



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

## 60 MHz IF Saw Filter

### Part Number: AM60S784

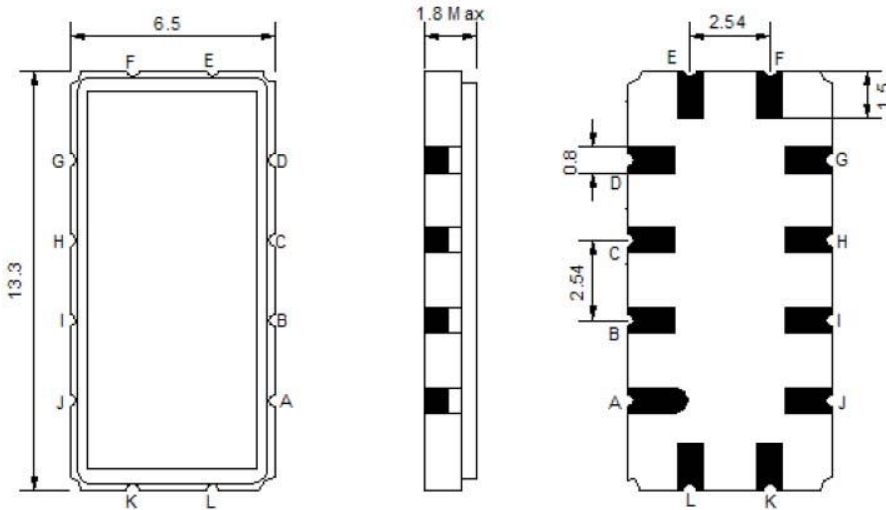


Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	60.0	-
Insertion Loss at Fo	dB	-	14.6	16.0
Group Delay Variation within Fo $\pm$ 9.22 MHz	nsec	-	30	80
Absolute Delay at Fo	$\mu$ sec	-	1.34	-
Passband Ripple within Fo $\pm$ 9.22 MHz	dBp-p	-	0.4	1.0
Bandwidth at -1.0 dB	MHz	18.44	20.05	-
Bandwidth at -10.0 dB	MHz	-	21.95	22.5
Bandwidth at -20.0 dB	MHz	-	22.75	23.1
Bandwidth at -30.0 dB	MHz	-	23.35	23.7
Bandwidth at -40.0 dB	MHz	-	24.0	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient	ppm/ $^{\circ}$ C	-	-86	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	$^{\circ}$ C	0	-	+70
Storage Temperature Range	$^{\circ}$ C	-30	-	+80
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (Single Ended) <sub>1</sub>	$\Omega$	-	50	-
Load Impedance (Single Ended) <sub>1</sub>	$\Omega$	-	50	-
Package Size and Type		13.3 x 6.5 x 1.8 mm		V

