



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

104 MHz IF Saw Filter

Part Number: AM104S684



Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	104.0	-
Insertion Loss at Fo	dB	-	14.0	15.5
Amplitude Ripple within Fo $\pm$ 2.5 MHz	dB	-	0.5	1.0
Group Delay Variation within Fo $\pm$ 2.5 MHz	nsec	-	60	100
Absolute Delay at Fo	usec	-	1.63	-
Bandwidth at -1.0 dB	MHz	5.50	5.60	-
Bandwidth at -3.0 dB	MHz	-	5.98	-
Bandwidth at -40.0 dB	MHz	-	7.70	-
Temperature Coefficient	ppm/°C	-	-18	-
Relative Attenuation:				
Fo $\pm$ 4.0 MHz	dB	-	50	-
Lower Sidelobe	dB	45	50	-
Upper Sidelobe	dB	45	50	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	0	-	+70
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	13.3 x 6.5 x 1.8 mm V			



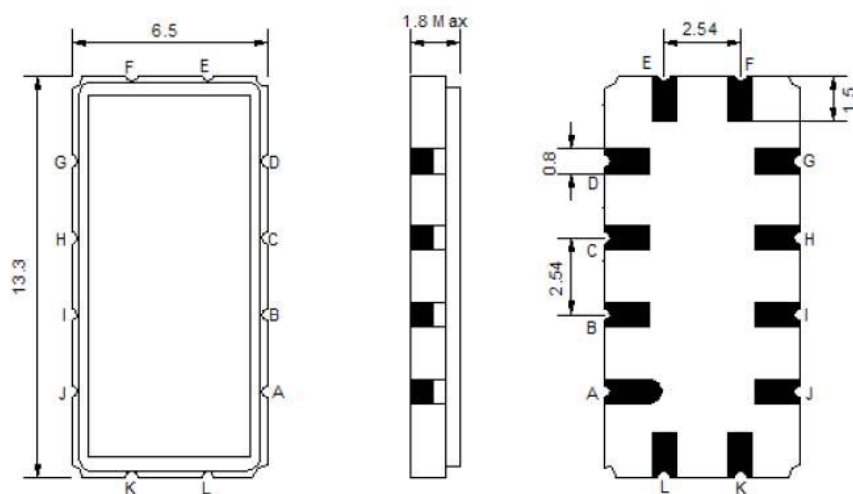
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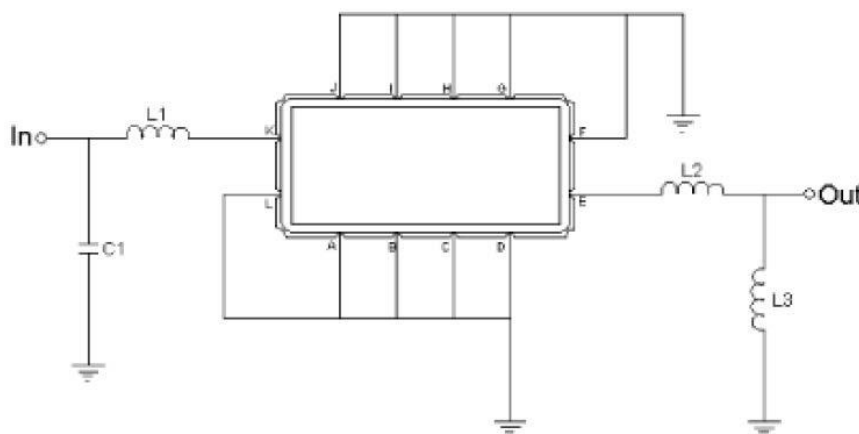


Outline Drawing:



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

Testing Environment:



Test Fixture & Values		
Input	L1=82nH ,	C1=47pF
Output	L2=18nH ,	L3=39nH
Source/Load Impedance	50 Ω	



