ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

45 MHz IF Saw Filter 10 MHz Bandwidth

Part Number: AM45S746

ISO 9001 REGISTERED FIRM

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	44.9	45.0	45.1
Insertion Loss at Fo	dB	-	24.0	26.0
Group Delay Variation at Fo ± 4.42 MHz	nsec	-	45	100
Absolute Delay at Fo	µsec	-	2.48	-
Passband Ripple Variation at Fo ± 4.42 MHz	dB	-	0.4	0.8
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	9.70	10.0	-
Bandwidth at -3.0 dB	MHz	-	10.40	-
Bandwidth at -40.0 dB	MHz	-	11.9	-
Ultimate Rejection	dB	48	50	-

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+80
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	20.0 x 9.8 x 1.8 mm D1			

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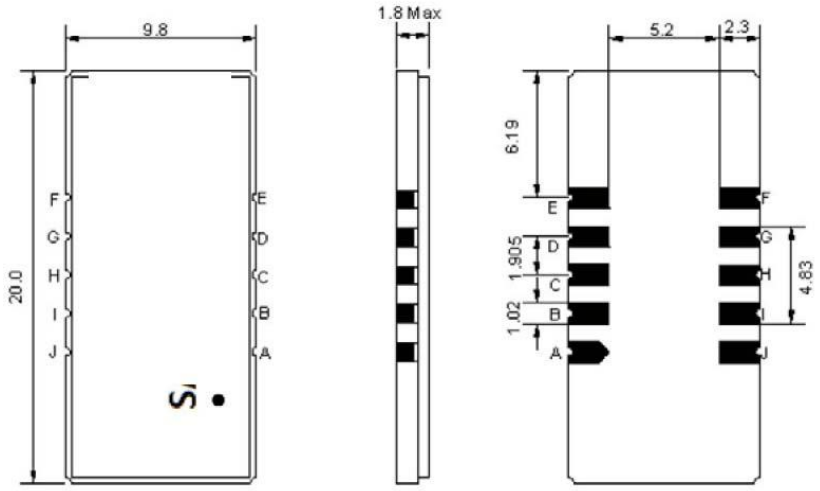
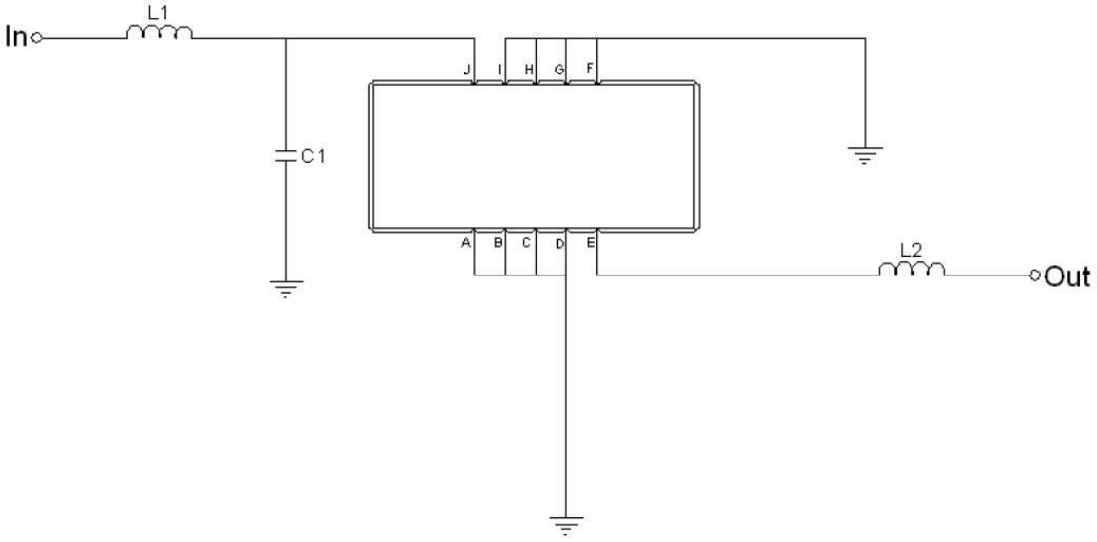
Outline Drawing:



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

Testing Environment:



Test Fixture & Values	
Input	L1 = 220 nH , C1 = 30 pF
Output	L2 = 220 nH
Source/Load Impedance	50 Ω

