

VHF Air Band Filter

The ABF128 is a receive (only) bandpass filter especially designed to improve strong signal handling characteristics of receivers for VHF commercial Airband listening. The ABF128 is suitable not only for AOR receivers, but also for most airband and wideband receivers on the market. The addition of ABF128 will provide additional selectivity, and allow the receiver's circuitry to cope much more easily with strong interfering signals such as Band-2 Stereo or Shortwave broadcast transmissions, which can be manifest in many ways such as "hissing", multi-signal hash and desensitization of the receiver.

The ABF128 will provide additional selectivity (in many situations) to any receiver's "front end" by reducing the multitude of unwanted strong signals from reaching and saturating the receiver's first mixer stage. This results in less interference and improved reception.

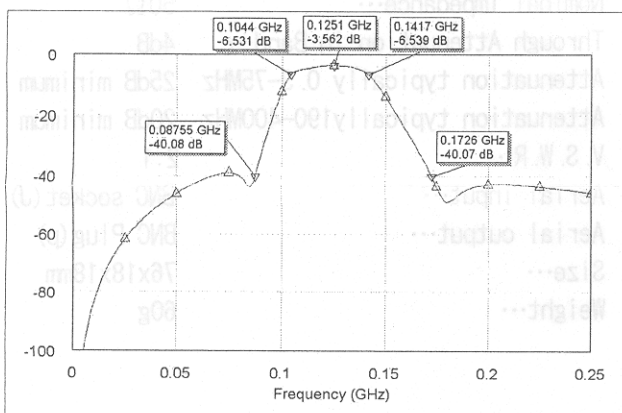
Of course "stub filters" can provide a degree of rejection to unwanted signals, but tend to be bulky, suitable for base station applications only and usually have to be hand-made. The ABF128 on the other hand is ready-made and very compact. Measuring only 76x18x18mm for only 60g, yet offers excellent out of band attenuation, typically 25dB for 0.3~75MHz and 20dB for 190~400MHz. This makes the ABF128 suitable for connection to both external aerials and right under the whip aerial of a hand-held receiver. A BNC socket (female) is fitted to the top of the ABF128 and a BNC plug (male) to the bottom, making the connection easy and straight forward.

ABF128 is not an amplifier, therefore will not "boost" signals, however the additional selectivity offered can significantly improve reception in many situations by removing unwanted strong signals which may overload the receiver and reduce it's effectiveness.

The ABF128 in band attenuation level is very small, due to the excellent in band V.S.W.R. of 2:1, resulting in a loss of only about 4dB.



Note: Remember to remove the ABF128 from the aerial when monitoring signals other than VHF Airband, or signal strength will be dramatically reduced.



Specification

Model...	ABF128
Bandpass Coverage...	108~136MHz
Nominal Impedance...	50Ω
Through Attenuation In Band...	4dB
Attenuation typically 0.3-75MHz...	25dB minimum
Attenuation typically 190-400MHz...	20dB minimum
V.S.W.R...	2:1
Aerial input...	BNC socket (J)
Aerial output...	BNC Plug (P)
Size (mm)...	76x18x18
Weight...	60g

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Specifications subject to change without prior notice