ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

75 MHz IF Saw Filter

Part Number: AM75S664

ISO 9001 REGISTERED FIRM

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	12.0	14.0
Amplitude Ripple within Fo ± 4.5 MHz	dB_{p-p}	-	0.4	0.65
Group Delay Variation within Fo ± 4.5 MHz	nsec	-	45	80
Absolute Delay at Fo	usec	-	1.16	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -1.0 dB	MHz	-	10.50	-
Bandwidth at -3.0 dB	MHz	-	11.20	-
Bandwidth at -40.0 dB	MHz	-	13.90	14.20
Input VSWR at Fo	dB	-	5.8	-
Output VSWR at Fo	dB	-	1.5	-
Relative Attenuation:				
Lower Sidelobe	dB	40	48	-
Upper Sidelobe	dB	40	45	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	30
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			

70 Outwater Lane Phone: (973) 772-4242
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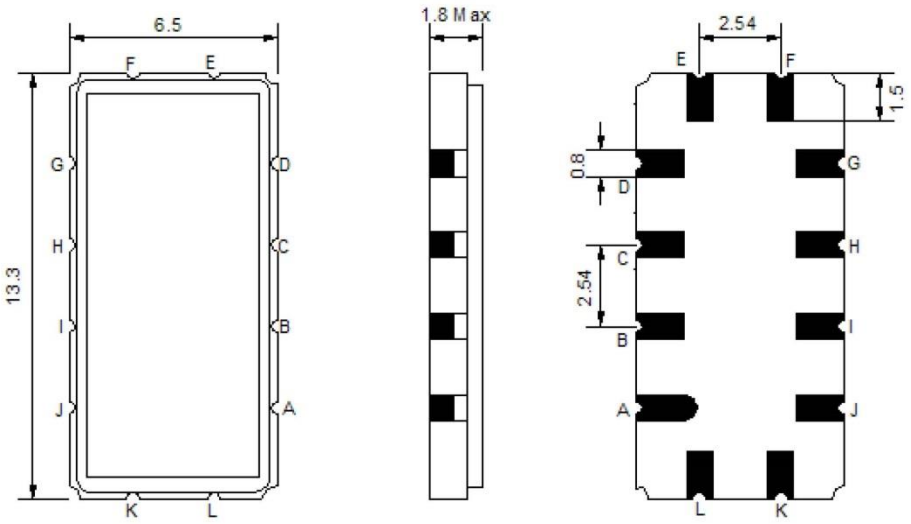
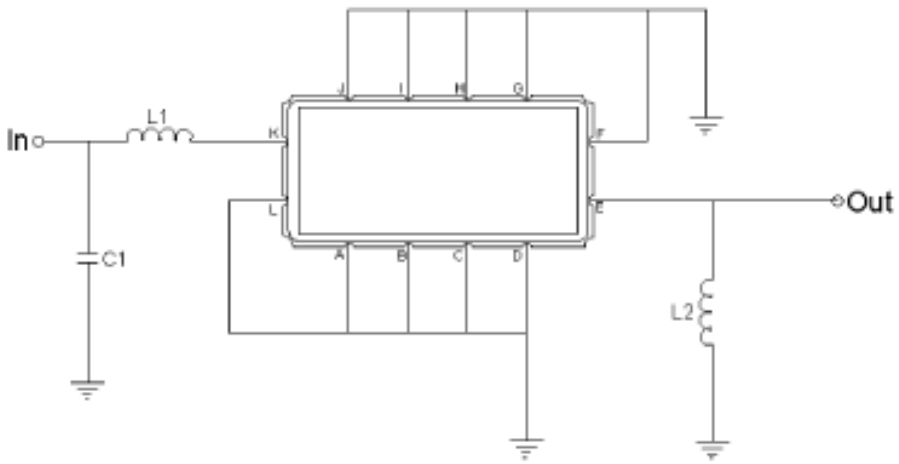
Outline Drawing:



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

Testing Environment:



