

Specifications



FEATURES

Netcom's 5583 is a digitally tunable filter covering the frequency range of 30 to 90MHz.

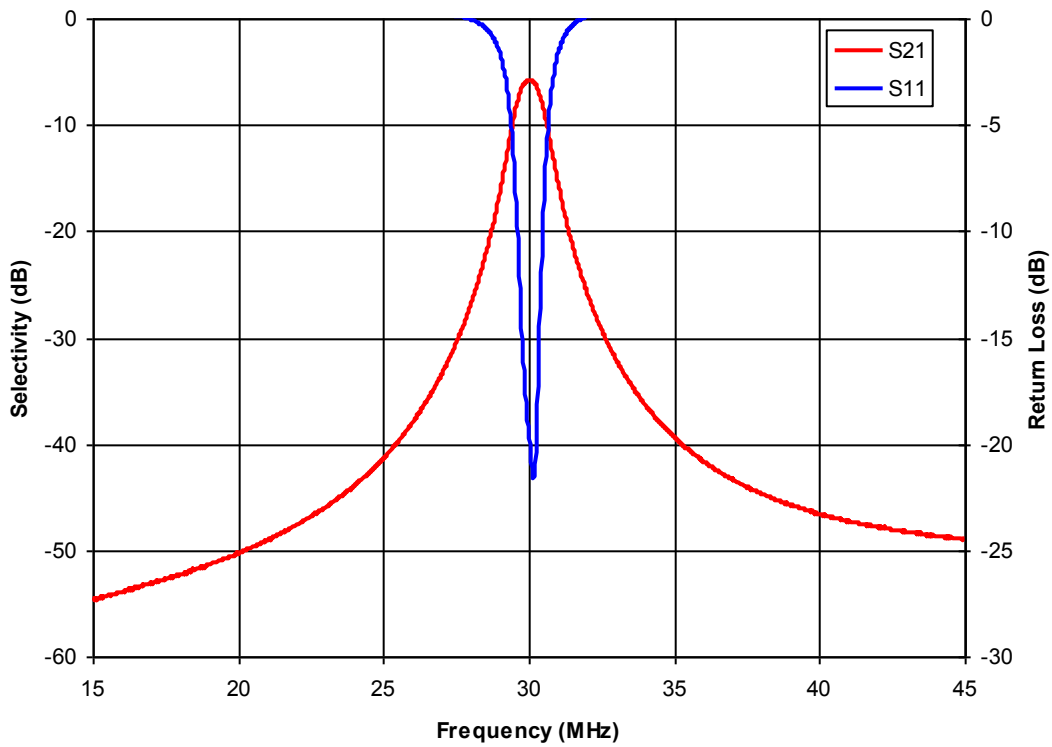
The filter has been designed using new commercially available high voltage drivers and a new generation CPLD, which allows for improved performance and reduced cost while at the same time providing increased functionality. A control interference is provided to accept either parallel data and strobe or 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 different 3dB bandwidths. Options are available upon request for different bandwidth and frequency range.