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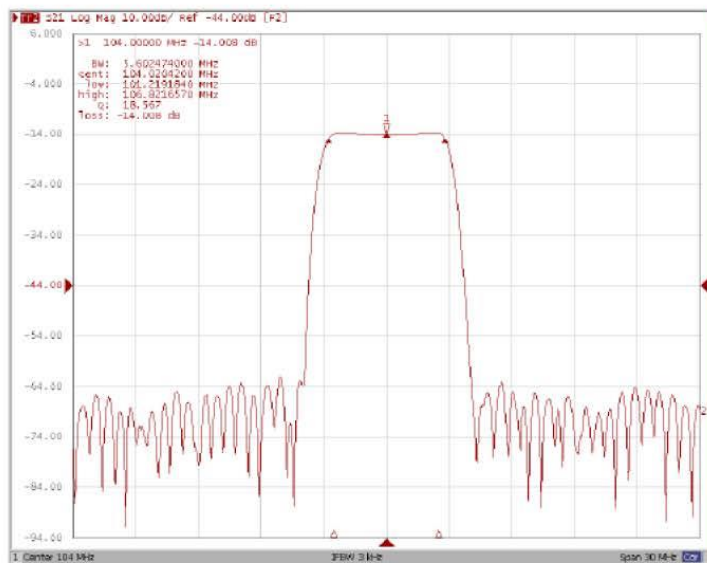
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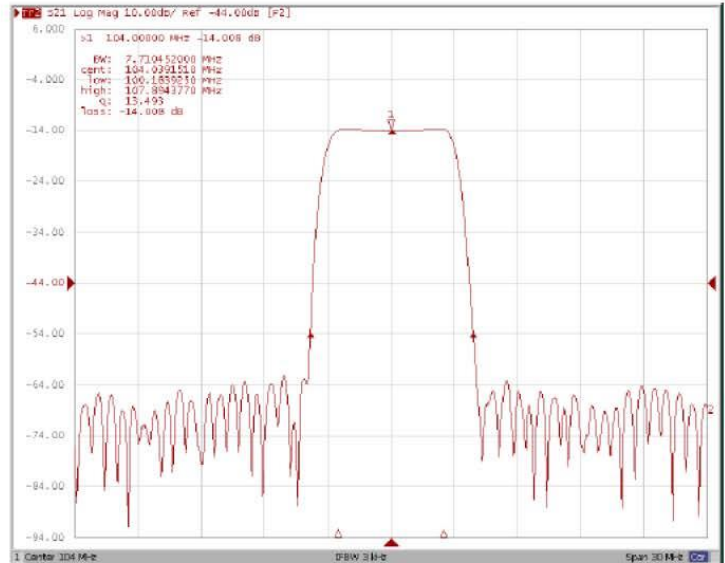


Frequency Response:

Bandwidth at -1.0 dB



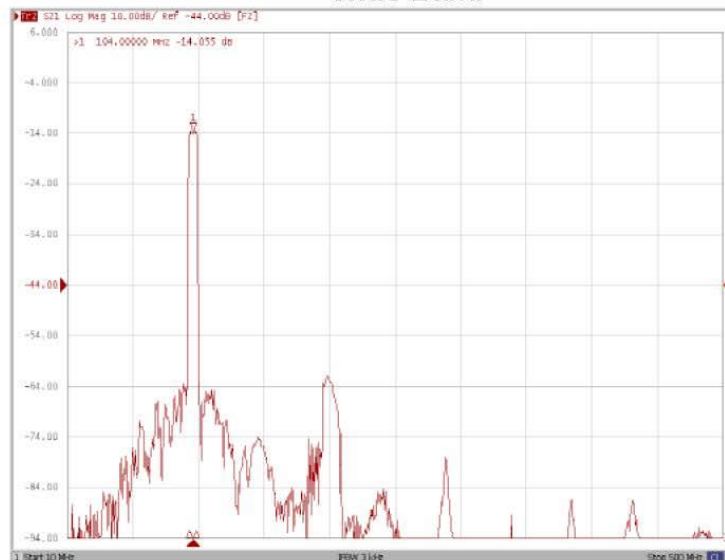
Bandwidth at -40.0 dB



Attenuation Fo $\pm$ 4.0MHz



Wide-Band





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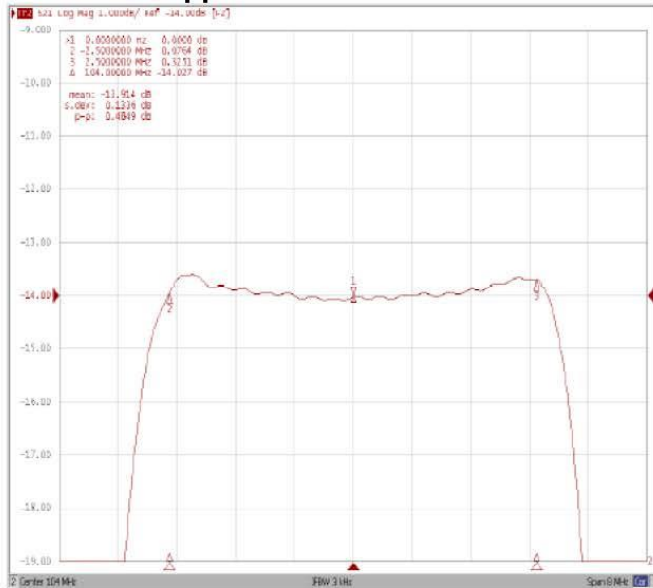
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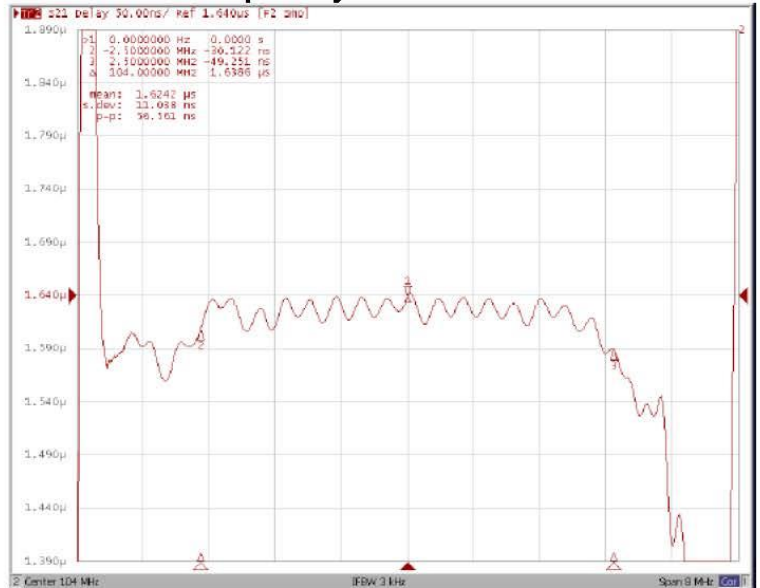


Frequency Response:

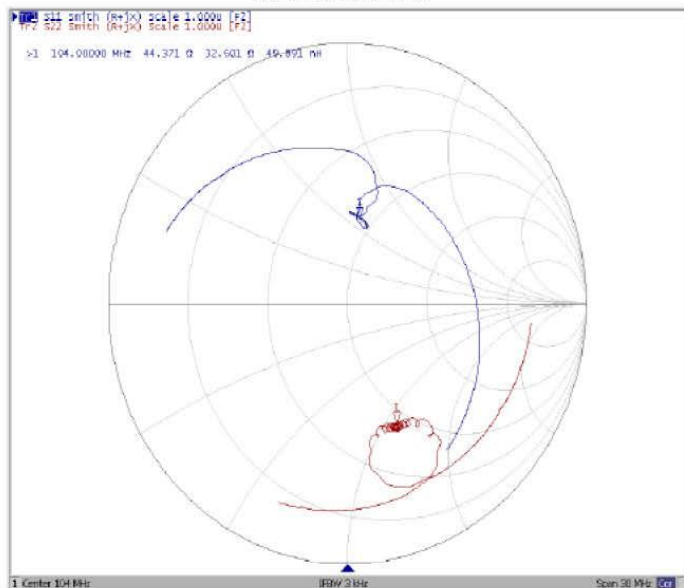
Ripple Variation Fo $\pm$ 2.5MHz



Group Delay Variation Fo $\pm$ 2.5MHz



Smith Chart



SWR

