



10 MHz BAND-PASS MONOLITHIC CRYSTAL FILTER

With 50-Ohm Ports

SPECIFICATIONS

- 50 Ohm in/out ports
- Bandwidth of 1 kHz (+/- 500 Hz) @ -3 dB
- Bandwidth of 1.2 kHz (+/- 600 Hz) @ -20 dB
- Bandwidth of 10 kHz (+/- 5 kHz) @ -60 dB
- Pass-band ripple 0.5 dB
- Insertion loss: 3 dB max
- Power input range: -80...+5 dBm
- Operating temperature: -40...+85 C
- Dimensions: 30x20x10 mm

Webpage:

<https://www.sv1afn.com/en/product-category-4/10-mhz-crystal-filter-1-1.html>

SV1AFN.COM

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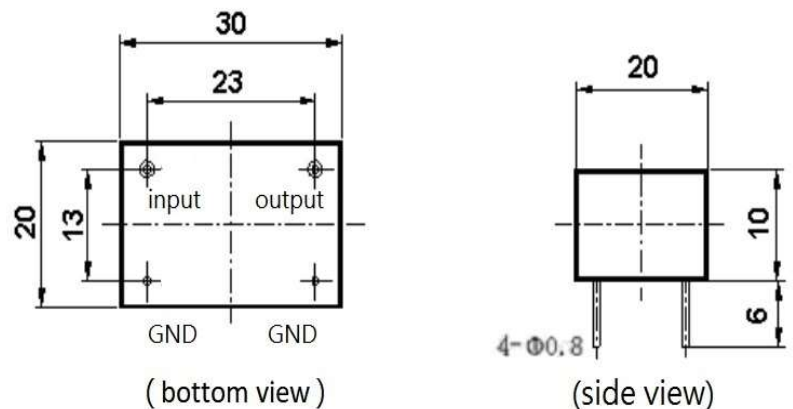
DESCRIPTION

This narrow 10 MHz band-pass filter (-3dB bandwidth of 1 kHz) can be used mainly for a lab's reference frequency signal clean-up. It greatly improves phase noise. It can also be used to filter out harmonics of square wave oscillators and generators for converting their waveform to sine, for isolation improvement, even for selecting the 10 MHz time signals in receiver front ends or IF circuits. Placing two of them in series, it can further narrow the bandwidth.

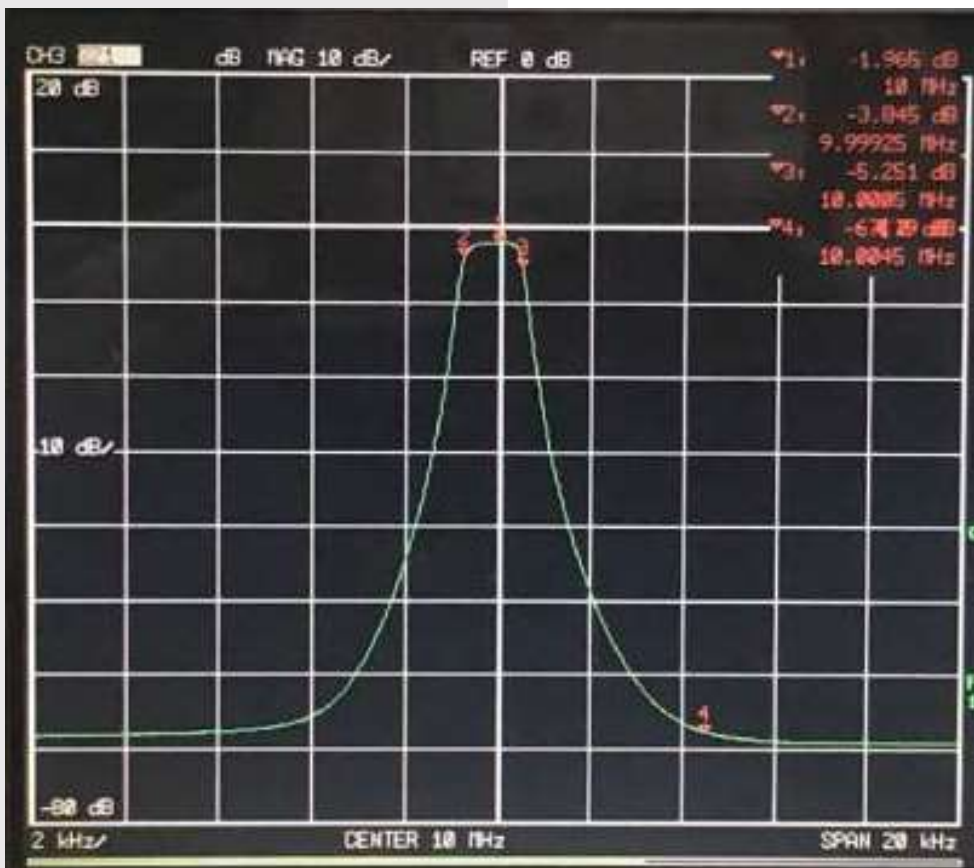
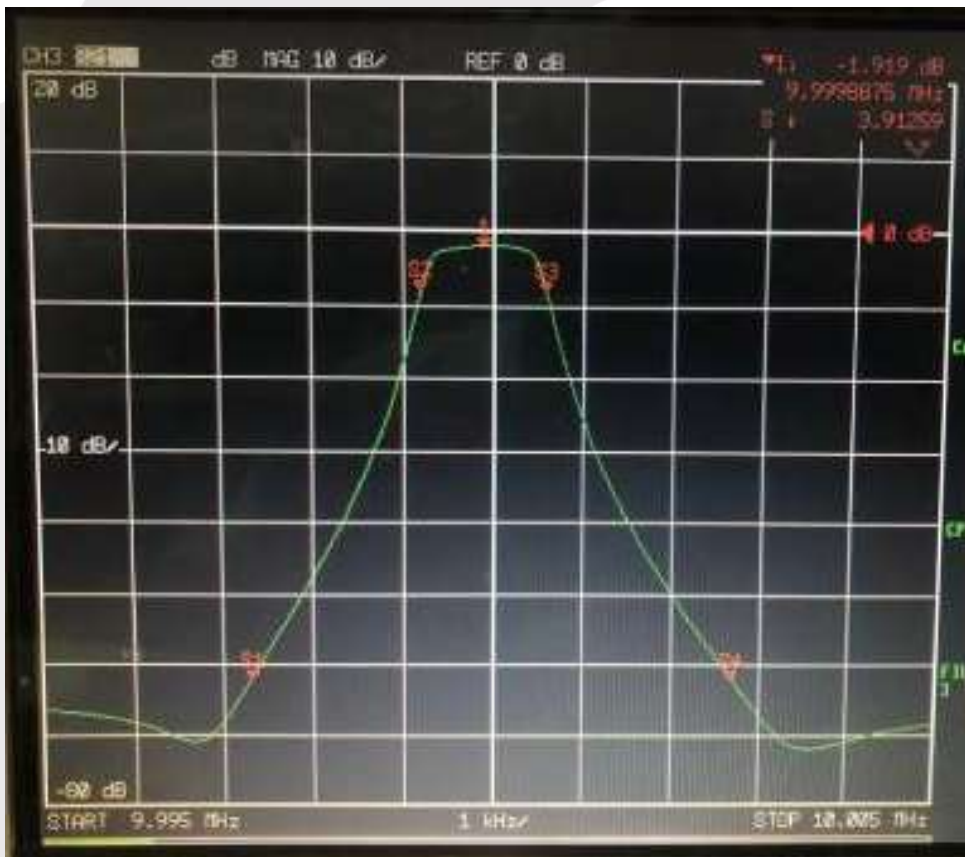
USAGE