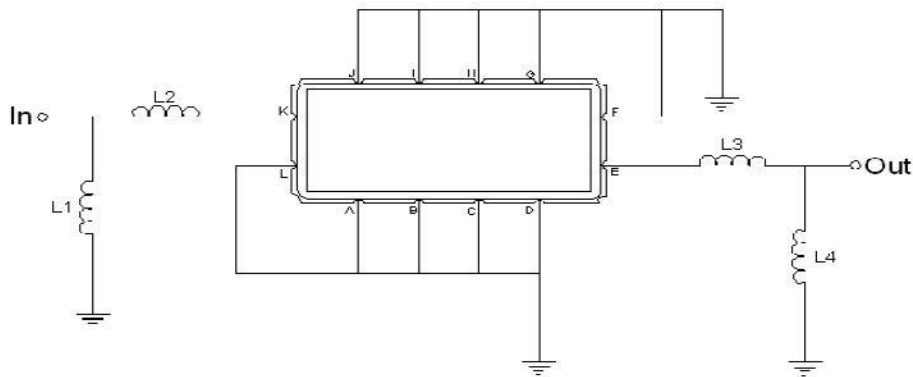


**Outline Drawing:**



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

**Testing Environment:**

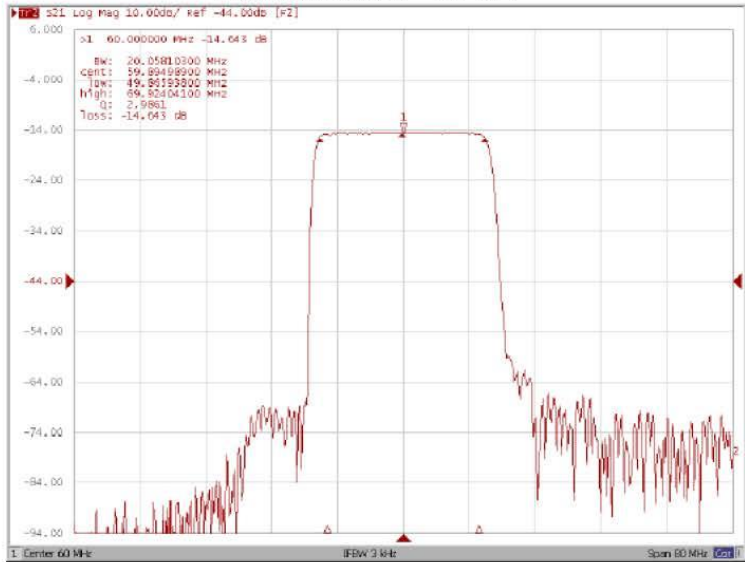


Test Fixture & Values	
Input	L1=100 nH, L2=22 nH
Output	L3=27 nH, L4=150 nH
Source/Load Impedance	50 Ω

