

Specifications



FEATURES

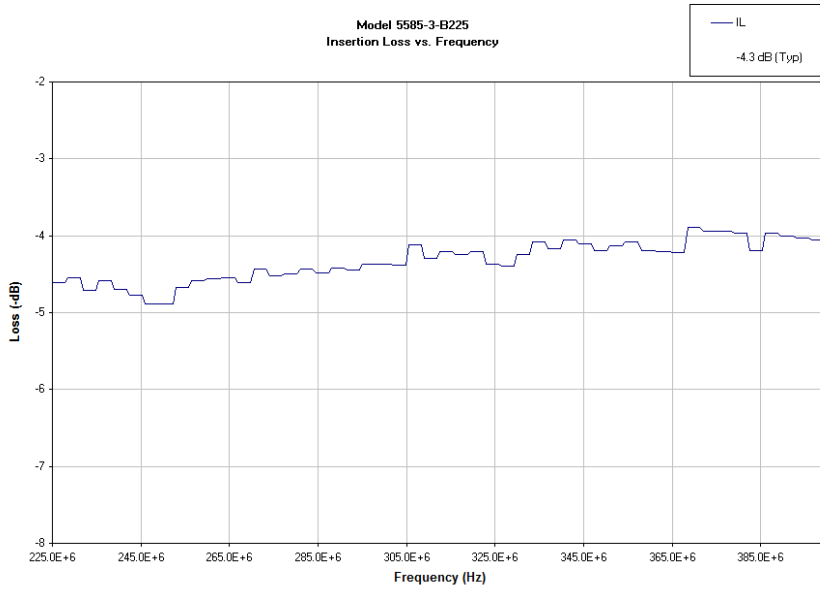
Netcom's 5585-3-B225 is a Digitally tunable filter covering the frequency range of 225 to 400MHz.

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.

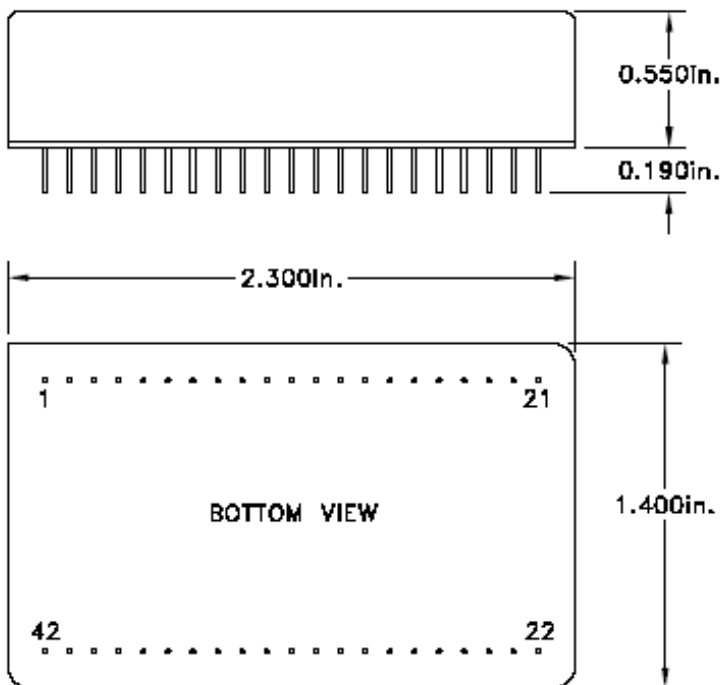
The following table shows the typical performance of the filter at a 3dB bandwidth. Options are available upon request for different bandwidth and frequency range.

Frequency Range	225MHz to 400MHz
Input / Output Impedance	50 Ω
RF Power Rating	
Inband, Continuous / Peak	1 W / 2 W
Out-of-Band, Max	5 W
In-Band Power Handling	Up to 1.25W
Filter Bandwidth 3dB	3 %
Selectivity	
Shape Factor 30/3dB	5.8
Insertion Loss (Typical)	4.6 dB
Tuning Channels	250
Switching Speed, 90% RF Power	$\leq 15 \mu\text{sec}$
DC Inputs	
+5 Volts (± 0.5 Volts)	250 mA
+100 Volts (-7, +25 Volts)	1.0 mA
Temperature Range	-40 to +85 $^{\circ}\text{C}$
IP3	+42dBm
Control Interface	- Selectable 8 bit Parallel or Serial - TTL and CMOS Compatible
Power Save Mode	Programmable
Dimensions	2.3 x 1.4 x .55 inches

Performance



Mechanical



* Standard bandwidths listed. Other bandwidths available upon request.
 * Selectable interface default mode: Parallel Interface



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