Test Fixture & Values	
Input	L1 = 68 nH C1 = 22 pF
Output	L2 = 39 nH
Source/Load Impedance	50 Ω

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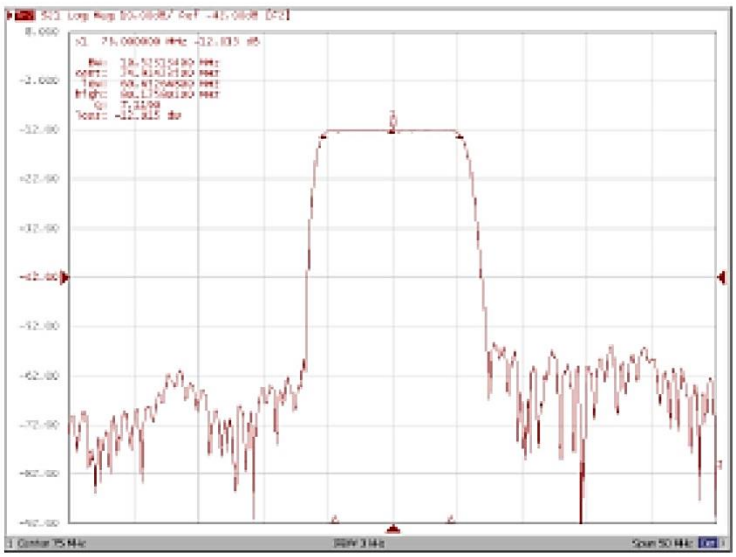
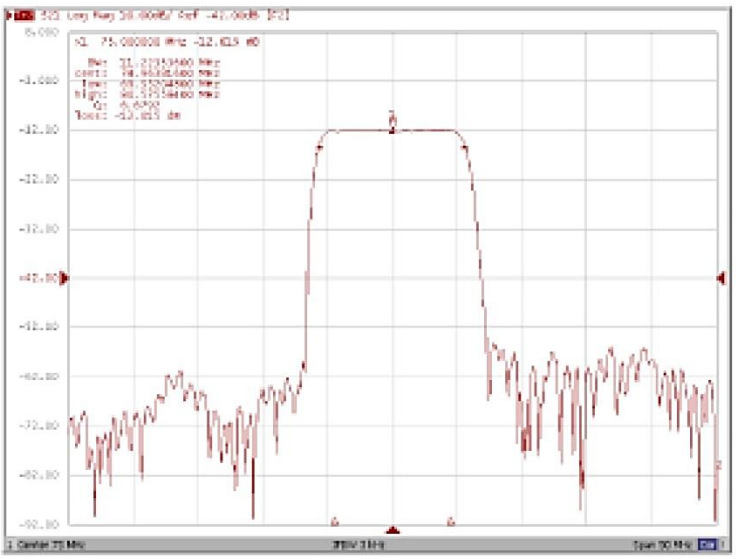
Frequency Response:

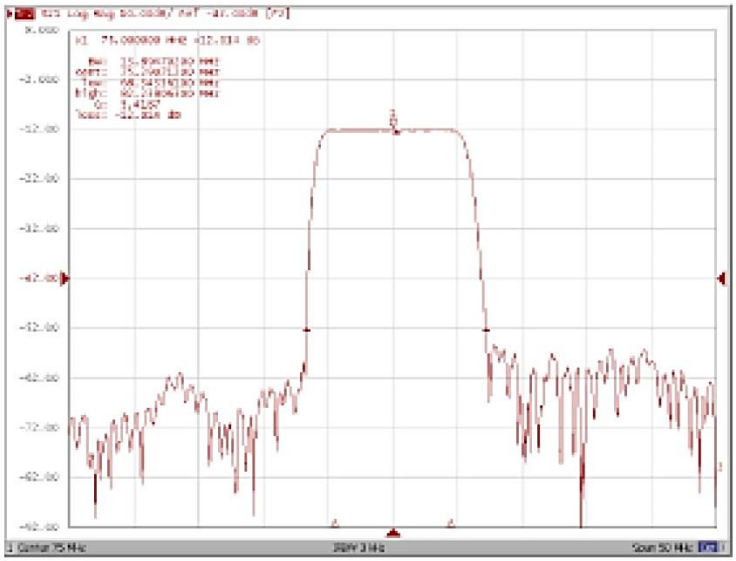
Bandwidth at –1.0 dB



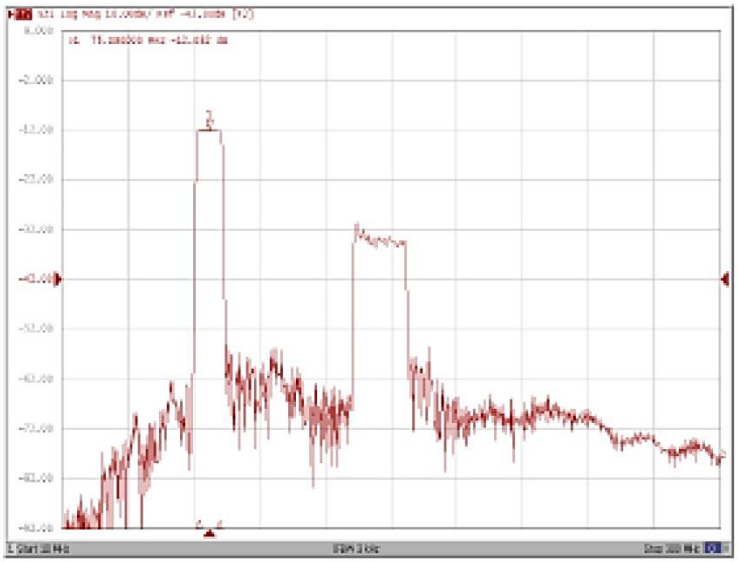
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



Wide-Band



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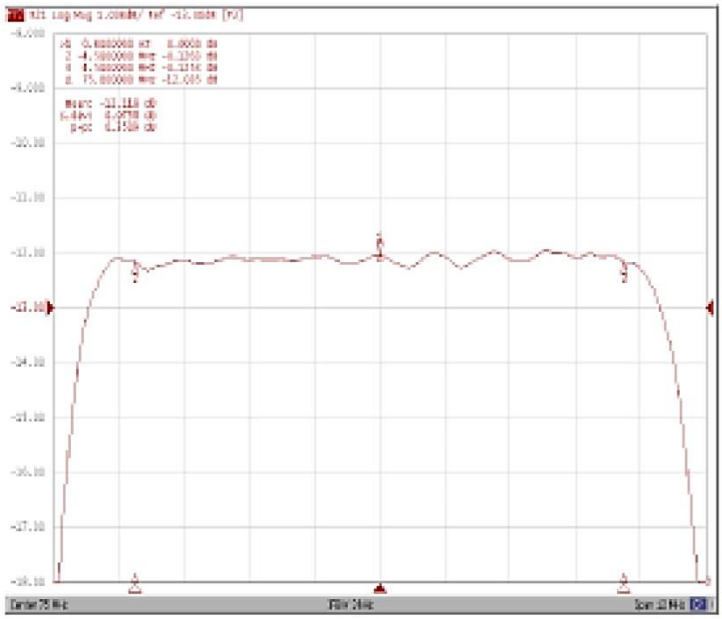
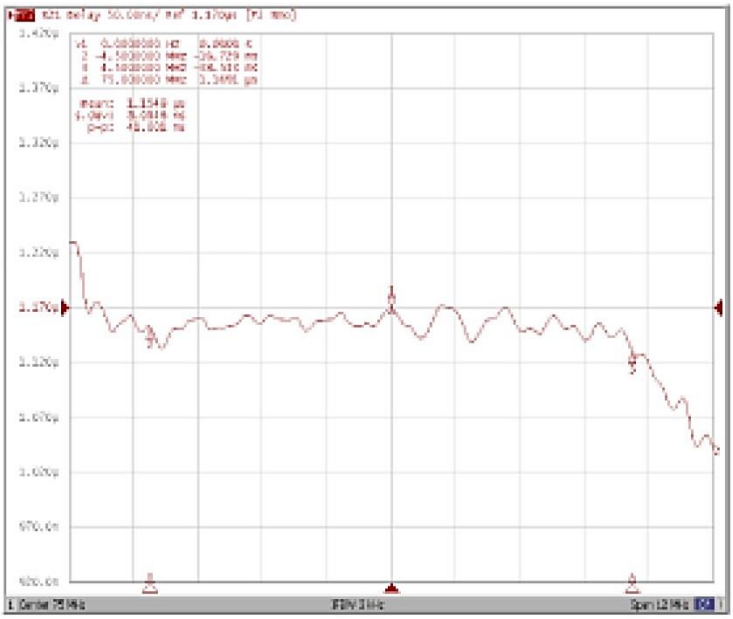
Frequency Response:

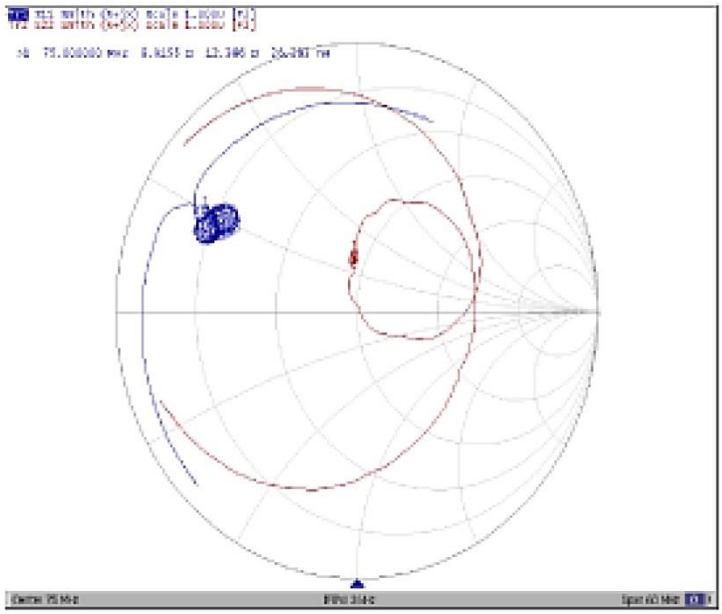
Ripple Variation Fo±4.5MHz



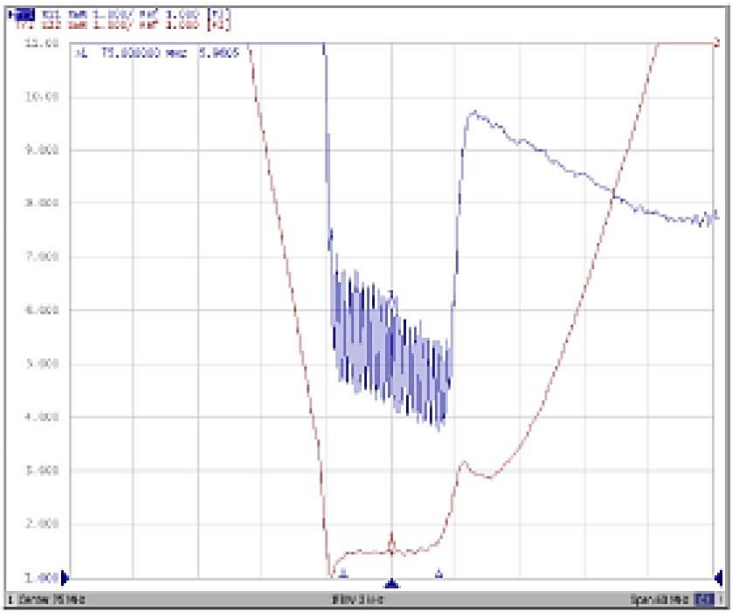
Group Delay Variation Fo±4.5MHz



Smith Chart



SWR



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