



136 MHz IF Saw Filter 2 MHz Bandwidth

Part Number: AM136S608

ANATECH ELECTRONICS INC
RF & Microwave Filters & Products



Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	137.35	137.50	137.65
Insertion Loss at Fo	dB	-	13.0	15.0
Amplitude Ripple at Fo ± 2.2 MHz	dB	-	0.3	0.8
Group Delay Variation at Fo ± 2.2 MHz	nsec	-	30	70
Absolute Delay at Fo	usec	-	1.06	-
Bandwidth at -1.0 dB	MHz	5.1	5.3	-
Bandwidth at -3.0 dB	MHz	-	5.9	-
Bandwidth at -40.0 dB	MHz	-	8.2	8.6
Relative Attenuation:				
Fo ± 2.75 MHz	dB	55	60	-
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-0.03	-

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	



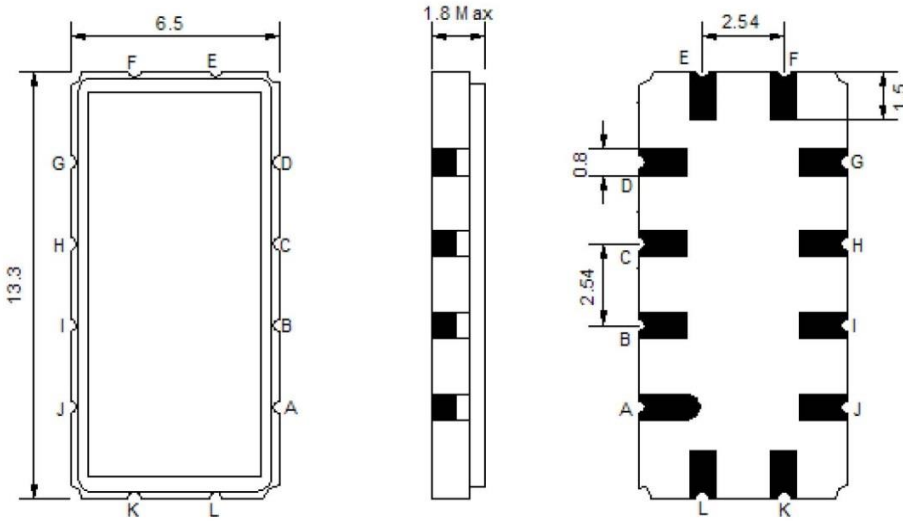
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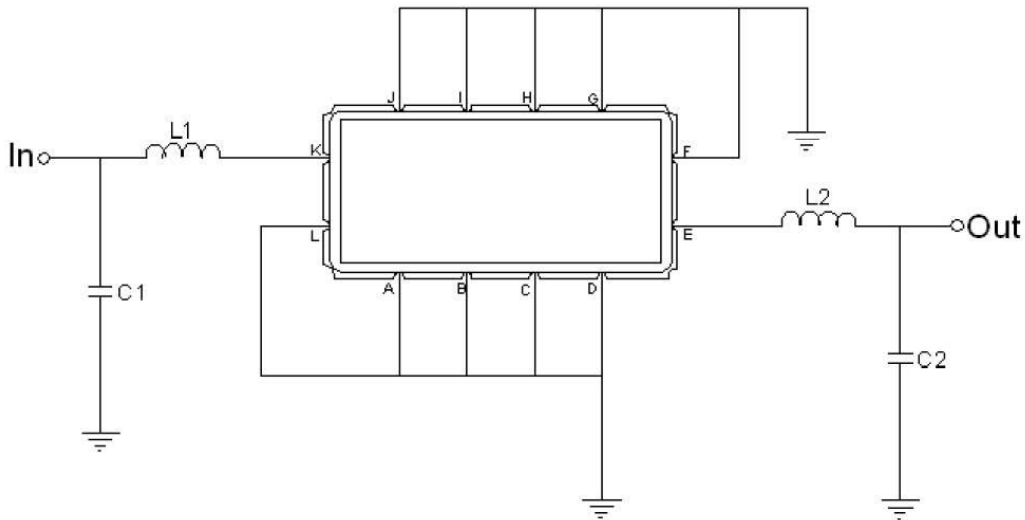
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Outline Drawing:



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=36pF
Output	L2=68nH ,	C1=47pF
Source/Load Impedance	50 Ω	



