



74 MHz IF Saw Filter 10 MHz Bandwidth

Part Number: AM74S654



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	74.9875	-
Insertion Loss at Fo	dB	-	20.0	23.0
Passband Ripple (Fo ± 4.6875 MHz)	dB	-	0.46	1.00
Group Delay Variation (Fo ± 4.6875 MHz)	nsec	-	50	100
Absolute Delay	µsec	-	2.32	-
Bandwidth at -1.0 dB	MHz	9.375	10.00	-
Bandwidth at -3.0 dB	MHz	-	11.50	-
Bandwidth at -40.0 dB	MHz	-	11.65	12.10
Ultimate Rejection	dB	-	50	-
Relative Attenuation at Fo ± 5.9125 MHz	dB	30	50	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	0	-	+60
Storage Temperature Range	°C	-20	-	+70
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	



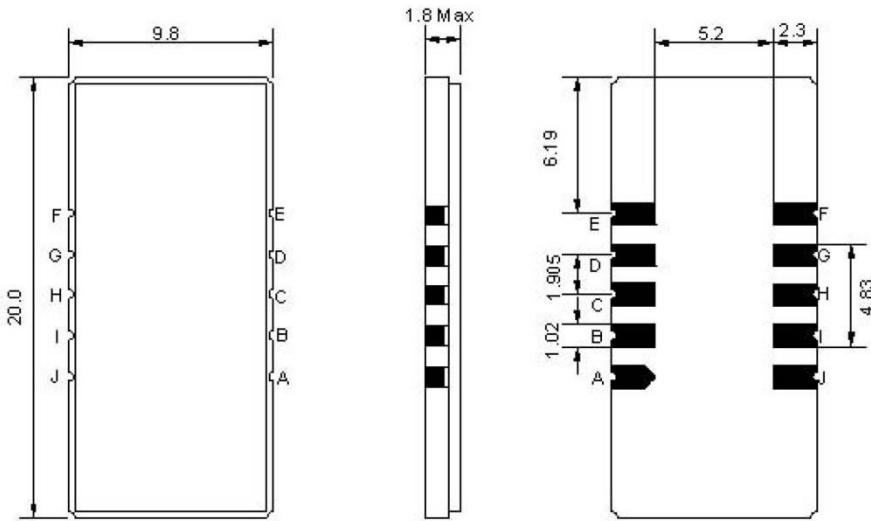
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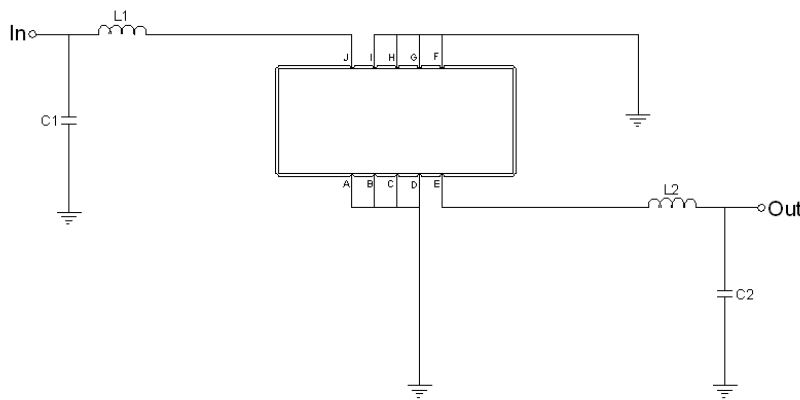
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Outline Drawing:



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

Testing Environment:



Test Fixture & Values	
Input	L1 = 56 nH C1 = 20 pF
Output	L2 = 56 nH C2 = 20 pF
Source/Load Impedance	50 Ω



