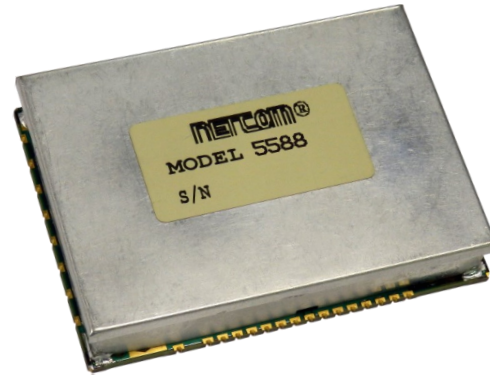


Specifications



FEATURES

Netcom's 5588 is a digitally tunable filter covering the frequency range of 30 to 520MHz.

The filter has been designed using three bands of tunable filters from Netcom's proven 5500 Series. This tri-band filter is offered in a smaller integrated SMT package to support applications where compact design, power requirements and board layout flexibility is important. It meets the vibration and shock requirements of systems used in ground-mobile and airborne environments.

Commercially available high voltage drivers and a new generation CPLD have been used to achieve improved performance and reduced cost while at the same time providing increased functionality. 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 3dB bandwidths. Options are available upon request for different bandwidth and frequency range.

Frequency Range	30 to 520 MHz		
Input / Output Impedance	50 Ω		
RF Power Rating			
Inband, Continuous / Peak	1 W		
Out-of-Band, Max	5 W		
Filter Bandwidth, 3 dB	3 %	5 %	7 %
Selectivity, Shape Factor 30/3 dB	< 6		
Insertion Loss (Avg)	6.3 dB	4.1 dB	3.1 dB
Inband Third Order Intercept Point, Min	+40 dBm		
Tuning Channels	100 kHz Tuning		
Switching Speed, 90% RF Power	50 μ sec		
DC Inputs			
+5 Volts (\pm 0.5 Volts)	290 mA		
+100 Volts (-7, +25 Volts)	1.0 mA		
Temperature Range	-40 to +85°C		
Control Interface	- Selectable 13 bit Parallel or Serial - TTL and CMOS Compatible		
Power Save Mode	Programmable		
Dimensions	2.80 x 2.00 x 0.50 inches		

