ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

153.6 MHz IF Saw Filter

Part Number: AM153S717

ISO 9001 REGISTERED FIRM

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	153.4	153.6	153.8
Insertion Loss at Fo	dB	-	9.0	11.0
Phase Linearity at Fo ± 10.0 MHz	rms	-	3.0	5.0
Group Delay Variation at Fo ± 10.0 MHz	nsec	-	70	100
Absolute Delay at Fo	usec	-	0.65	-
Amplitude Ripple Variation at Fo ± 10.0 MHz	dB_{p-p}	-	0.65	1.00
Bandwidth at -1.0 dB	MHz	20.0	23.5	-
Bandwidth at -3.0 dB	MHz	-	24.9	-
Bandwidth at -40.0 dB	MHz	-	31.7	33.0
VSWR	-	-	-	2.0:1
Coefficient Temperature	ppm/°C	-	-86	-
Relative Attenuation:				
1.0 ~ 80.0 MHz	dB	50	70	-
80.0 ~ 105.0 MHz	dB	56	63	-
200.0 ~ 230.0 MHz	dB	56	63	-
230.0 ~ 1000.0 MHz	dB	40	70	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-40	-	+85
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	7.0 x 5.0 x 1.8 mm S1			

70 Outwater Lane Phone: (973) 772-4242
Garfield, NJ 07026 Fax : (973) 772-4646
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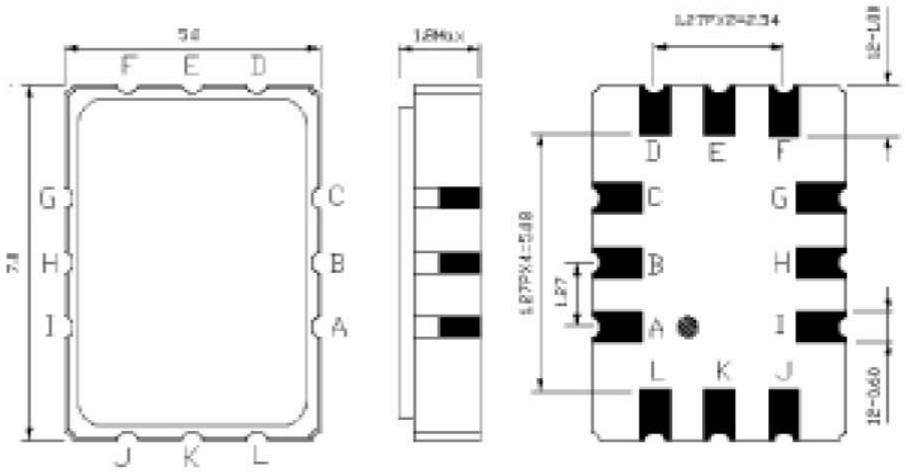
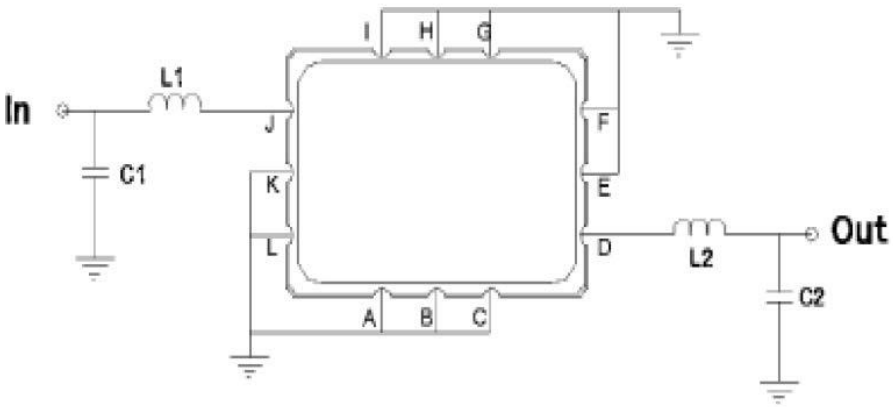
Outline Drawing:



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

Testing Environment:



Test Fixture & Values	
Input	L1=39 nH , C1=36 pF
Output	L2=47 nH , C2=33 pF
Source/Load Impedance	50 Ω

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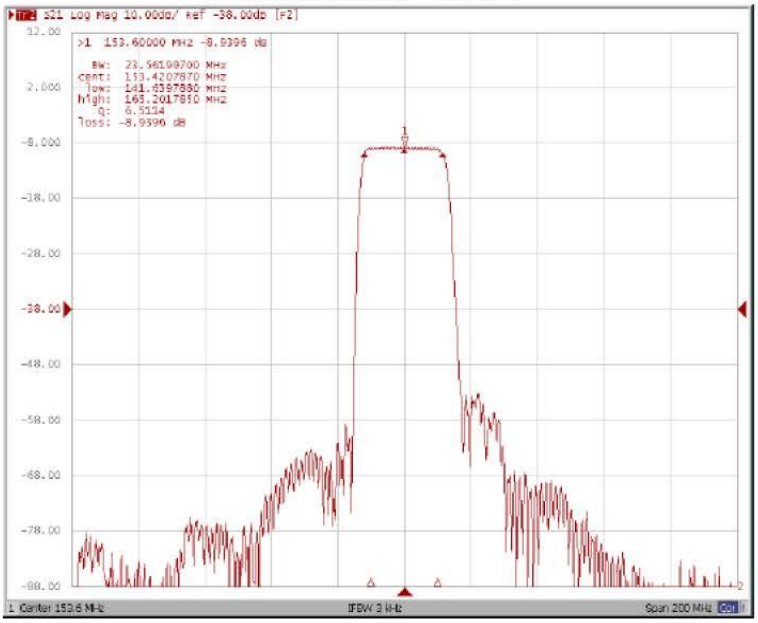
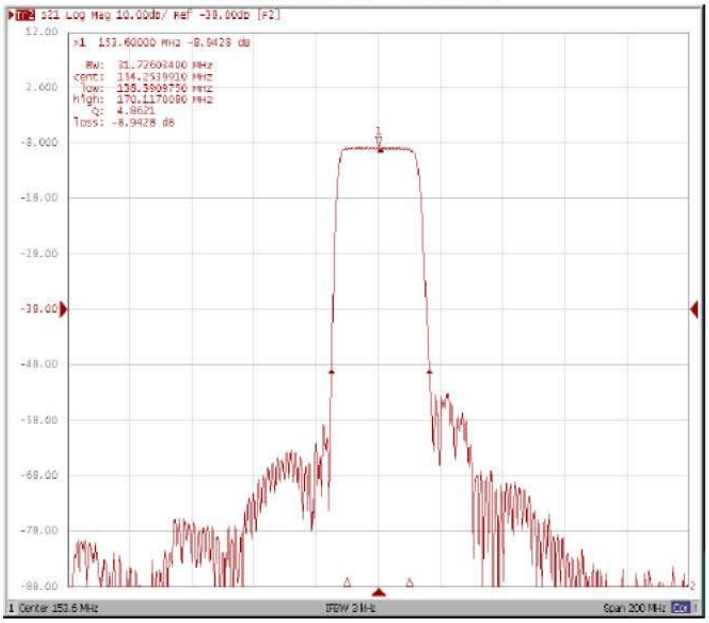
Frequency Response:

Bandwidth at –1.0 dB

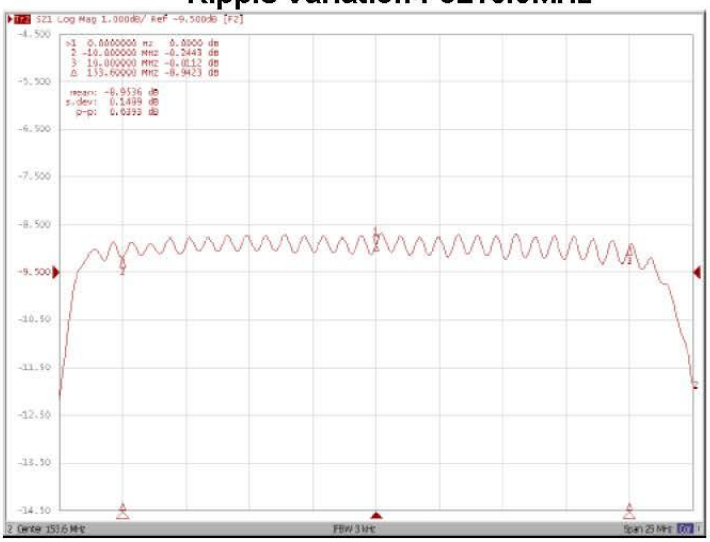


Bandwidth at –40.0 dB



Wide-Band

Ripple Variation Fo±10.0MHz



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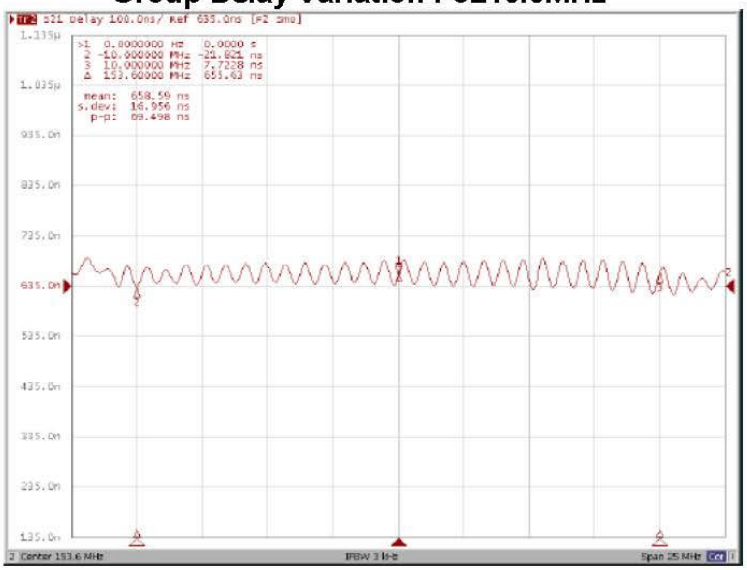
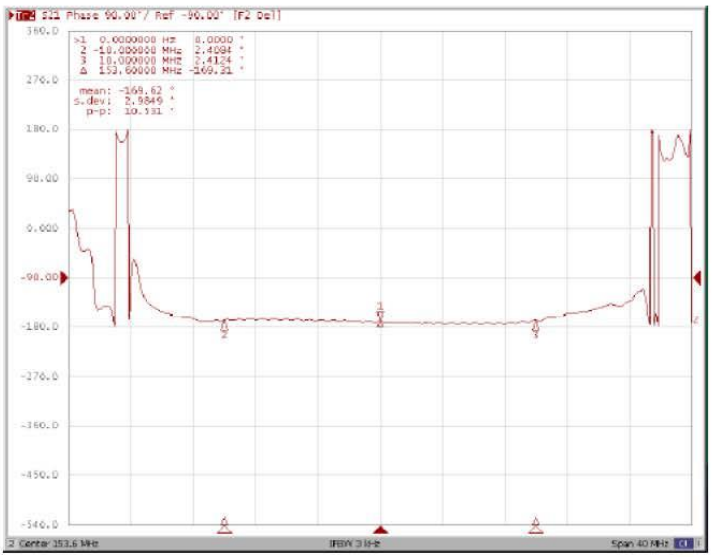
Frequency Response:

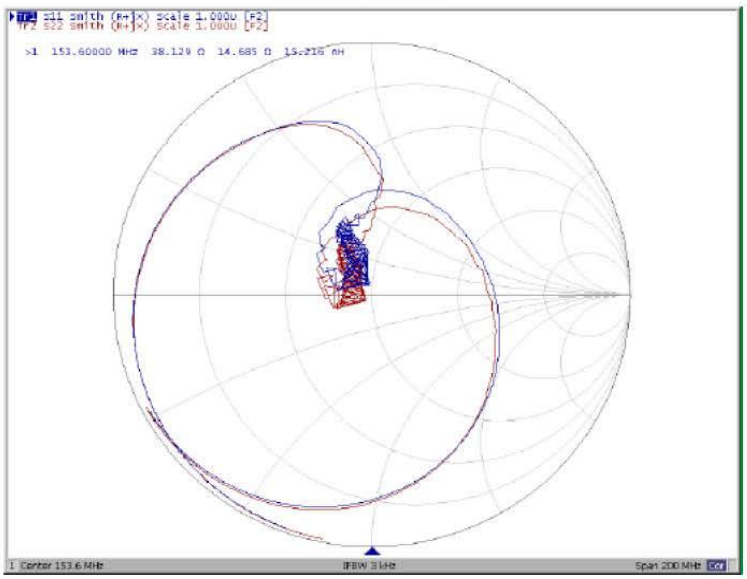
Group Delay Variation Fo±10.0MHz



Phase Linearity Fo±10.0MHz



Smith Chart



SWR

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