



# 70 MHz IF Saw Filter 19 MHz Bandwidth



**ANATECH ELECTRONICS INC**  
RF & Microwave Filters & Products

**Part Number: AM70S556**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	70.05	70.1	70.20
Insertion Loss at Fo	dB	-	27.0	29.0
Amplitude Ripple within Fo ± 9.65 MHz	dBp-p	-	0.60	1.0
Group Delay Variation within Fo ± 9.65 MHz	nsec	-	30	80
Absolute Delay at Fo	µsec	-	1.69	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	19.70	19.83	-
Bandwidth at -3.0 dB	MHz	-	20.36	-
Bandwidth at -40.0 dB	MHz	-	22.38	22.50
<b>Relative Attenuation:</b>				
Fo ± 14.42 MHz	dB	-	50	-
Lower Sidelobe	dB	-	50	-
Upper Sidelobe	dB	-	50	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-	+25	-
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (Single Ended) <sub>1</sub>	Ω	-	50	-
Load Impedance (Single Ended) <sub>1</sub>	Ω	-	50	-
Package Size and Type		13.3 x 6.5 x 1.8 mm		V



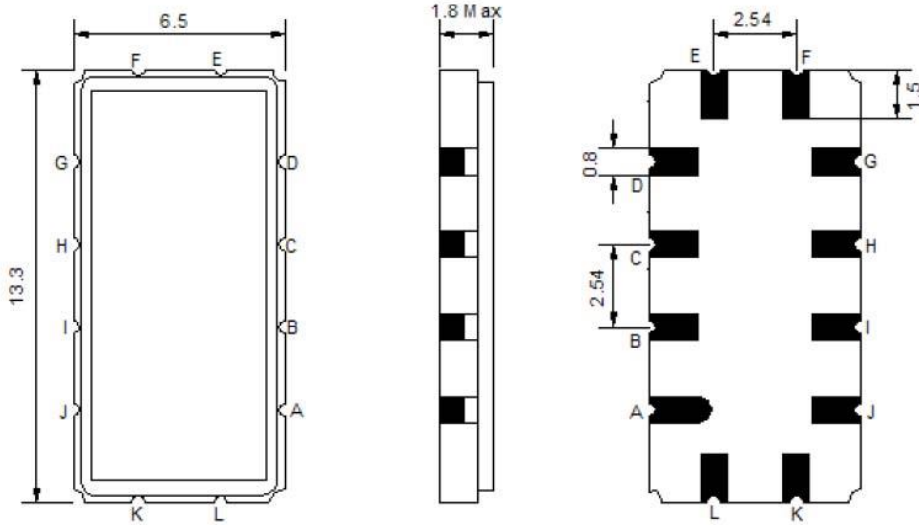
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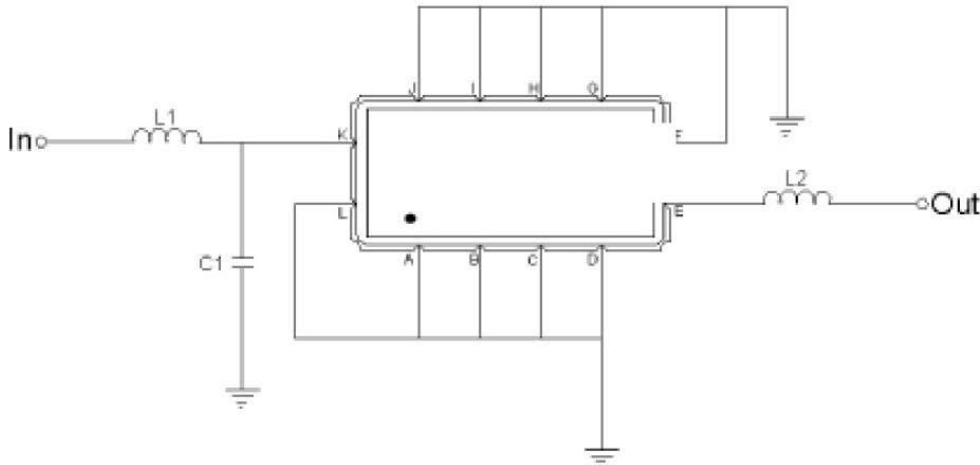
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### Outline Drawing:



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

### Testing Environment:



Test Fixture & Values		
Input	L1=100nH ,	C1=20pF
Output	L2=100nH ,	
Source/Load Impedance	50 Ω	



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### Frequency Response:

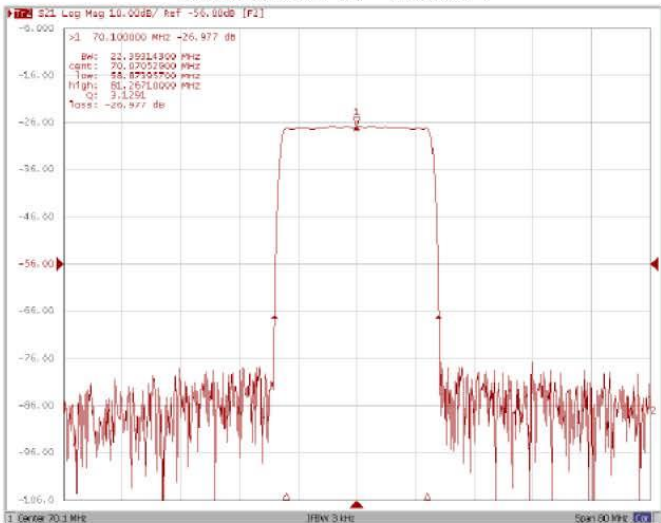
#### Bandwidth at -1.0 dB



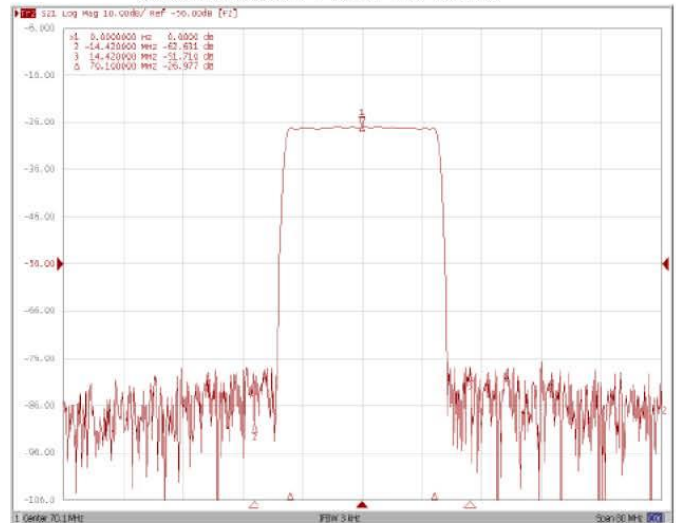
#### Bandwidth at -3.0 dB



#### Bandwidth at -40.0 dB



#### Attenuation Fo±14.42MHz





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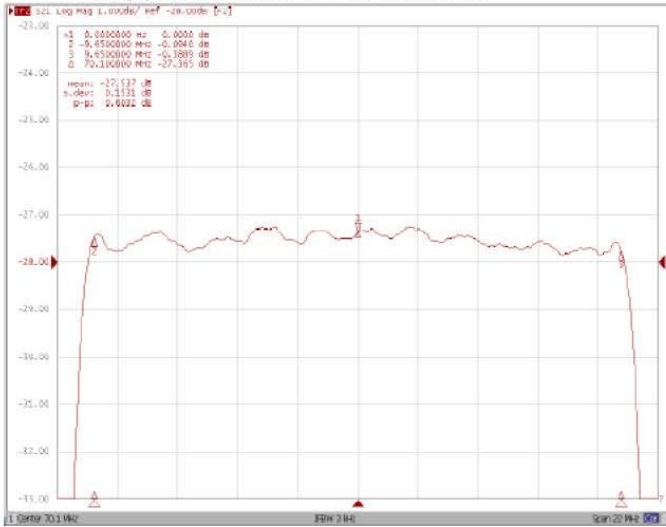
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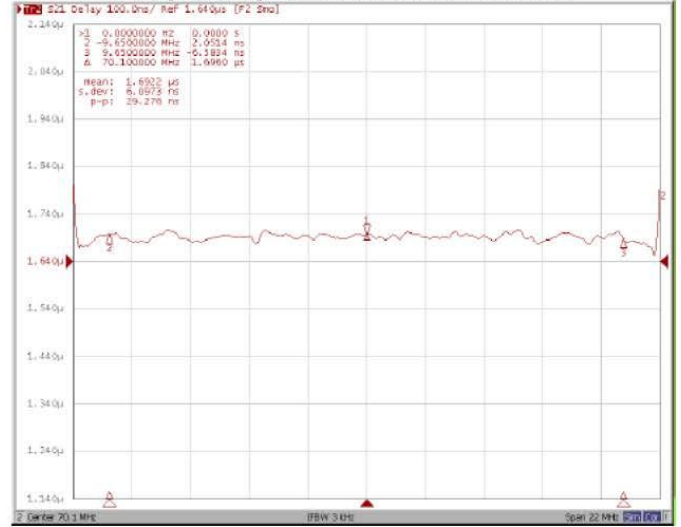
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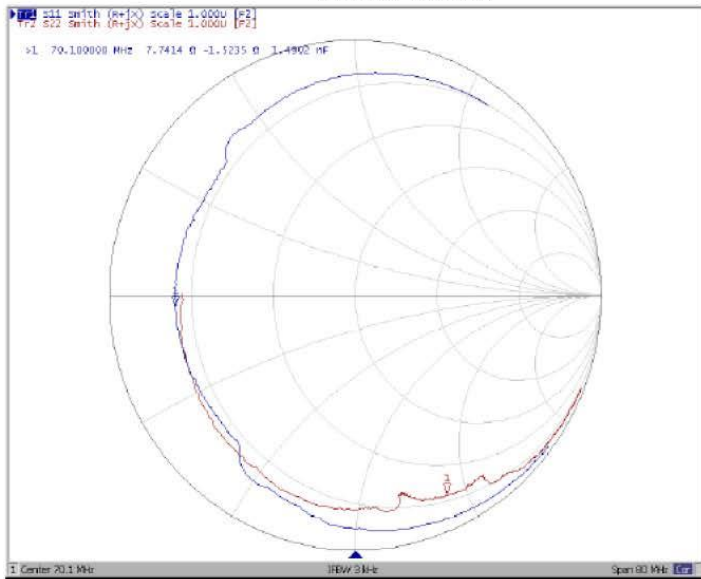
#### Ripple Variation Fo±9.65MHz



#### Group Delay Variation Fo±9.65MHz



#### Smith Chart



#### SWR

