



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

36 MHz IF Saw Filter for Digital TV

Part Number: AM36S759



Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	36.07	36.125	36.18
Insertion Loss at Fo	dB	18.3	20.3	22.3
Group Delay Variation (32.13 to 40.13 MHz)	nsec	-	40	-
Bandwidth at -1.0 dB	MHz	7.0	7.5	-
Bandwidth at -3.0 dB	MHz	7.8	8.0	-
Bandwidth at -30.0 dB	MHz	-	9.4	9.6
Relative Attenuation: (Ref.; 36.125 MHz)				
31.25 MHz	dB	34	48	-
32.13 MHz	dB	1.6	3.1	4.6
32.32 MHz	dB	-0.3	1.2	2.7
39.93 MHz	dB	-0.4	1.1	2.6
40.13 MHz	dB	1.7	3.2	4.7
47.25 MHz	dB	41.0	47.0	-
Lower Sidelobe				
From 25.0 to 29.5 MHz	dB	35.0	40.0	-
From 29.5 to 31.25 MHz	dB	31.0	37.0	-
Upper Sidelobe				
From 40.9 to 43.5 MHz	dB	31.0	37.0	-
From 43.5 to 50.0 MHz	dB	35.0	42.0	-
Reflected Wave Signal Suppression	dB	42.0	52.0	-
Feedthrough Signal Suppression	dB	50.0	56.0	-
Impedance at 36.125 MHz Input Impedance Output Impedance	k Ω pF k Ω pF	--	3.9 14.1 2.4 4.4	--
Temperature Coefficient	ppm/°C	-	-72	-



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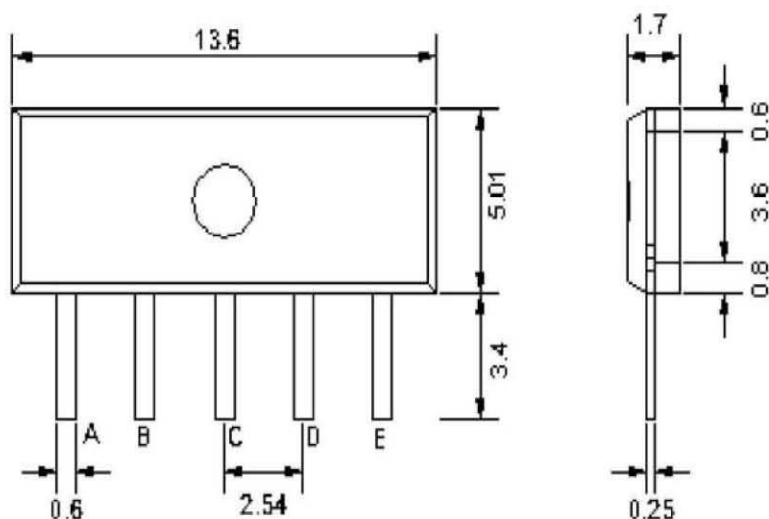
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Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-25	-	+65
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	12 V DC	-
Maximum Input Power	dBm	-	-	-
Source Impedance (Single Ended) ₁	Ω	-	-	-
Load Impedance (Single Ended) ₁	Ω	-	-	-
Package Size	mm	13.6 x 1.7 x 5.01		

Outline Drawing:



Pin Description	
A	Input
B	Input - Ground
C	Chip carrier - Ground
D	Output
E	Output



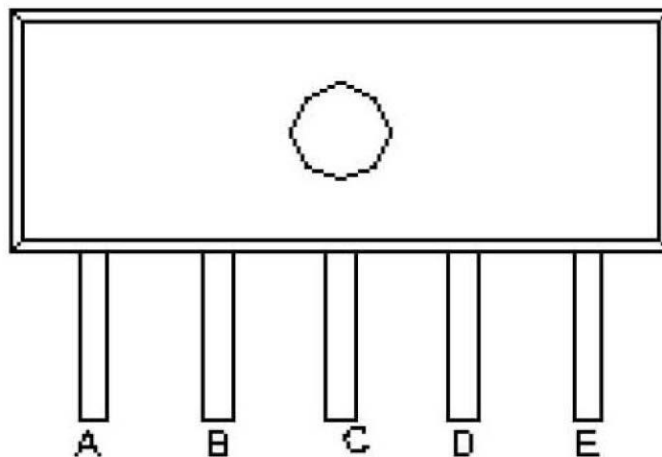
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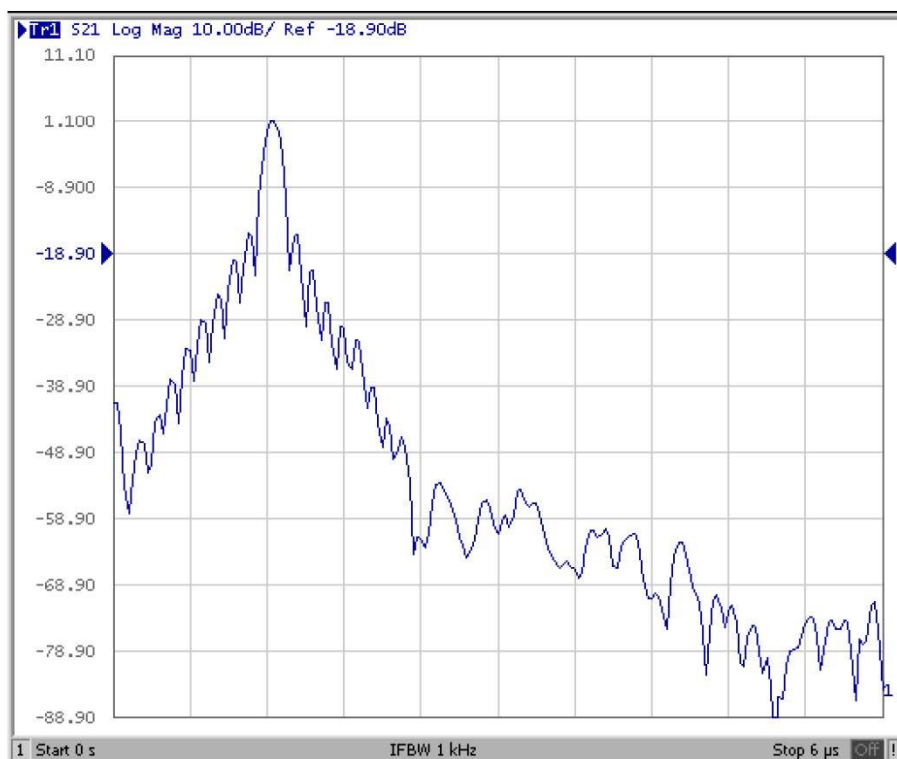


Testing Environment:



Source Impedance = 50Ω
Load Impedance = $2k\Omega / 3pF$

Frequency Response:





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Frequency Response:

