

Specifications



FEATURES

Netcom's 5587 is a digitally tunable filter covering the frequency range of 90 to 520MHz.

The filter has been designed using two bands of tunable filters from Netcom's proven 5500 Series. This dual-band filter is offered in a smaller integrated SMT package to support applications where compact design and board layout flexibility is important.

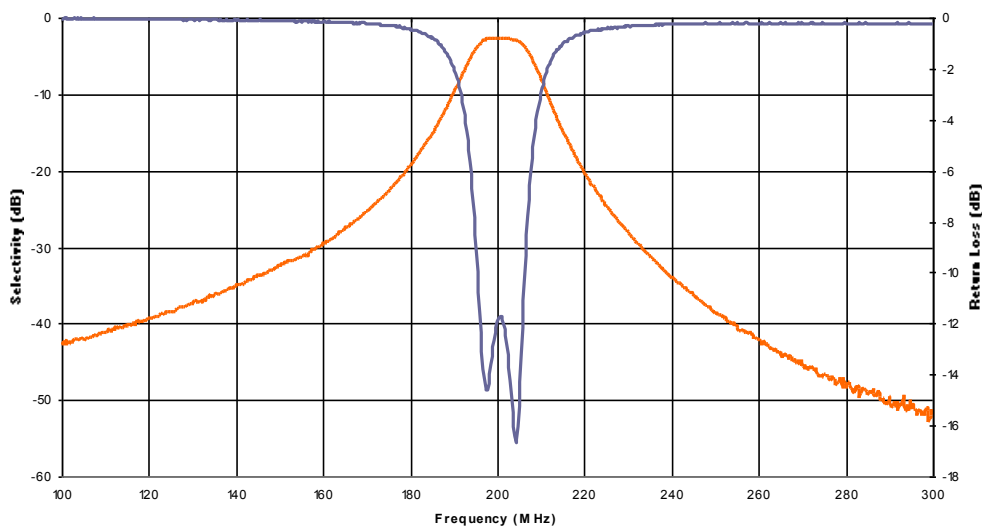
It uses new commercially available high voltage drivers and a new generation CPLD, which allows for improved performance and reduced cost while at the same time providing increased functionality. The filter incorporates high voltage totem-pole drivers for the PIN diode bias voltage to minimize current 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.

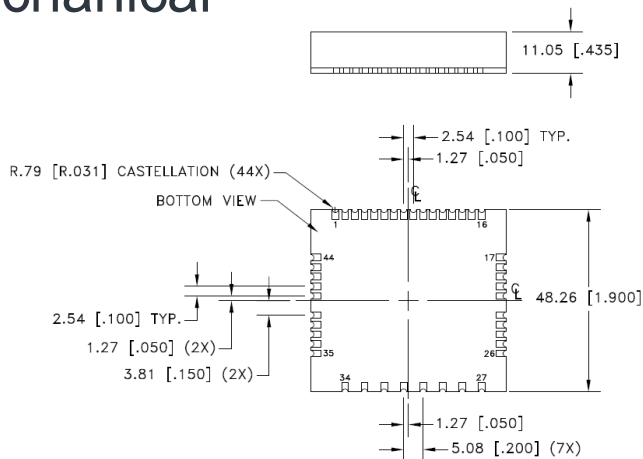
Frequency Range	90 to 520 MHz		
Input / Output Impedance	50 Ω		
RF Power Rating			
Inband, Continuous / Peak	1 W		
Out-of-Band, Max	5 W		
Filter Bandwidth, 3 dB	3 %	5 %	7 %
Selectivity, Shape Factor 30/3 dB	6.0	5.9	5.8
Insertion Loss (Avg)	6.3 dB	4.1 dB	3.3 dB
Inband Third Order Intercept Point, Min	+40 dBm		
Tuning Channels	100 kHz Tuning		
Switching Speed, 90% RF Power	30 μ sec		
DC Inputs			
+5 Volts (\pm 0.5 Volts)	275 mA		
+100 Volts (-7, +25 Volts)	0.3 mA		
Temperature Range	-40 to +85°C		
Control Interface	- Selectable 13 bit Parallel or Serial - TTL and CMOS Compatible		
Power Save Mode	Programmable		
Dimensions	1.90 x 1.90 x 0.43 inches		

Performance

Model 5587 - 90 to 520 MHz, 7% BW at 200 MHz



Mechanical



NOTES:
 1. TOLERANCES ± 0.25 [0.010] UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS ARE mm [inches].

Ordering Information

Model Number	-	Bandwidth	-	Option
5587		3		Leave blank for selectable interface S: Serial Interface Only P: Parallel Interface Only
		5		
		7		

*Standard bandwidths listed. Other bandwidths are available upon request.

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