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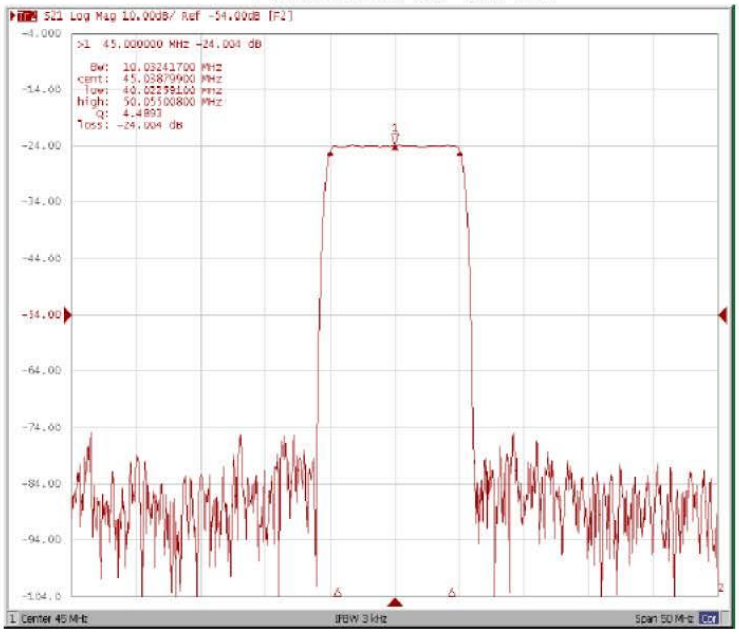
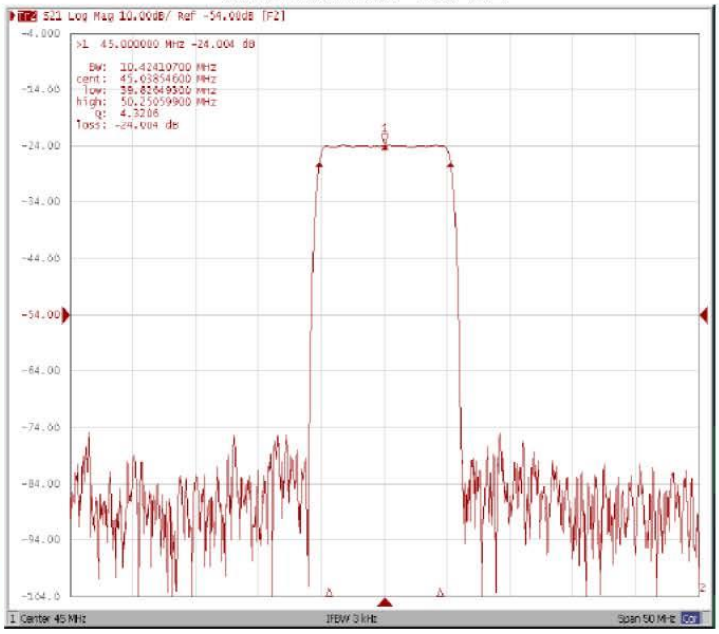
Frequency Response:

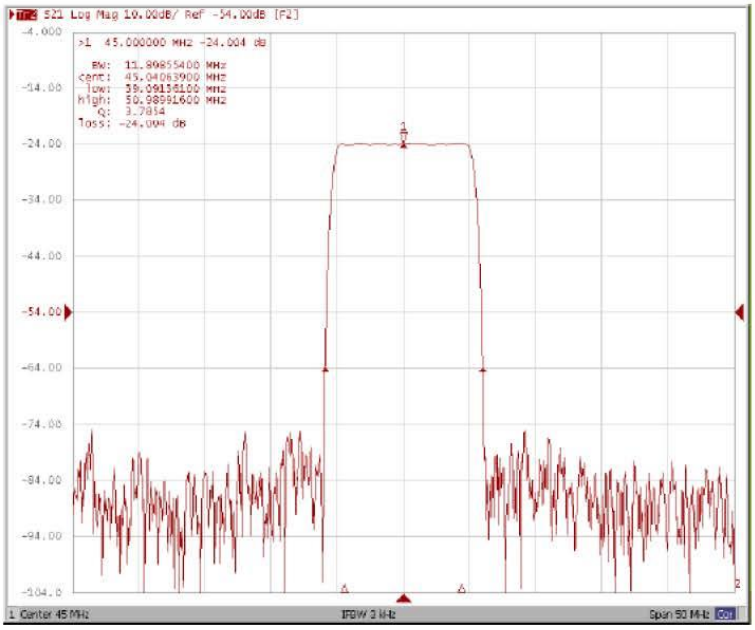
Bandwidth at –1.0 dB



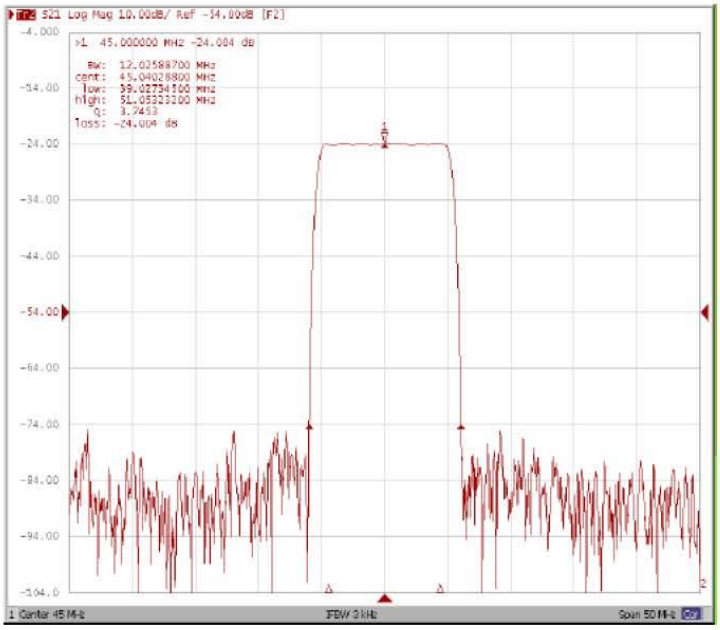
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



