HAB-FPA-TXB

868MHz/915MHz Filtered Preamp with TX Bypass

Description

This unit is a filtered preamp designed to go between a transceiver and antenna. Using a SAW bandpass filter and a low noise amplifier (LNA), it stops out of band intermodulation while providing additional gain for increased receive sensitivity. The LNA is before the SAW filter.

The unit automatically bypasses the preamp circuit if a transmission is detected. This unit can be used with any transceiver up to its power handling limits.

Two models are available one with the filtering centred around 868MHz, the other for the US frequency on 915MHz.

Powering The Unit

There are 2 options for powering the unit either by the USB-C header or via bias-tee. A USB-C cable can be used to power the device (USB-C Cable not provided).

Board Specifications

Insertion Loss	< 3dB
TX Switching Sensitivity	-4dBm
Absolute Max Power TX	100mW (+20dBm)
Nominal Power TX	30mW (+15dBm)
Max current	60mA
Antenna Connection	DC Blocked Shorted Antennas Supported
Bias-Tee Passthru	No

LED Indicator

Blue indicates the unit is powered and is in RX preamplification mode, Red indicates the unit is in bypass mode.

Uputronics™ T/A Nevis Computers Limited. Cottingley Business Park,Bingley,BD16 1PE.
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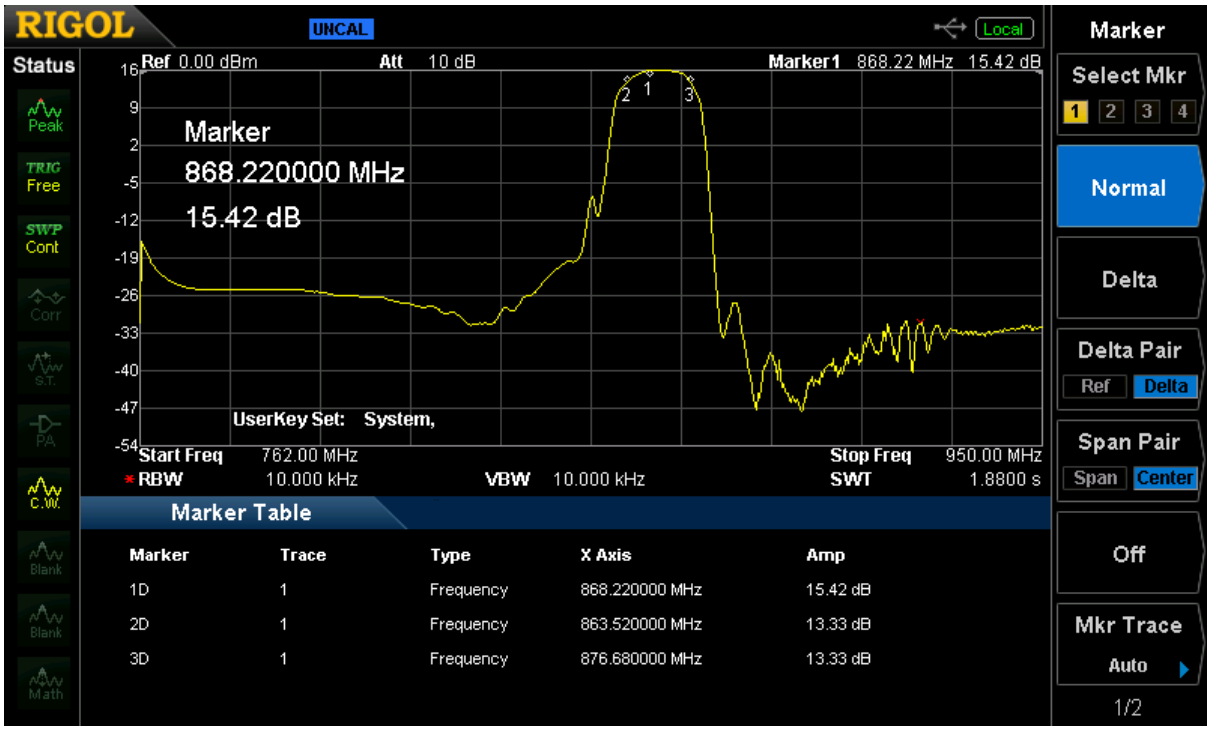
Receive Frequency Responses

