KROHN-HITE CORPORATION

Model FMB302
Filter Module Box

- **2 Channels**
- **DC Power**
- **Optional Battery Power Operation**
- **Single-Ended or Differential Input Configuration**
- **BNC and Terminal Block Connections**
- **Accepts Krohn-Hite 3A, 3B, 3C and 3D Modules**

DESCRIPTION

The Krohn-Hite Model FMB300 Filter Module Box is a compact 2 channel filter chassis that provide housing for the Krohn-Hite Fixed Frequency Filter/Amplifier 3A, 3B, 3C and 3D series modules. Each chassis has BNC connectors for both single-ended/differential input and output connections. Internal sockets are provided for making installation and removal of the filter/amplifier modules easy when updating or changing to different type filter/amplifier module requirements. Battery power is available as an option (FMB302B). Two high energy 9V batteries are recommended for this option.

APPLICATIONS

Applications for the FMB300 includes: anti-alias filtering, data acquisition systems, aerospace (sonar and navigation), sound and vibration testing, medical electronics, communication systems, real and compressed time data analysis, noise elimination and signal reconstruction and more.

SPECIFICATIONS *(Apply at ±9Vdc to ±15Vdc.)*

Number of Channels: 2.

Power Supply Voltage (±Vs): Operating range: ±9Vdc to ±15Vdc; Maximum safe voltage: ±18Vdc.

Current: 70mA.

USER DEFINED FILTER OPTIONS

Type: Butterworth or Bessel

Function: Low-pass, high-pass, band-pass.

Cutoff (corner) Frequency: Value between 0.1Hz to 1MHz, ±2%, low-pass; 0.1Hz to 600kHz, ±2%, high-pass. Frequency will depend on gain requirements.

Number of Poles (dB/octave): 1 (6dB), 2 (12dB), 3 (18dB), 4 (24dB) . . . 8 (48dB) and 16dB (96dB).

Input Configuration: Differential or single-ended (depends on the module options selected).

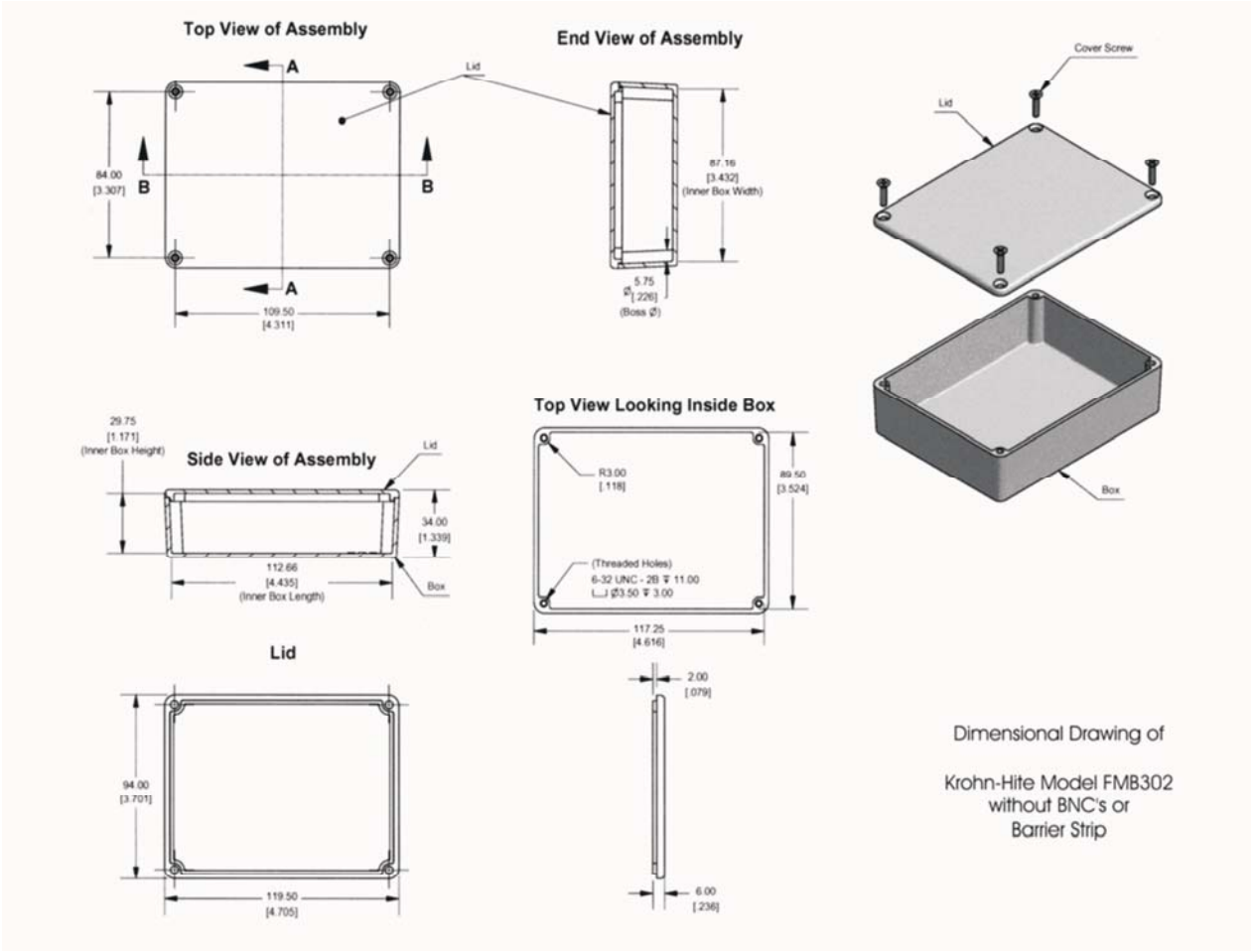
Input Gain: Any value between 1 and 100. It is recommended to amplify small input signals in order to improve overall signal-to-noise ratio.

Output Gain: Any value between 1 and 100.

ACCESSORIES

3A, 3B, 3C and 3D Filter/Amplifier Modules

Specifications subject to change without notice.


Top View of Assembly
End View of Assembly
Cover Screw
Lid
A
B
84.00
[3.307]
109.50
[4.311]
87.16
[3.432]
(Inner Box Width)
5.75
[.226]
(Boss Ø)
Top View Looking Inside Box
29.75
[1.171]
(Inner Box Height)
Side View of Assembly
34.00
[1.339]
112.66
[4.435]
(Inner Box Length)
Box
R3.00
[.118]
89.50
[3.524]
(Threaded Holes)
6-32 UNC - 2B ↧ 11.00
⌴ Ø3.50 ↧ 3.00
117.25
[4.616]
Lid
94.00
[3.701]
119.50
[4.705]
2.00
[.079]
6.00
[.236]
Dimensional Drawing of
Krohn-Hite Model FMB302
without BNC's or
Barrier Strip