Bandwidth at –50.0 dB



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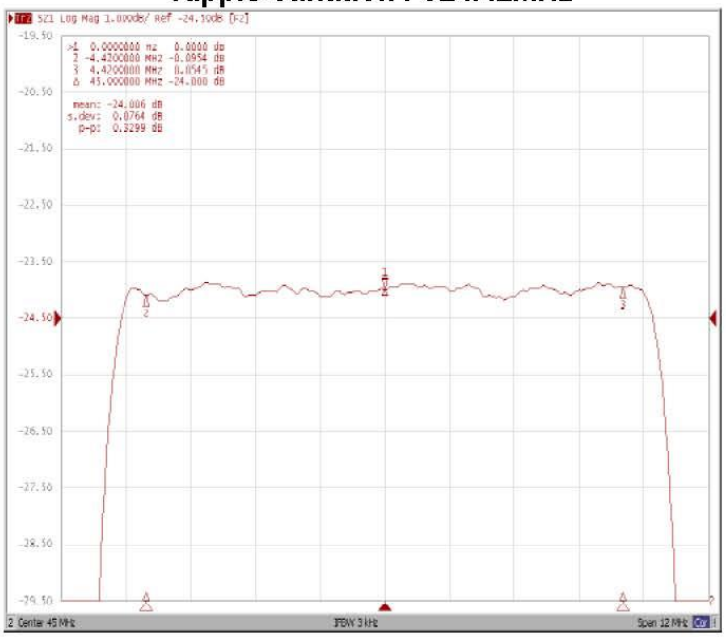
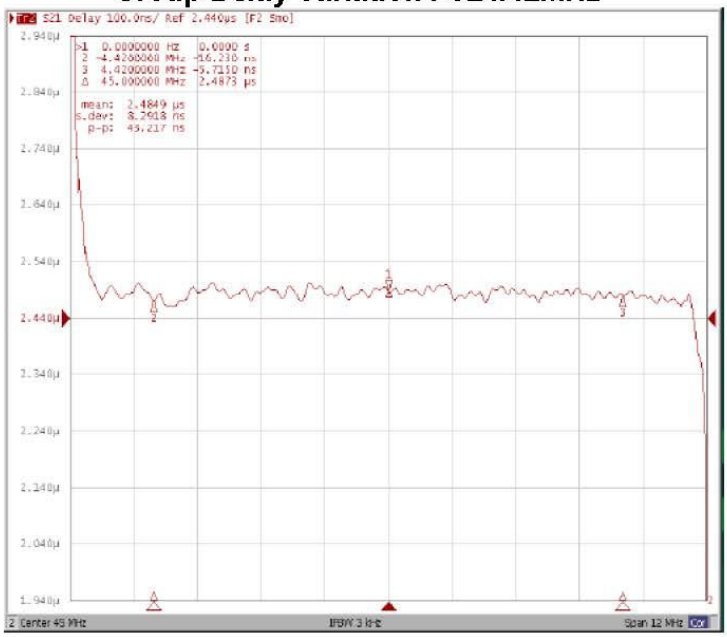
Frequency Response:

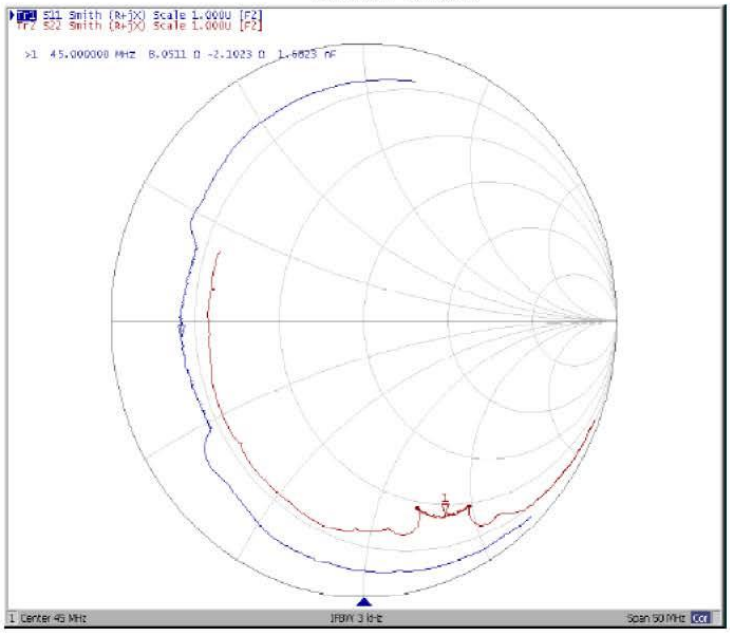
Ripple Variation Fo±4.42MHz



Group Delay Variation Fo±4.42MHz



Smith Chart



SWR

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