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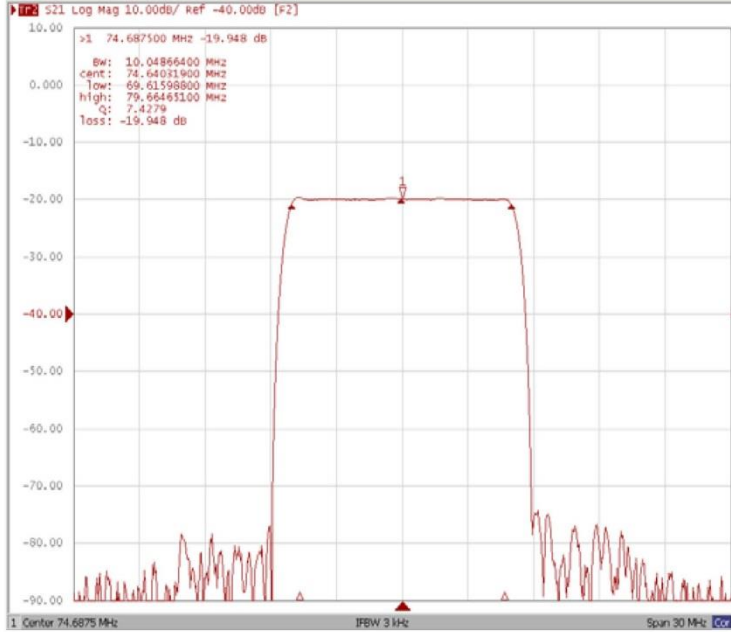
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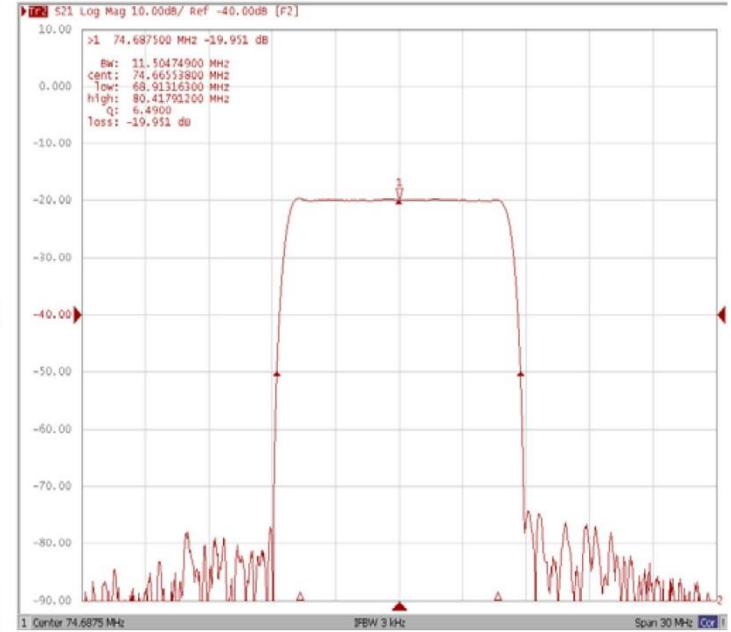


Frequency Response:

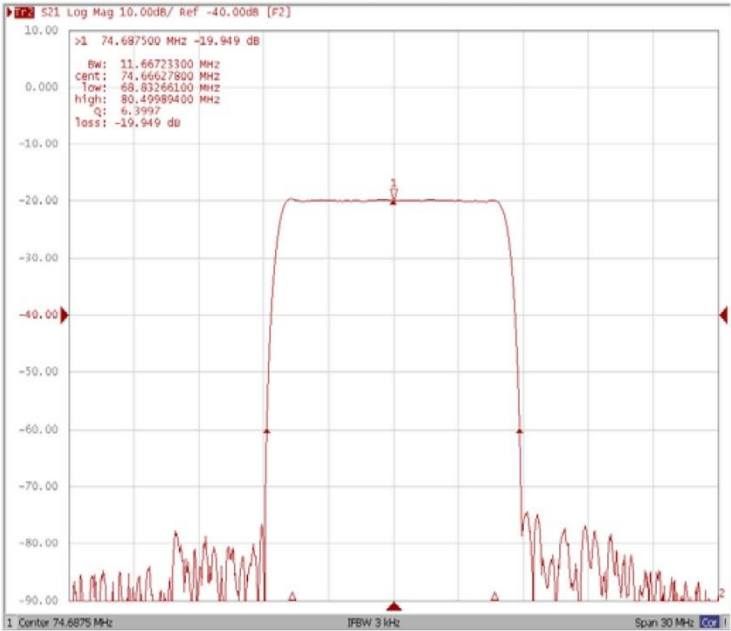
Bandwidth at -1.0 dB



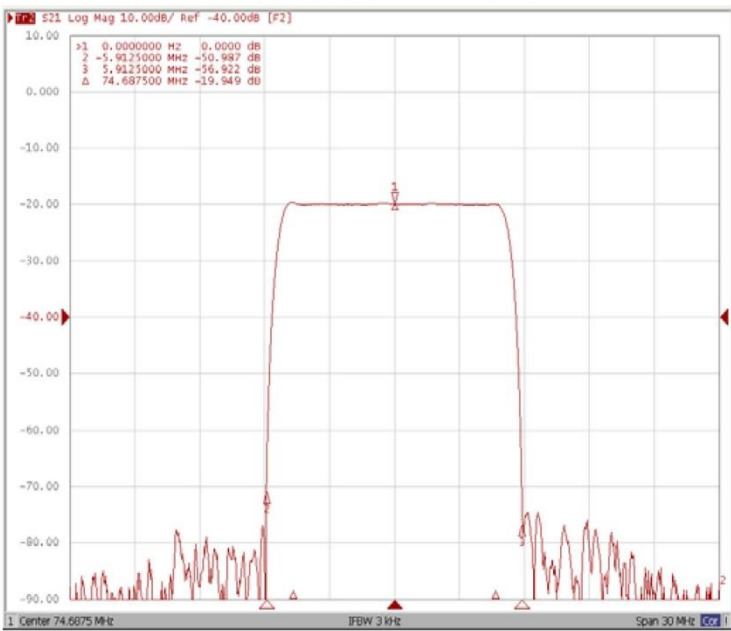
Bandwidth at -30.0 dB



Bandwidth at -40.0 dB



Relative Attenuation Fo±5.9125MHz





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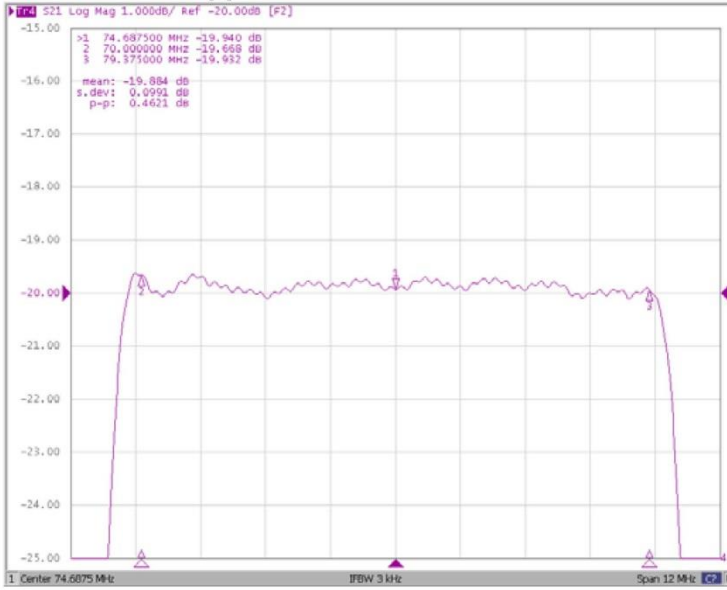


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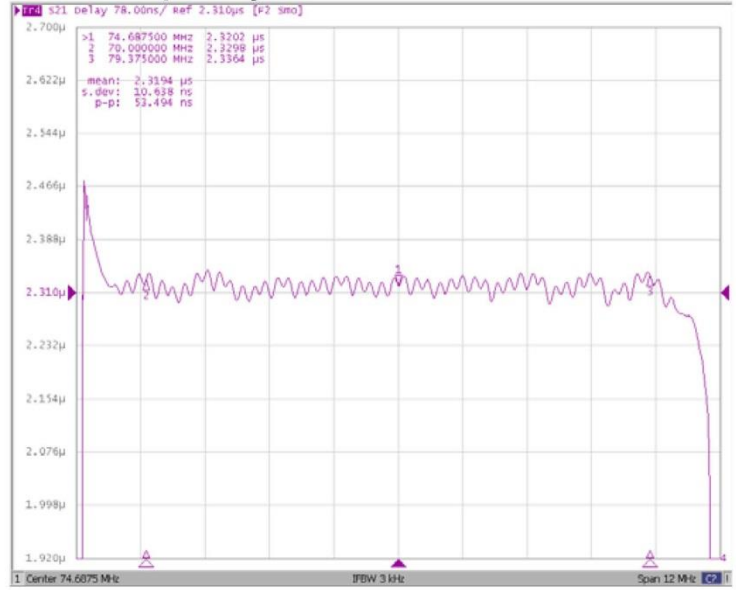
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Frequency Response:

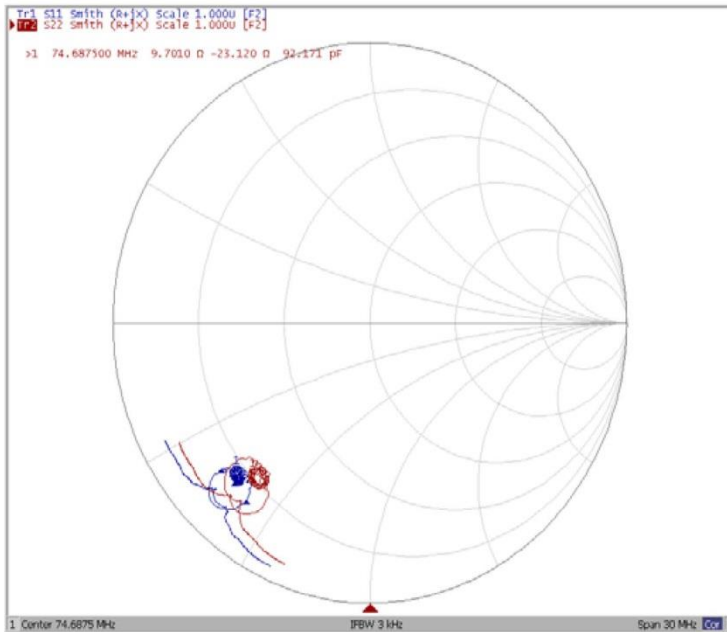
Ripple Variation Fo±4.6875MHz



Group Delay Variation Fo±4.6875MHz



Smith Chart



VSWR

