



103 MHz IF Saw Filter 9 MHz Bandwidth

Part Number: AM103S579



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	102.90	103.00	103.10
Insertion Loss at Fo	dB	-	21.00	22.70
Passband Ripple Variation	dB	-	0.50	0.95
Group Delay Variation	nsec	-	70	150
Absolute Delay at Fo	usec	-	2.30	-
Bandwidth at -1.0 dB	MHz	-	9.91	-
Bandwidth at -3.0 dB	MHz	10.10	10.20	-
Bandwidth at -50.0 dB	MHz	-	11.55	11.65
Temperature Coefficient	ppm/°C	-	-72	-
Ultimate Rejection	dB	50	53	-

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	



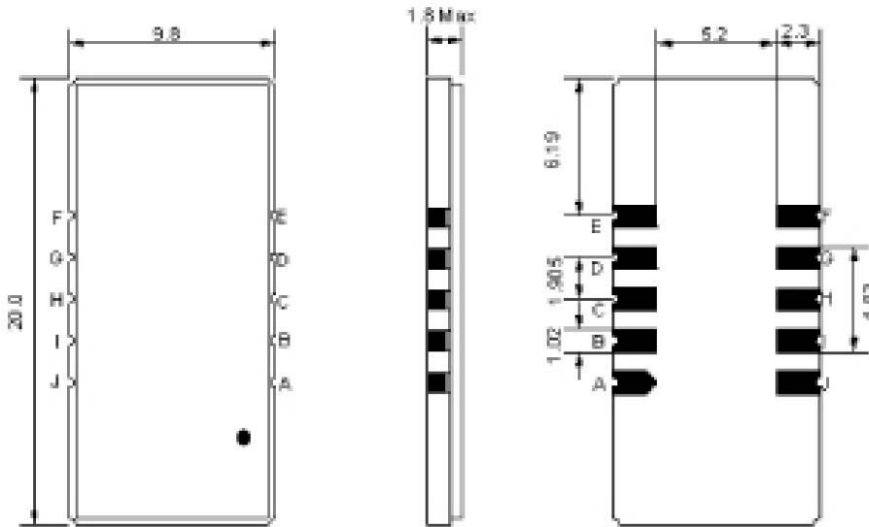
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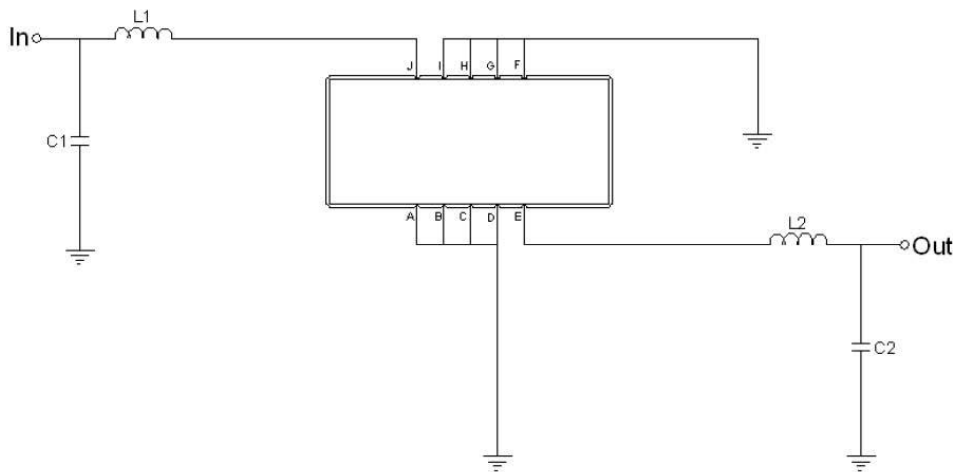
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Outline Drawing:



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

Testing Environment:



Pin Description		
Ground	L1 = 18 nH	C1 = 10 pF
Input	L2 = 18 nH	C2 = 10 pF
Source/Load Impedance	50 Ω	



