

PROGRAMMABLE FILTER

NETCOM Model 5556



Features

Netcom's 5556 is a programmable filter covering the frequency range of 1.5 to 4 MHz.

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 interface 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.

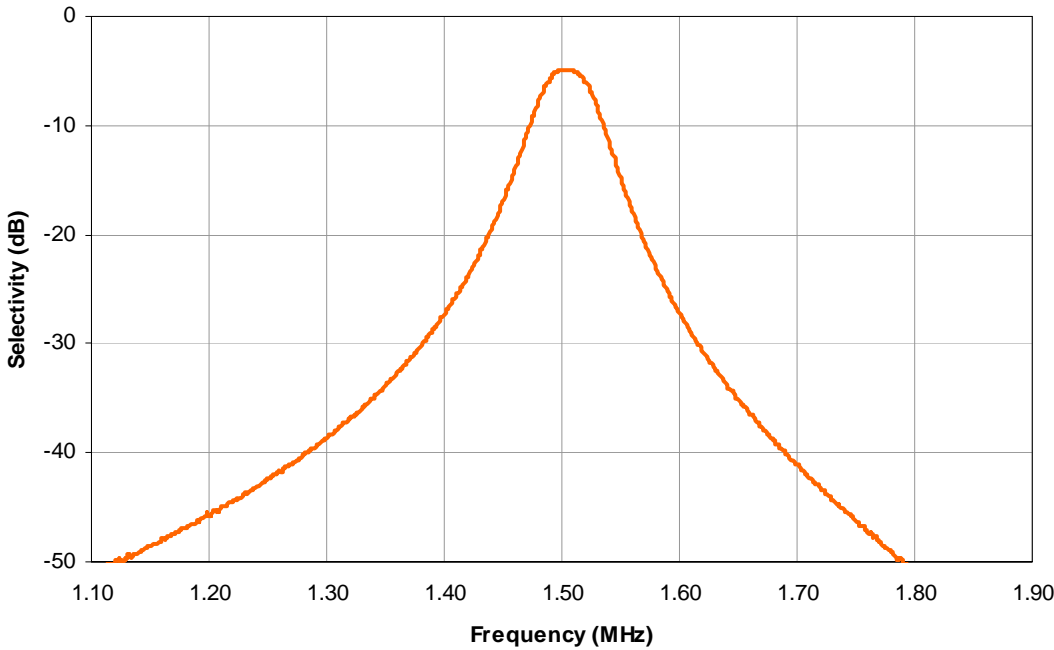
The following table shows the typical performance of the filter at different 3 dB bandwidths. Options are available upon request for different bandwidth and frequency range.

Specifications			
Frequency Range	1.5 to 4 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	3%	5%	7%
Selectivity			
Shape Factor 30/3dB	6.0	5.8	5.7
Insertion Loss	3.8 dB	3.1 dB	2.5 dB
Tuning Channels	250		
Switching Speed, 90% RF Power	100 μ sec		
DC Inputs			
+5 Volts (± 0.5 Volts)	250 mA		
+100 Volts (-7, +25 Volts)	0.2 mA		
Temperature Range	-40 to +85 $^{\circ}$ C		
Control Interface	8 bit Parallel or Serial, Selectable TTL and CMOS Compatible		
Power Save Mode	Programmable		

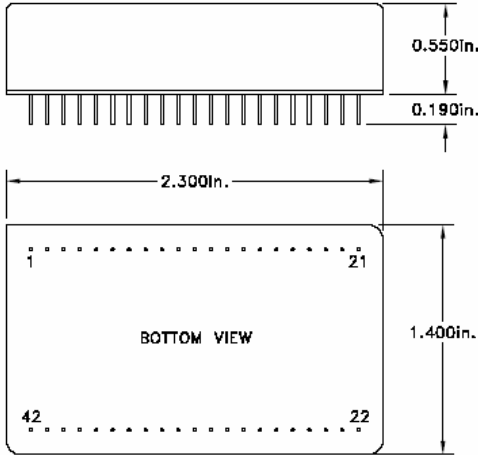
PROGRAMMABLE FILTER

Performance

Model 5556 - 1.5 to 4 MHz, 3% BW at 1.5 MHz



Mechanical



Ordering Information

Model Number	-	Bandwidth	-	Option
5556		3		A: Serial Interface
		5		
		7		