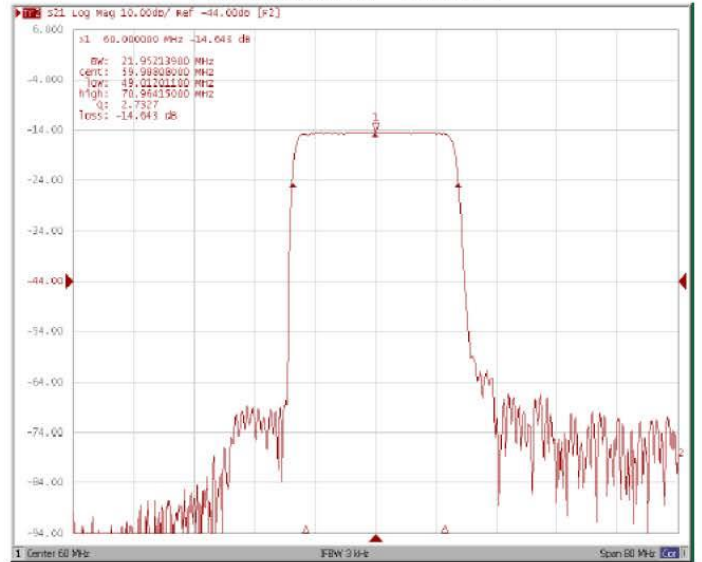


**Frequency Response:**

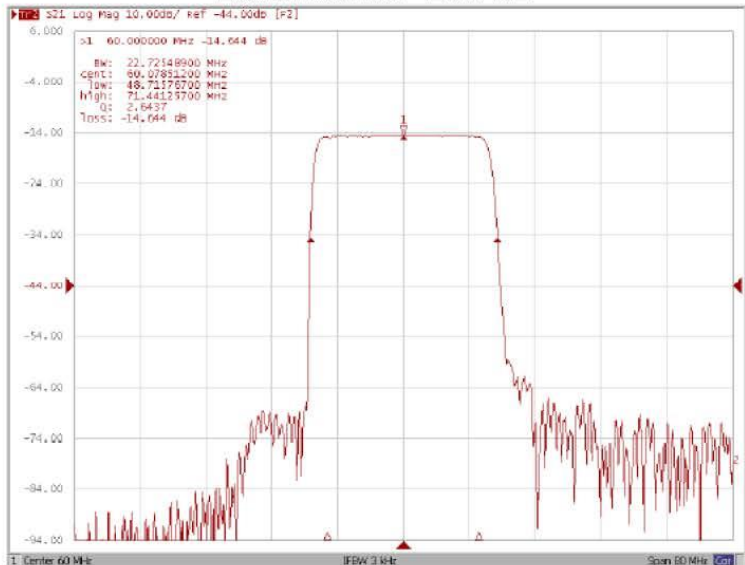
**Bandwidth at -1.0 dB**



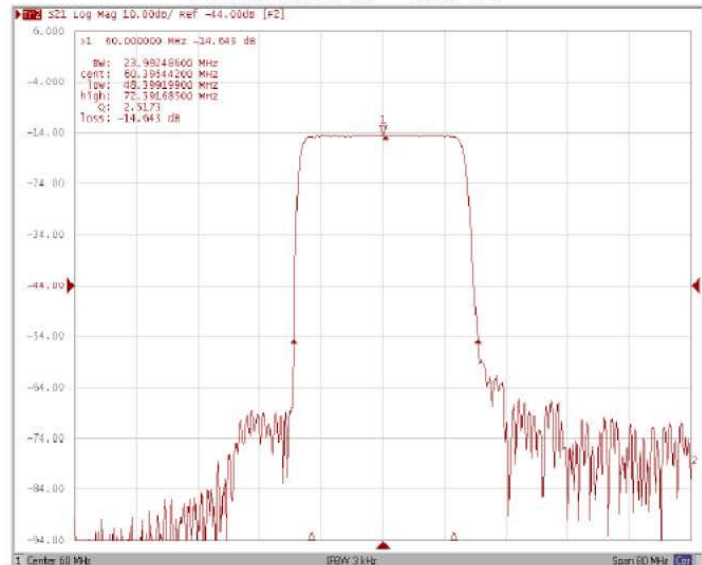
**Bandwidth at -10.0 dB**



**Bandwidth at -20.0 dB**



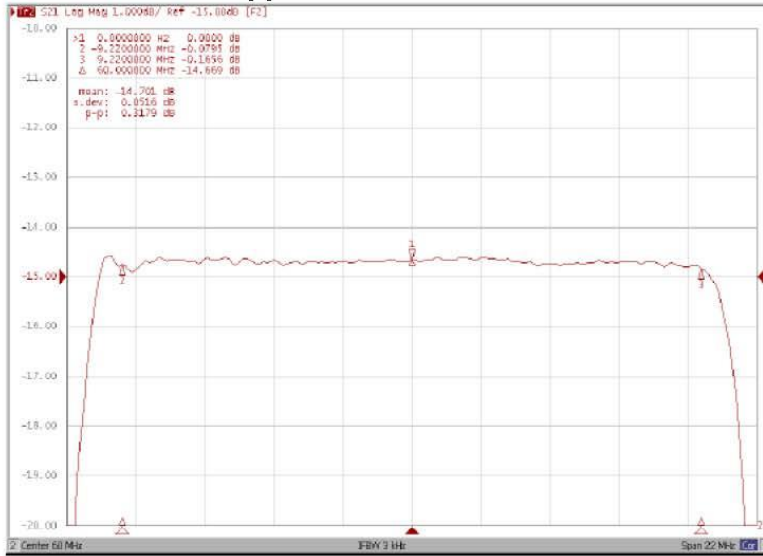
**Bandwidth at -40.0 dB**



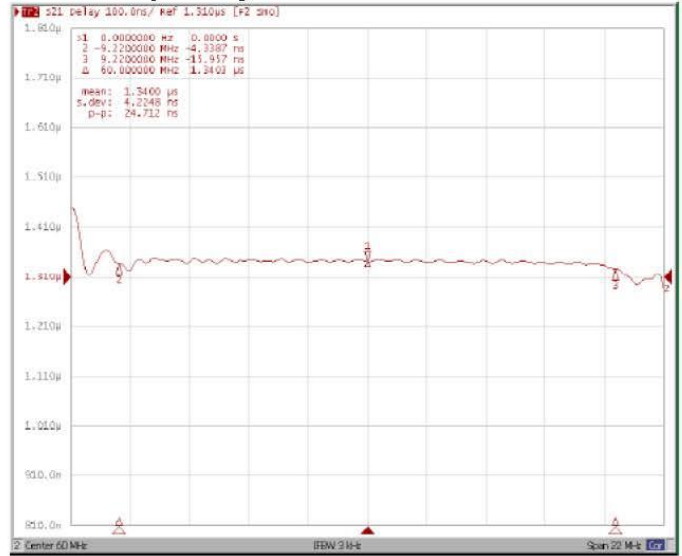


**Frequency Response:**

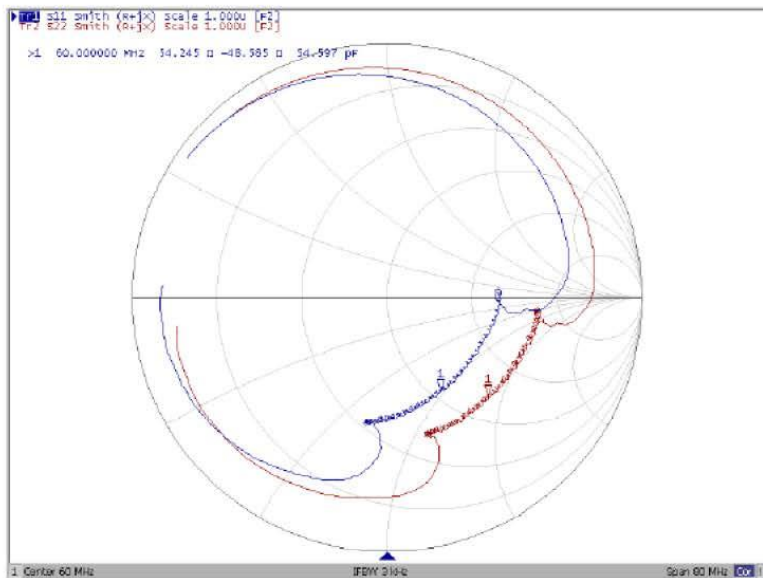
**Ripple Variation Fo±9.22MHz**



**Group Delay Variation Fo±9.22MHz**



**Smith Chart**



**VSWR**

