

Specifications

FEATURES

Netcom's 5594 is a digitally tunable filter covering the frequency range of 200 to 700MHz.

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.

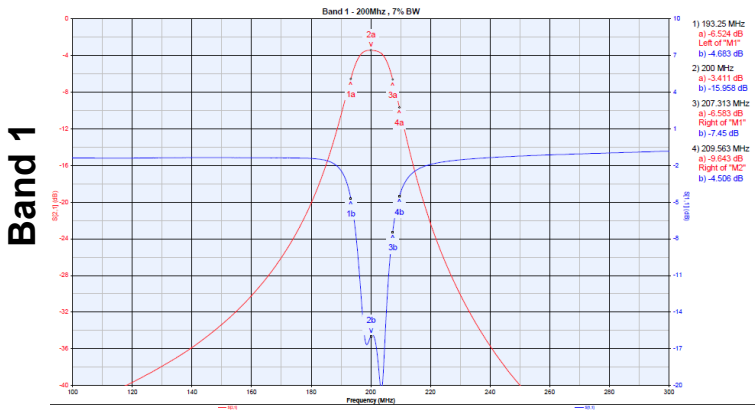
The following table shows the typical performance of the filter at 3 dB bandwidths. Options are available upon request for different bandwidths, insertion loss, and frequency bands.



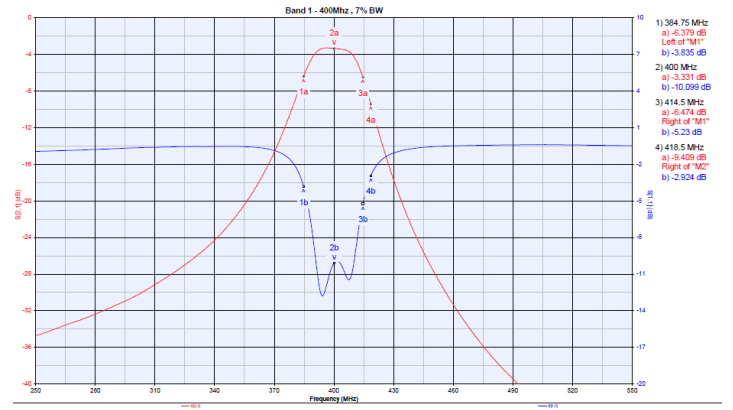
Frequency Range	200 to 700 MHz		
Input / Output Impedance	50 Ω		
RF Power Rating			
Inband, Continuous / Peak	1 W		
Out-of-Band, Max	5 W		
Filter Bandwidth, 3 dB	3 %	5 %	7 %
Selectivity, Shape Factor 30/3 dB	< 7.0		
Insertion Loss (Avg)	< 4.5 dB		
Inband Third Order Intercept Point, Min	+40 dBm		
Tuning Channels	100KHz Tuning (Option to customize is available)		
Switching Speed, 90% RF Power	20 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	2.80 x 2.00 x 0.50 inches		