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Frequency Response:

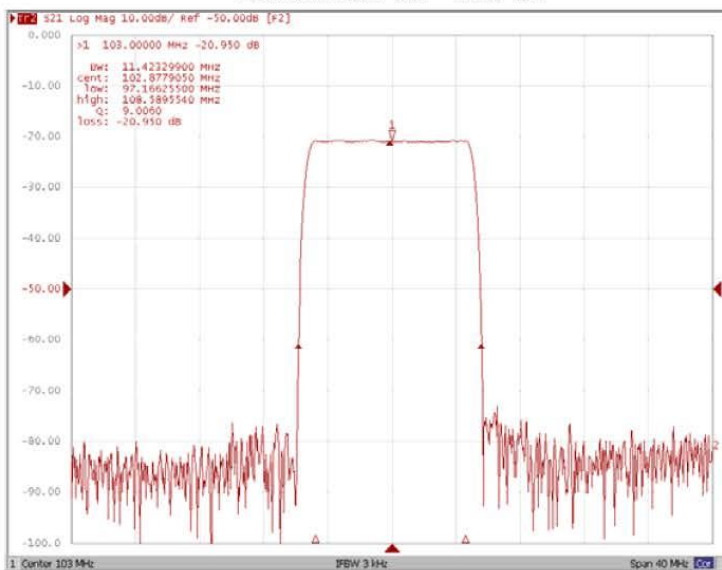
Bandwidth at -1.0 dB



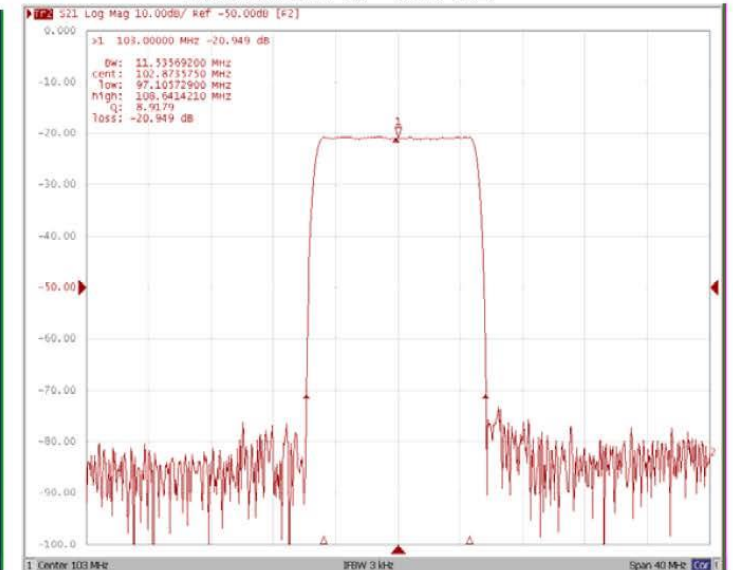
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