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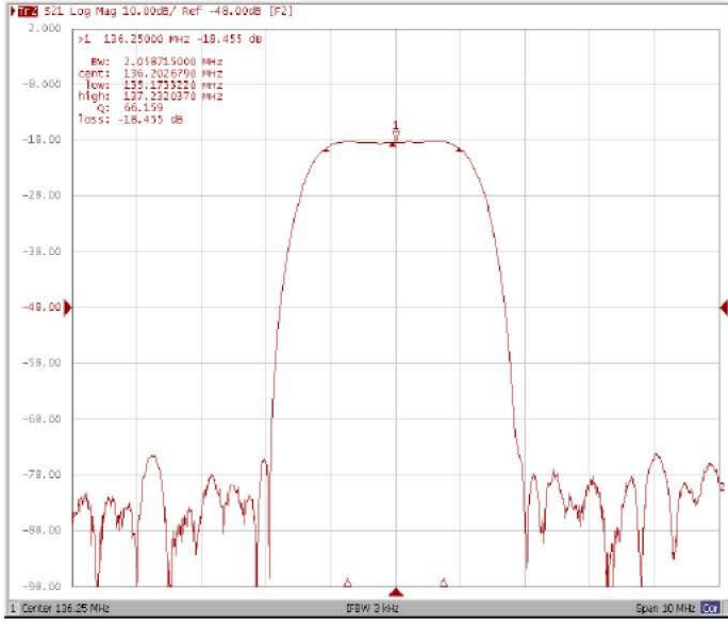
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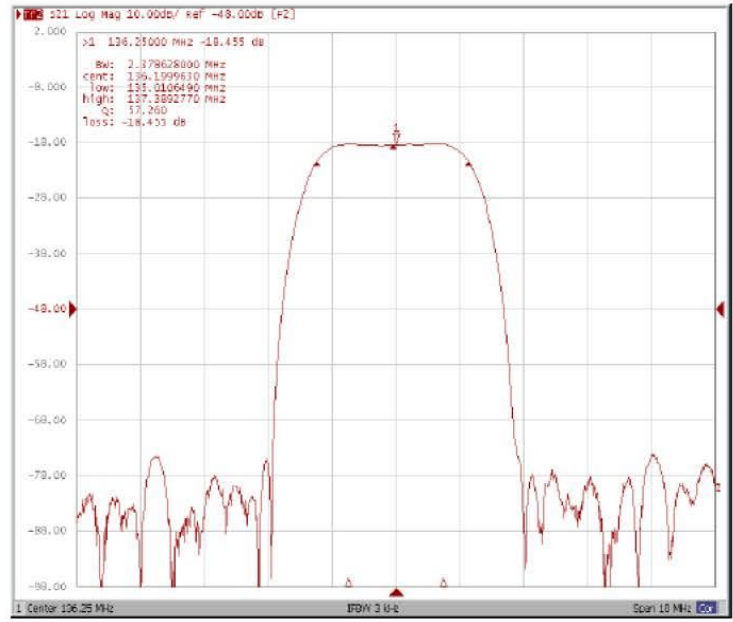
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Frequency Response:

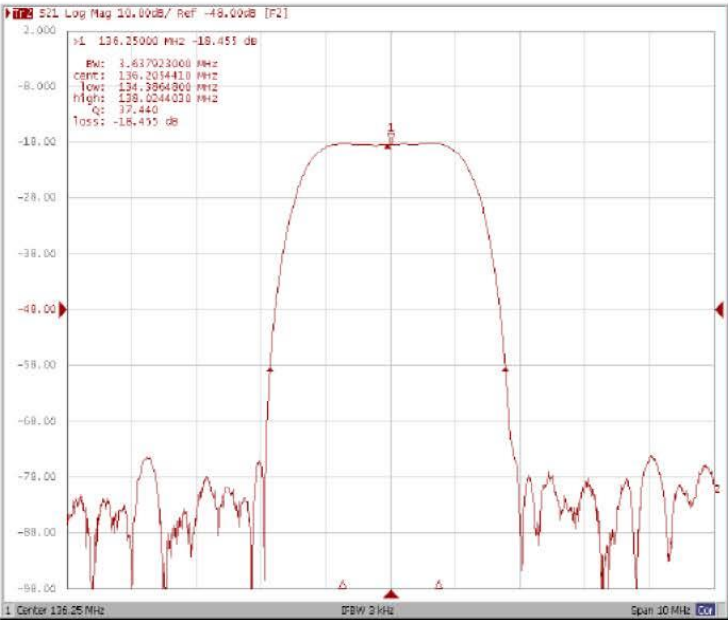
Bandwidth at -1.0 dB



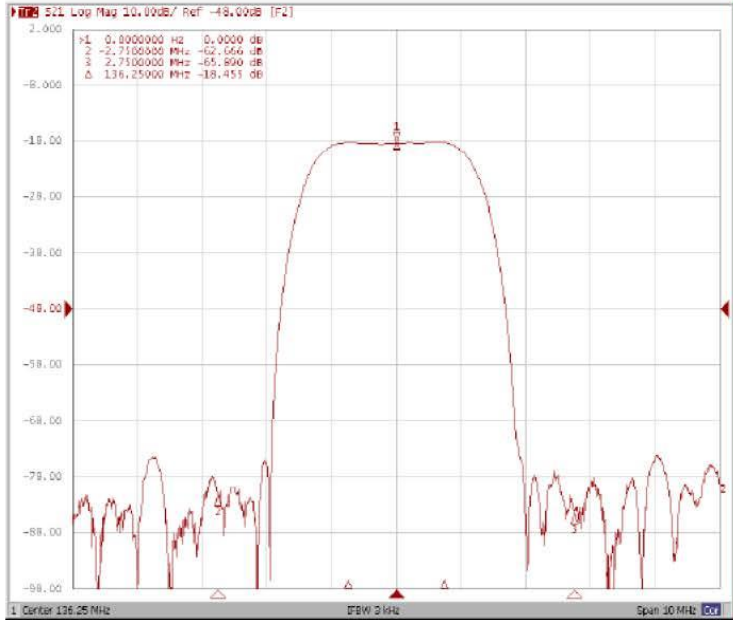
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Attenuation Fo±2.75MHz





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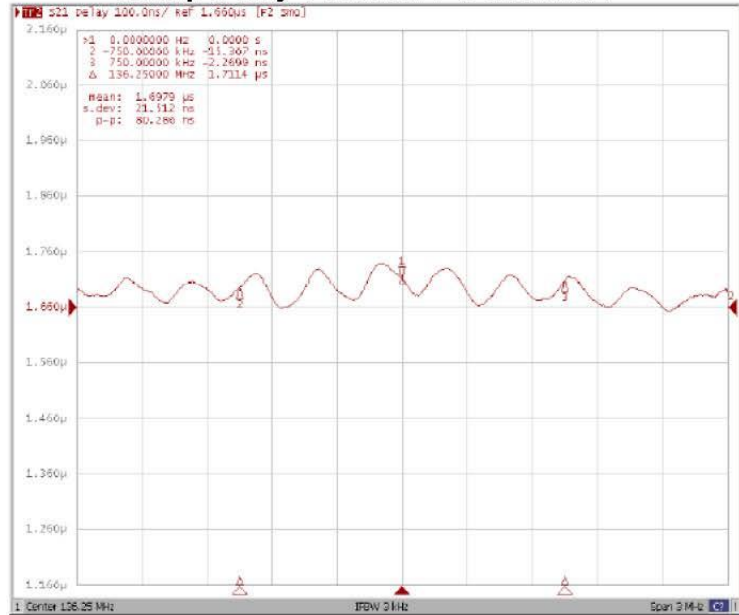
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Frequency Response:

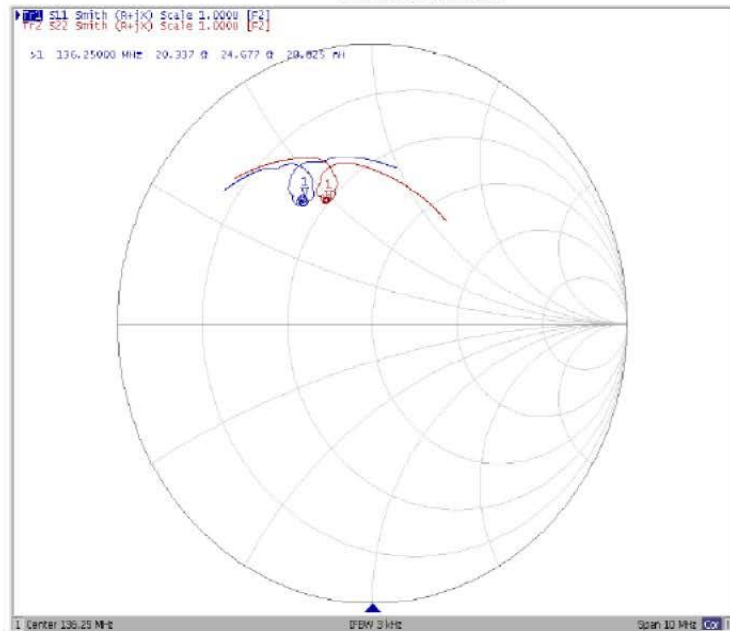
Ripple Variation Fo±0.75MHz



Group Delay Variation Fo±0.75MHz



Smith Chart



SWR

