

Specifications



FEATURES

Netcom's 5558 is a digitally tunable filter covering the frequency range of 10 to 30MHz.

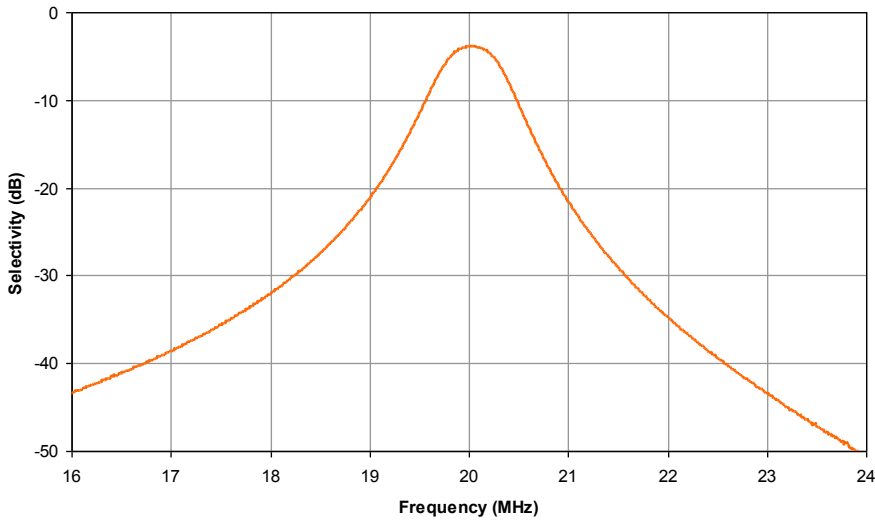
The filter has been designed using new commercially available high voltage drivers and a new generation CPLD, which allows for improved performance and reduced cost while at the same time providing increased functionality. A control interface is provided to accept either parallel data and strobe or serial 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 bandwidths. Options are available upon request for different bandwidth and frequency range.

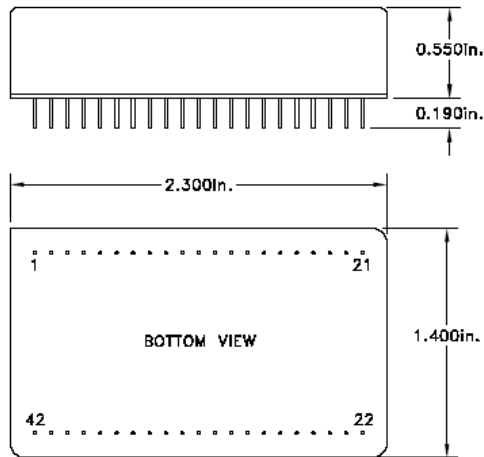
Frequency Range	10 to 30 MHz		
Input / Output Impedance	50 Ω		
RF Power Rating			
Inband, Continuous / Peak	1 W / 2 W		
Out-of-Band, Max	5 W		
Filter Bandwidth 3dB	3%	5%	7%
Selectivity			
Shape Factor 30/3dB	6.2	5.6	5.3
Insertion Loss	5.5 dB	3.1 dB	2.4 dB
Tuning Channels	250		
Switching Speed, 90% RF Power	90 μ sec		
DC Inputs			
+5 Volts (\pm 0.5 Volts)	250 mA		
+100 Volts (-7, +25 Volts)	0.5mA		
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 5558 - 10 to 30 MHz, 3% BW at 20 MHz



Mechanical



Ordering Information

Model Number	-	Bandwidth	-	Option
5558		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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