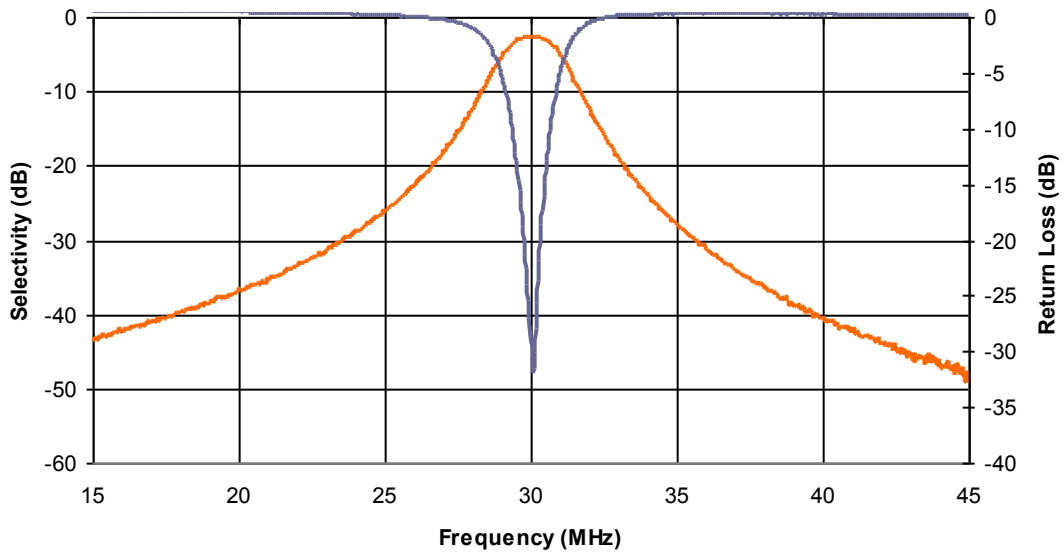
| | | | |
|-------------------------------|--------------------------------------------------------------------|--------|--------|
| Frequency Range | 30 to 90 MHz | | |
| Input / Output Impedance | 50 Ω | | |
| RF Power Rating | | | |
| Inband, Continuous / Peak | 1 W / 2 W | | |
| Out-of-Band, Max | 5 W | | |
| Filter Bandwidth 3dB | 3% | 5% | 7% |
| Selectivity | | | |
| Shape Factor 30/3dB | 5.8 | 6.5 | 6.0 |
| Insertion Loss (typical) | 5.3 dB | 4.5 dB | 2.5 dB |
| Tuning Channels | 250 | | |
| Switching Speed, 90% RF Power | 30 μsec | | |
| DC Inputs | | | |
| +5 Volts (±0.5 Volts) | 250 mA | | |
| +100 Volts (-7, +25 Volts) | 0.2 mA | | |
| Temperature Range | -40 to +85°C | | |
| Control Interface | - 8 bit Parallel or Serial - Selectable TTL and CMOS Compatible | | |
| Power Save Mode | Programmable | | |
| Dimensions | 2.30 x 1.40 x 0.55 inches | | |

Performance at 30MHz and 90MHz

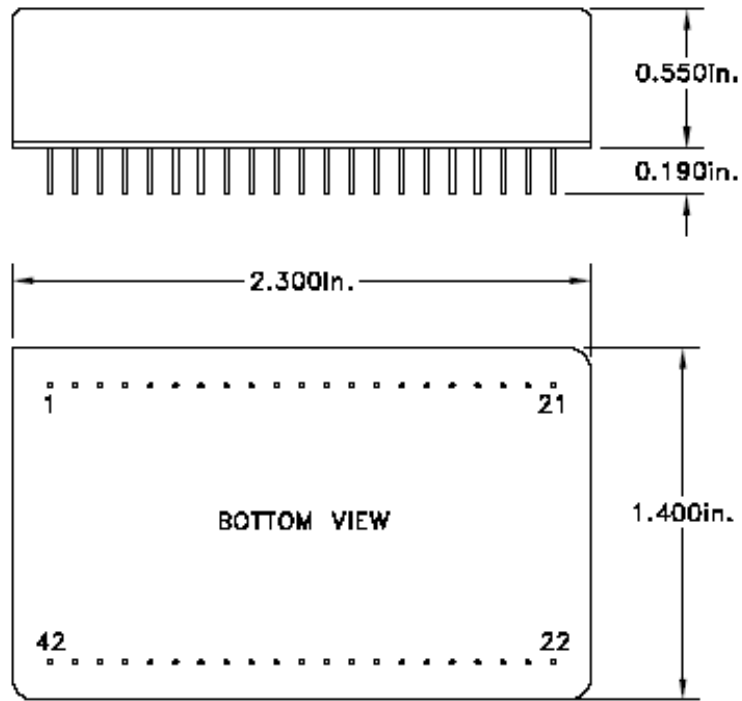
Model 5583 - 30 to 90 MHz, 3% BW at 30 MHz



Model 5583 - 30 to 90 MHz, 7% BW at 30 MHz



Mechanical



Ordering Information

| Model Number | - | Bandwidth | - | Option |
|--------------|---|-----------|---|------------------------------------------------------------------------------------------------|
| 5583 | | 3 | | Leave blank for selectable interface S: Serial Interface Only P: Parallel Interface Only |
| | | 5 | | |
| | | 7 | | |



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