

Specifications



FEATURES

Netcom's 5591 is a digitally tunable filter covering the frequency range of 400 to 600MHz.

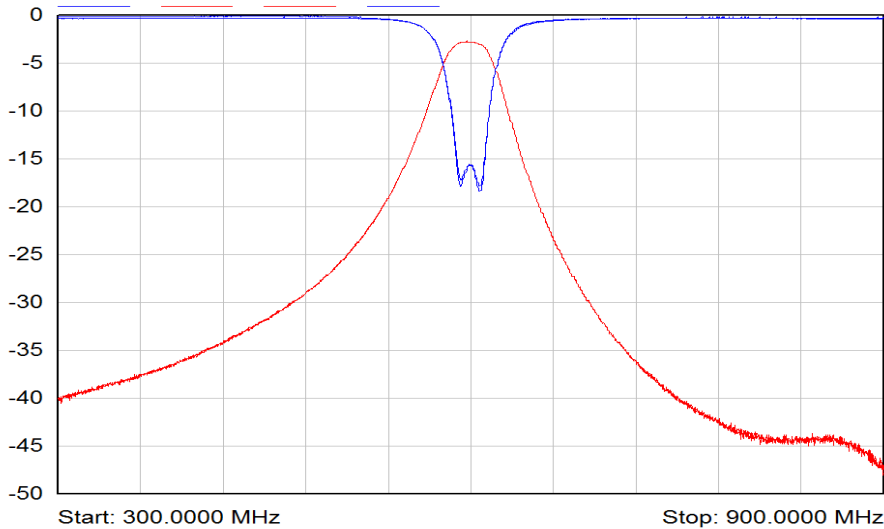
The filter has been designed using new commercially available high voltage drivers and a new generation CPLD, which allows for improved performance and reduced cost while at the same time providing increased functionality. A control interference is provided to accept either parallel data and strobe or serial data, clock and strobe. The filter incorporates high voltage totem-pole drivers for the PIN diode bias voltage to minimize current draw from the 100 VDC supply.

The following table shows the typical performance of the filter at 7% bandwidth. Options are available upon request for different bandwidth and frequency range.

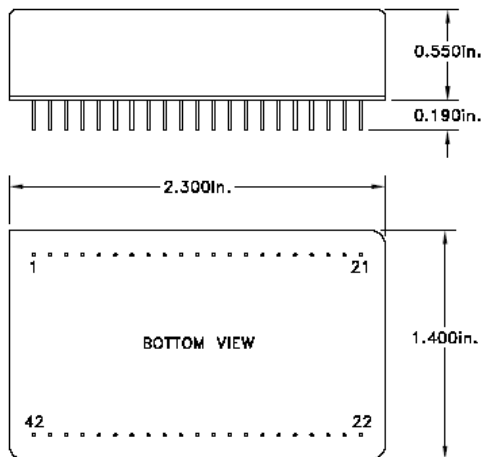
Frequency Range	400 to 600 MHz
Input / Output Impedance	50 Ω
RF Power Rating	
Inband, Continuous / Peak	1 W / 2 W
Out-of-Band, Max	5 W
Filter Bandwidth 3dB	7%
Selectivity	
Shape Factor 30/3dB	7.0
Insertion Loss (typical)	2.8 dB
In / Out Return Loss	10 dB
Tuning Channels	250
Switching Speed, 90% RF Power	30 μ sec
DC Inputs	
+5 Volts (\pm 0.5 Volts)	250 mA
+100 Volts (-7, +25 Volts)	0.2 mA
Temperature Range	-40 to +85°C
Control Interface	- Selectable 8 bit Parallel or Serial - TTL and CMOS Compatible
Power Save Mode	Programmable
Dimensions	2.30 x 1.40 x 0.55 inches

Performance

Model 5591 - 400 to 600 MHz, 7% BW at 7 MHz



Mechanical



Ordering Information

Model Number	-	Bandwidth	-	Option
5591		3		Leave blank for selectable interface S: Serial Interface Only P: Parallel Interface Only
		5		
		7		

* Standard bandwidths listed. Other bandwidths available upon request.



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