ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

110 MHz IF Saw Filter

Part Number: AM110S686

ISO 9001 REGISTERED FIRM

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	110.0	-
Insertion Loss at Fo	dB	-	10.0	11.5
Amplitude Ripple (Fo ± 0.3 MHz)	dB_{p-p}	-	0.55	1.0
Phase Linearity (Fo ± 0.615 MHz)	Deg RMS	-	3.5	4.5
Phase Linearity (Fo ± 0.620 MHz)	Deg RMS	-	3.5	4.5
Temperature Coefficient	ppm/°C	-	-0.03	-
Bandwidth at -5.0 dB	MHz	±0.630	±0.660	-
Bandwidth at -33.0 dB	MHz	-	±0.890	-
Template on the amplitude, reference is loss at Fc				
Attenuation at Fc ± 0.63 MHz	dB	-	4.5	5.0
Attenuation at Fc ± 0.90 MHz	dB	32	35	-
Attenuation at Fc ± 1.7 MHz	dB	33	36	-
Attenuation at Fc ± 2.0 MHz	dB	35	37	-
Attenuation at Fc ± 9.0 MHz	dB	45	48	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-20	-	+85
Storage Temperature Range	°C	-40	-	+105
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	20
Source Impedance (Balanced)$_1$	Ω	-	1000	-
Load Impedance (Balanced)$_1$	Ω	-	500	-
Package Size and Type	7.0 x 5.0 x 1.8 mm S			

70 Outwater Lane **Phone: (973) 772-4242**
Garfield, NJ 07026 **Fax : (973) 772-4646**
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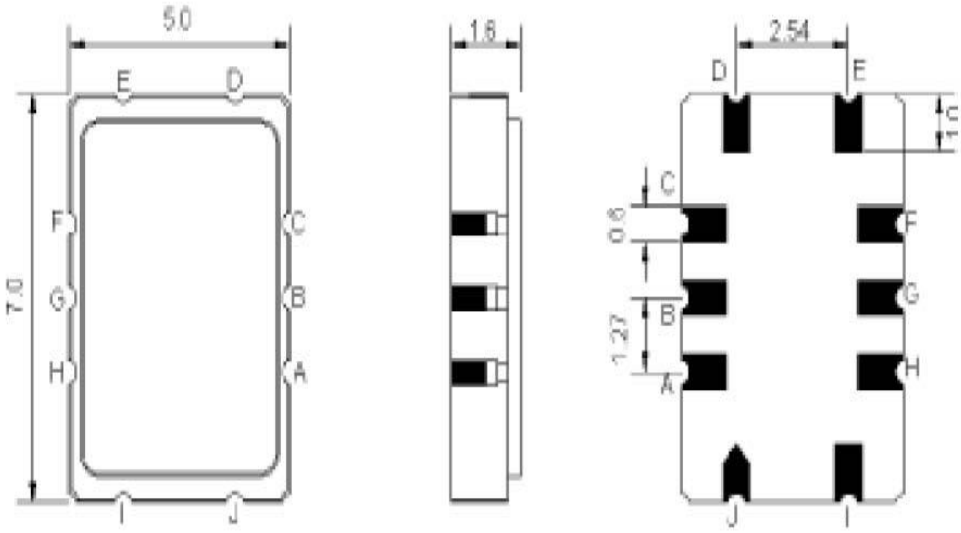
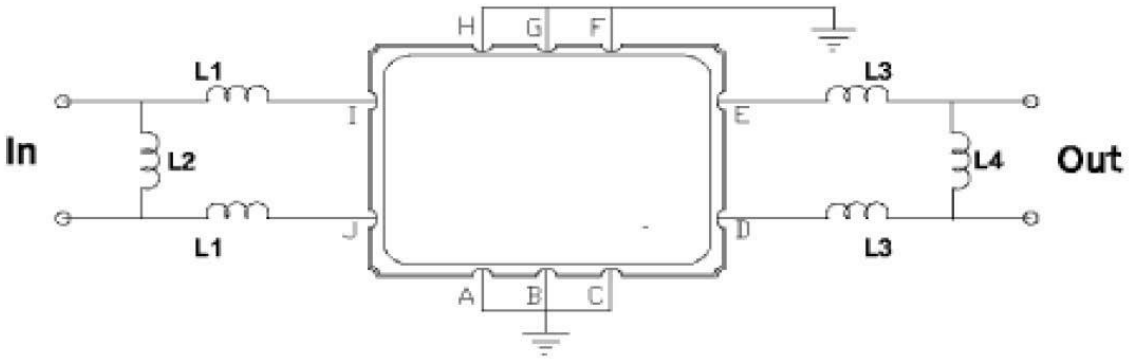
Outline Drawing:



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

Testing Environment:



Test Fixture & Values	
Input	L1=27 nH , L2=180 nH, Q>35
Output	L3=33 nH , L4=150 nH, Q>35
Source/Load Impedance	1000/500 Ω

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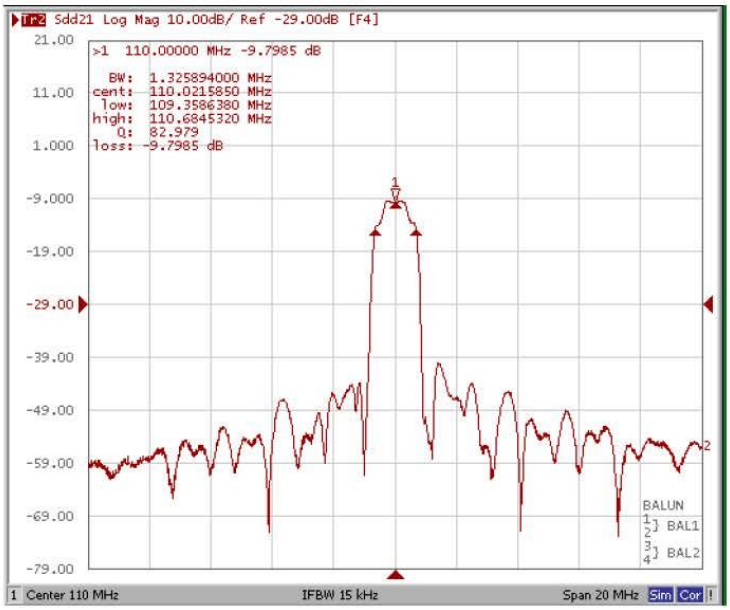
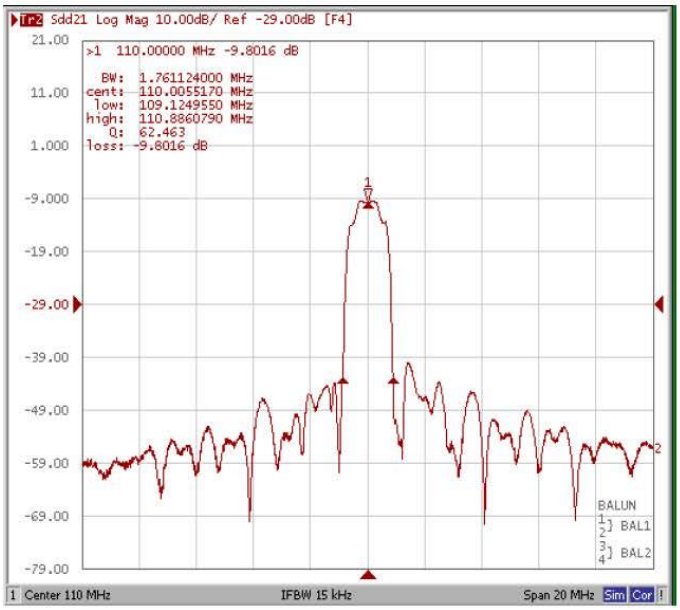
Frequency Response:

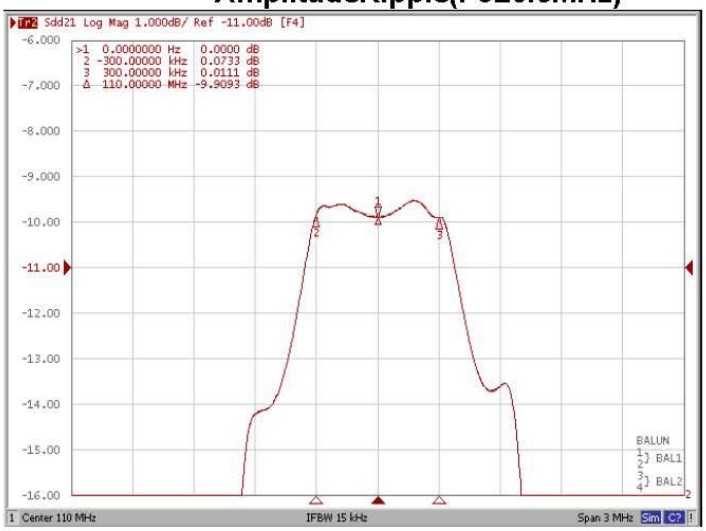
Bandwidth at –5.0 dB



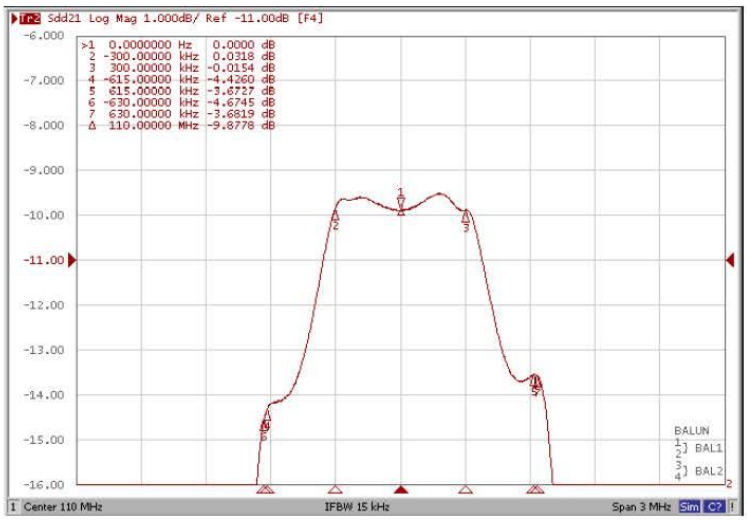
Bandwidth at –33.0 dB



AmplitudeRipple(Fo±0.3MHz)



Attenuation



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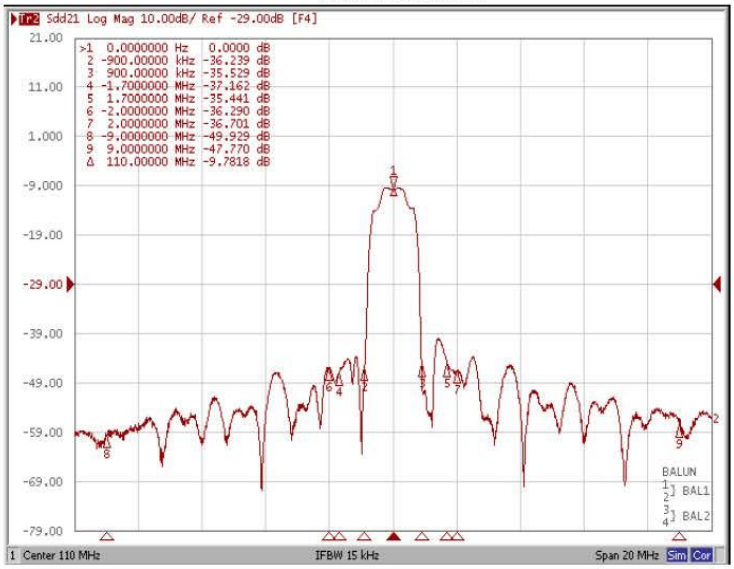
Frequency Response:

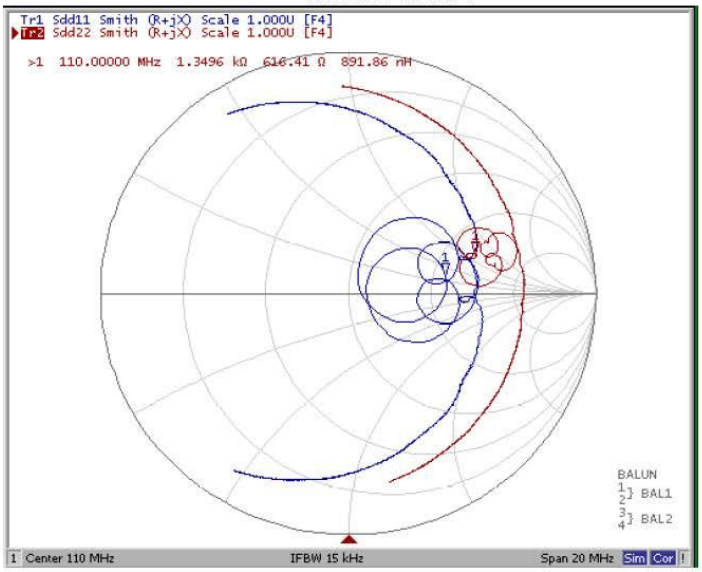
Phase Linearity(Fo±0.615MHz)

Phase Linearity(Fo±0.620MHz)

Attenuation



Smith Chart



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