It is connected between a 10 MHz signal source and a distribution amplifier or directly between a 10 MHz signal source and a device accepting the reference signal. As its insertion loss is small, nothing else would be needed. As it is a passive device, no DC power or anything else is required.

MECHANICAL DIMENSIONS (MM)



VNA PLOTS



AVAILABLE CONFIGURATIONS:

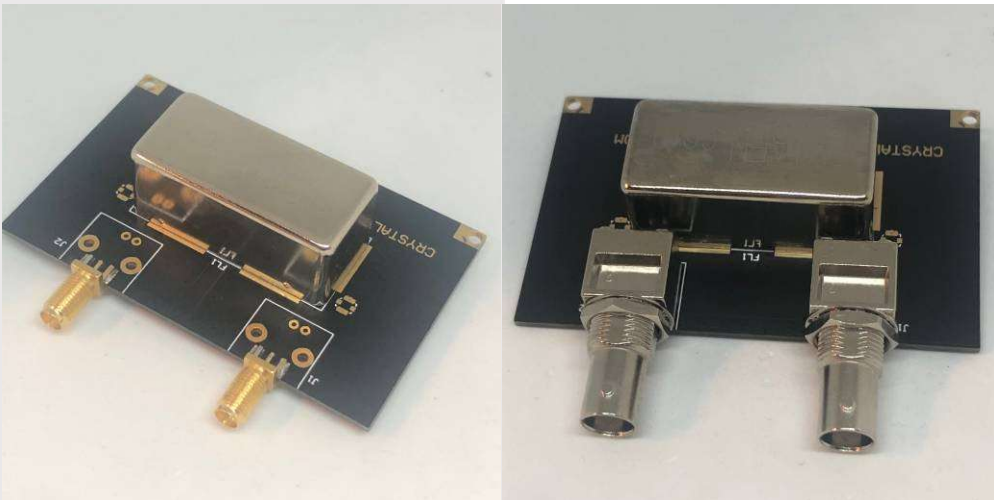
Crystal filter parts:

<https://www.sv1afn.com/en/product-category-4/10-mhz-crystal-filter-1-3.html>



Crystal Filter on a PCB Module:

<https://www.sv1afn.com/en/product-category-4/10-mhz-crystal-filter-1.html>



Crystal Filter encased:

<https://www.sv1afn.com/en/product-category-4/10-mhz-crystal-filter-1-1.html>