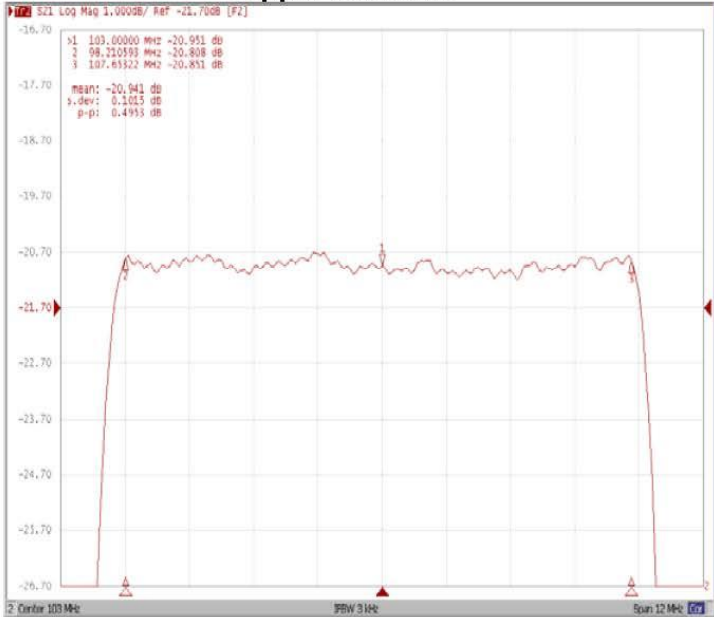
Bandwidth at -50.0 dB



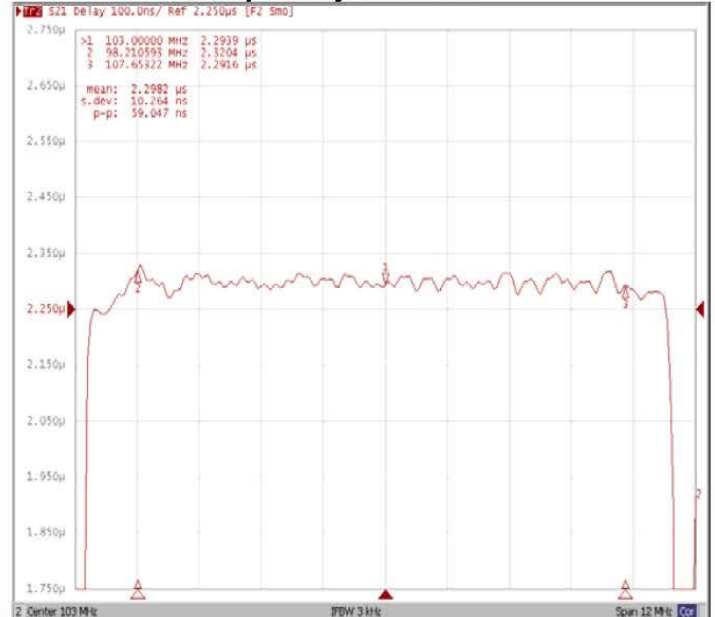


Frequency Response:

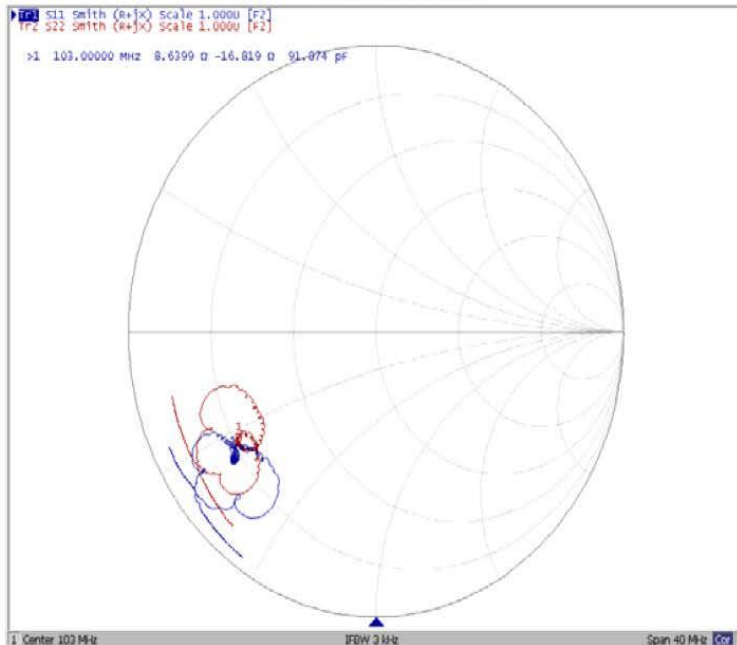
Ripple Variation



Group Delay Variation



Smith Chart



VSWR

