HAB-FPA1090

1090Mhz ADS-B Ceramic Filter & Preamp For Dongles

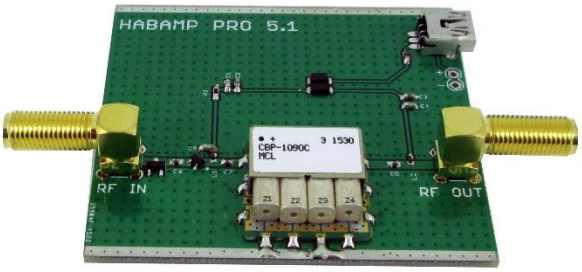
Description

This unit is a small filter and preamp PCB designed to go between a software defined radio receiver and an antenna. Using a ceramic bandpass filter and a low noise amplifier (LNA), it stops out of band intermodulation while providing additional gain for increased sensitivity. The LNA is before the ceramic filter. This particular model is tuned for use with ADS-B frequencies (1090Mhz).

The ceramic filter gives significantly more out of band attenuation than our SAW based units, additionally due to the lower insertion loss the gain is slightly up as well.

Powering The Unit

There are 2 options for powering the unit either by the USB header or via bias-tee. Devices such as the Airspy can enable bias-tee and power the device. Alternatively any mini USB cable can be used to power the device (USB Cable not provided).

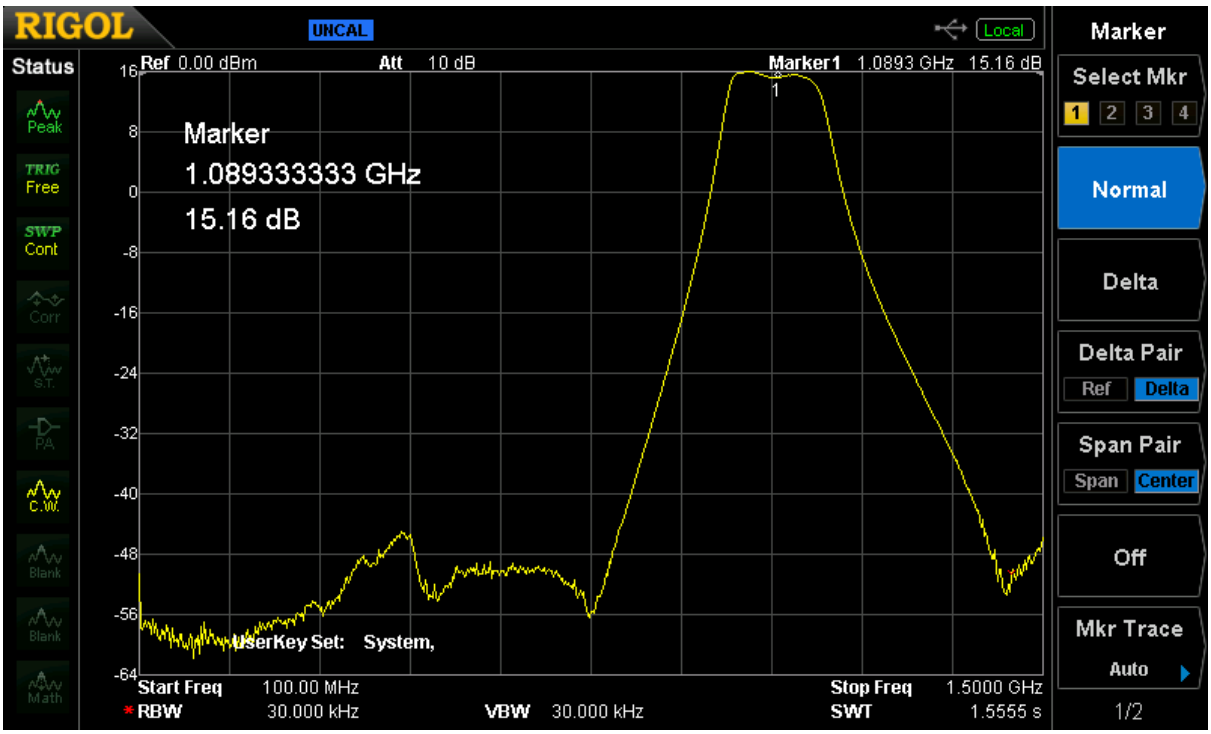


Uputronics™ T/A Nevis Computers Limited. Cottingley Business Park,Bingley,BD16 1PE.
Phone +44 1274 550910. Company number 3356647 E-Mail : info@uputronics.com
Web : https://store.uputronics.com Revision 1.4 01/02/2016

Board Specifications

Gain	min 15dB
NF	0.75dB
Supply Voltage	USB or Bias tee 5V.
Power Usage (from 5V)	56mA approx.
Case Dimensions	63.5mm x 63.5mm x 30mm (2.5” x 2.5” x 1.2”)

Frequency Response



Disclaimer

All Uputronics products are sold as test equipment with no guarantees of performance or operation, they are intended for engineering, research or lab use only not for use in production or commercial systems.

Our products should be used only in testing environments and at your own risk and discretion. This unit is not rated for outdoor use.

Uputronics™ T/A Nevis Computers Limited. Cottingley Business Park,Bingley,BD16 1PE.
Phone +44 1274 550910. Company number 3356647 E-Mail : info@uputronics.com
Web : https://store.uputronics.com Revision 1.4 01/02/2016