868MHz



915MHz

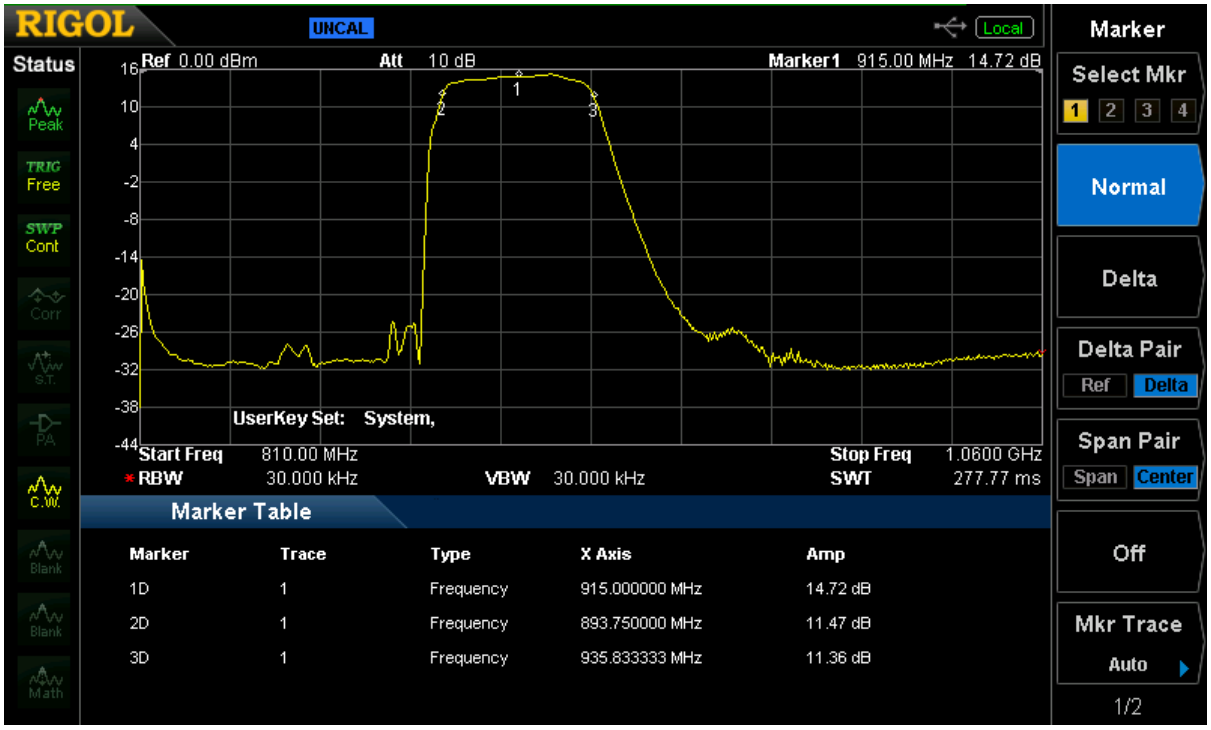


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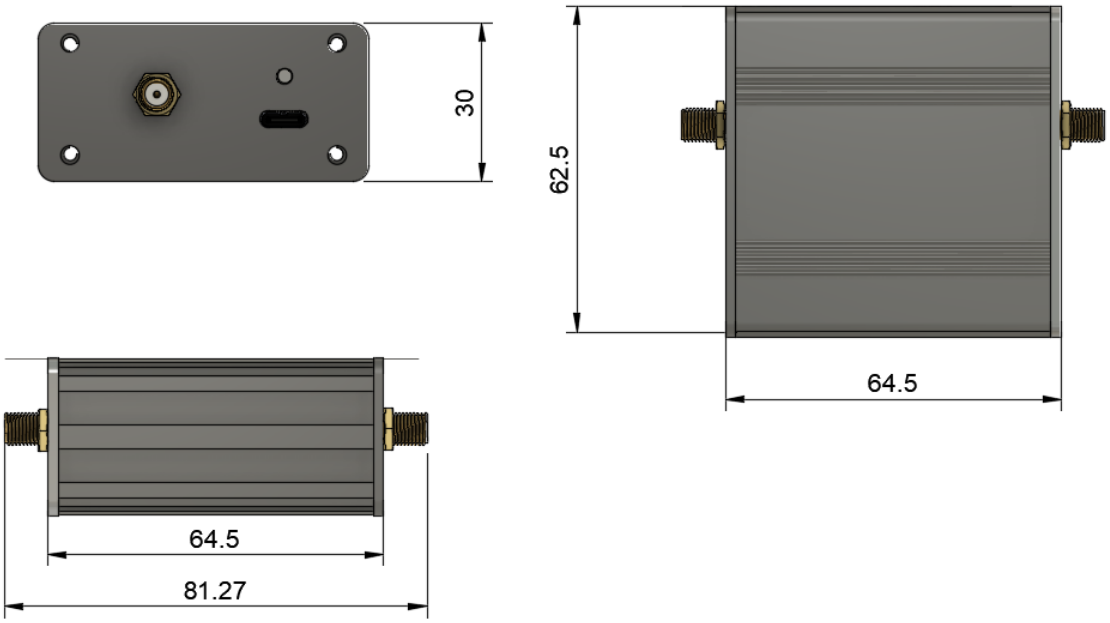
Image

Physical Dimension



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.

Due to the large number of scenarios this unit can be used in its not possible for us to test the unit in every possible situation therefore we urge you to do your own due diligence to ensure the unit is suitable for use in your environment.

This unit is not rated for outdoor use.

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