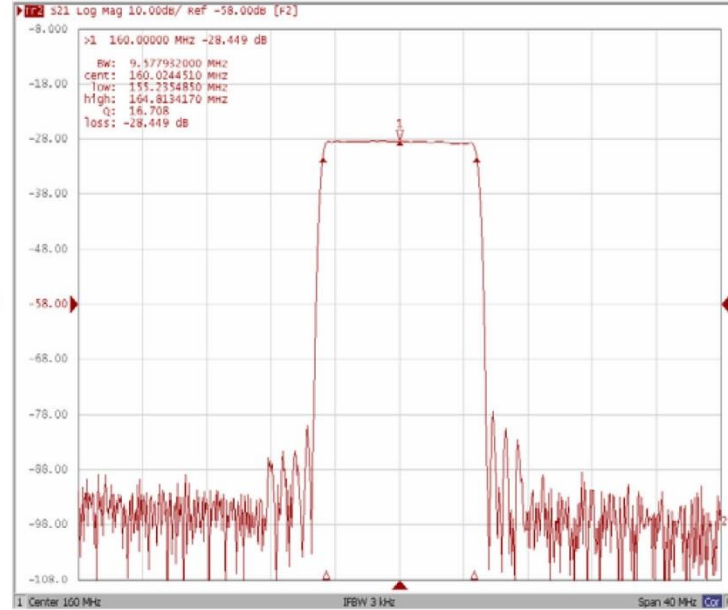
ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Frequency Response:

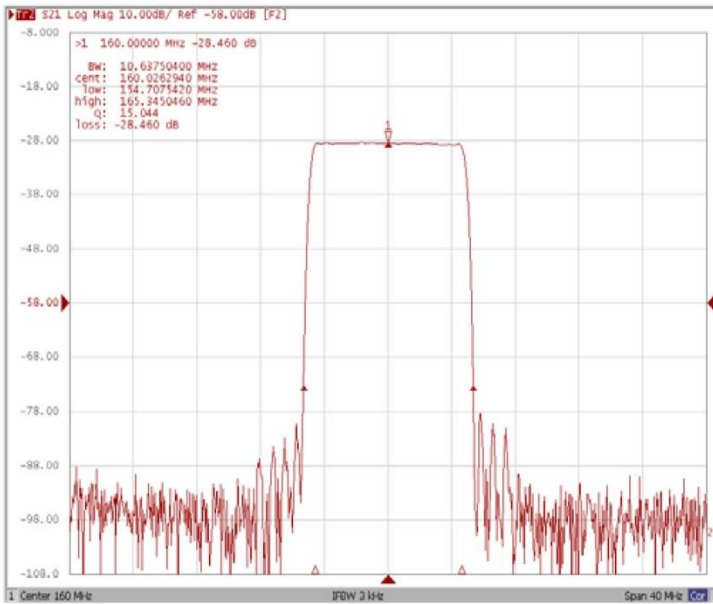
Bandwidth at -1.0 dB



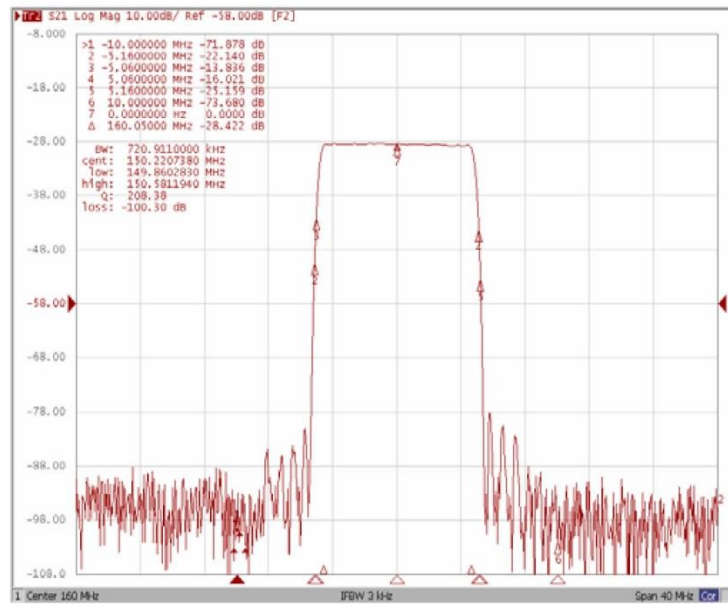
Bandwidth at -3.0 dB



Bandwidth at -45.0 dB



Relative Attenuation





160 MHz IF Saw Filter 9 MHz Bandwidth

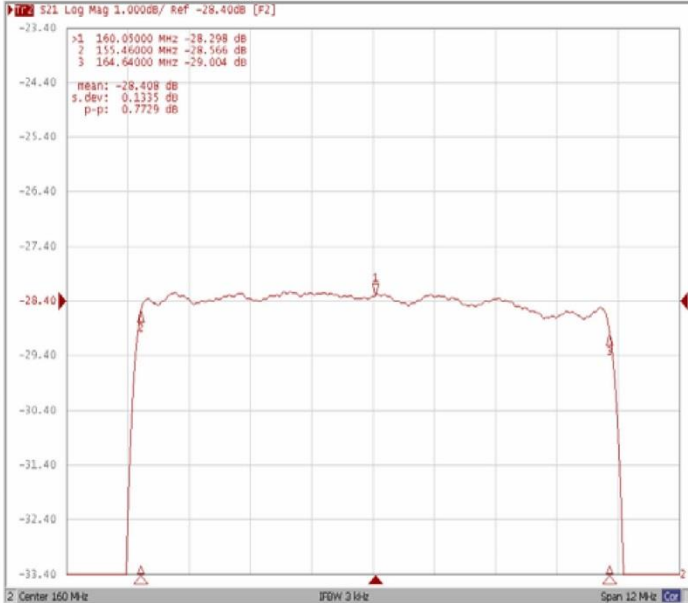
Part Number: AM160S620



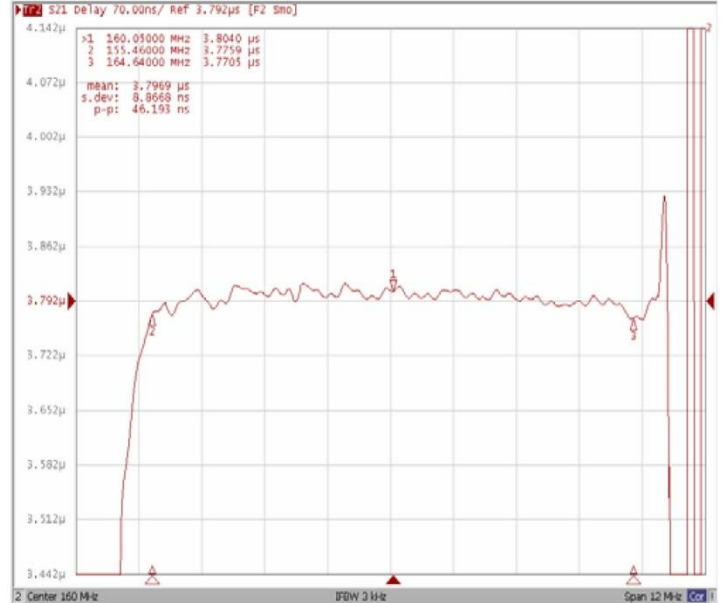
ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Frequency Response:

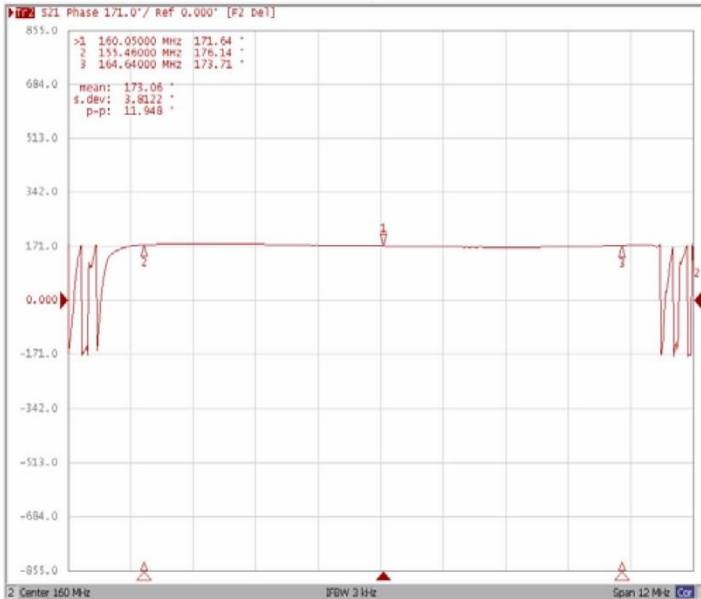
Ripple Variation Fo±4.59MHz



Group Delay Variation Fo±4.59MHz



PhaseLinearity Fo±4.59MHz



Smith Chart