Performance

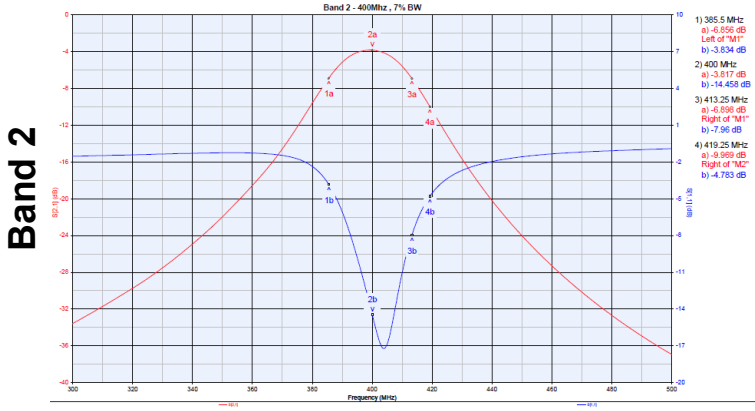
200 MHz, 7% BW



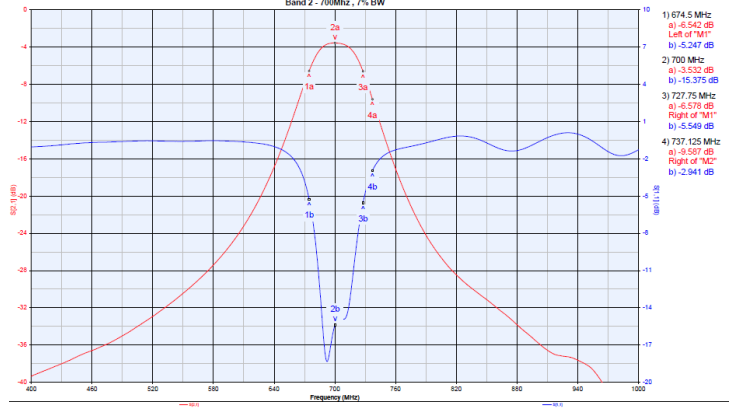
400 MHz, 7% BW



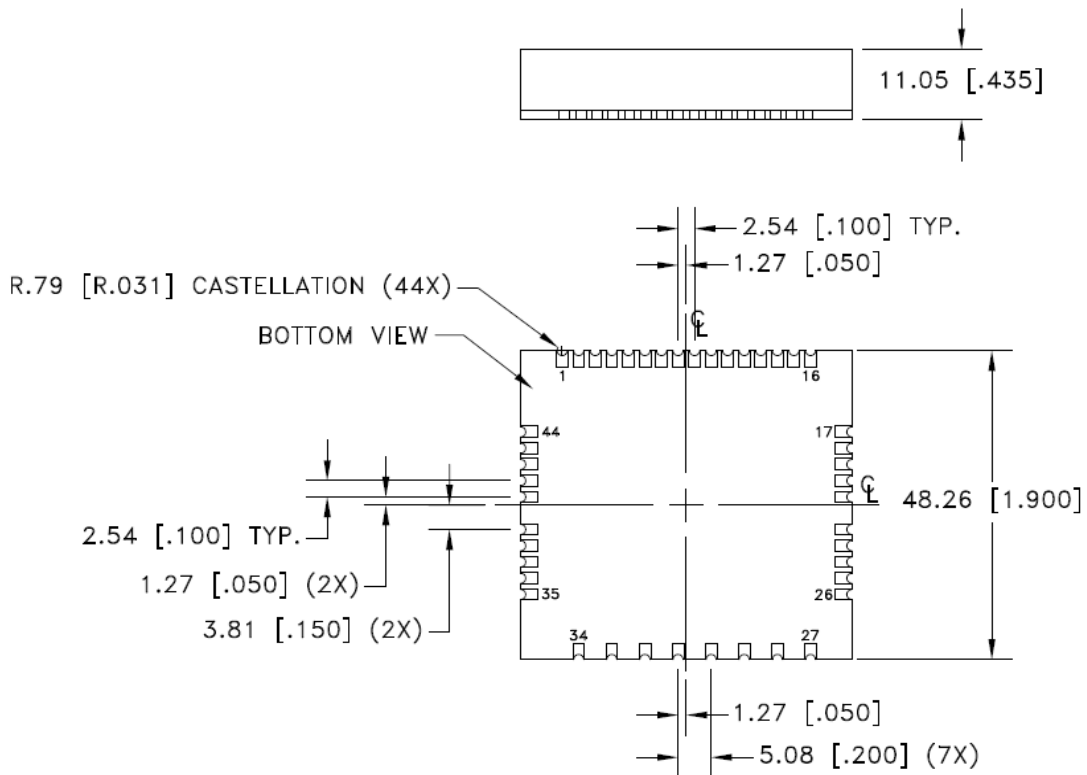
400 MHz, 7% BW



700 MHz, 7% BW



Mechanical



NOTES:

1. TOLERANCES ± 0.25 [.010] UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE mm [inches].

Ordering Information

Model Number	-	Bandwidth	-	Option
5594		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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