

AVIONICS DESIGN SERVICES LTD.
ENGINEERING ORDER

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RELEASED**

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NUMBER: EO13015-5

MANUFACTURER: Airbus Helicopters

ISSUE: 1

MODEL: AS-350B, B1, B2, B3, BA, D

DATE: Sept. 22, 2021

REGISTRATION: N/A

APPROVED: 

SERIAL NUMBER: N/A

INSTALLATION INSTRUCTIONS FOR TECHNISONIC FILTERS AND ATTENUATORS
(AS350)

I. GENERAL INFORMATION

A. DESCRIPTION

The purpose of this Engineering Order is to provide installation instructions for the Technisonic Filter and Attenuator options as required for the TDFM-9x00 FM Transceiver and/or FM antennas.

B. APPLICABILITY

AS-350 rotorcraft with a TDFM-9x00 Series FM transceiver being installed, requiring any of the following optional Technisonic Industries Ltd. Filter and/or Attenuator components:

- i) HPF-136 (P/N: 133956-1), VHF High Pass Filter
- ii) PLF-900 Power Line Filter
- iii) SRA-6000 Switched Receiver Attenuator

C. WEIGHT AND BALANCE

Determined by installer.

D. ELECTRICAL LOAD DATA

Not applicable.

E. REFERENCES

1. Avionics Design Services Ltd., TIL FM Transceiver Install, EC AS-350, WD13004
2. Airbus Helicopters, AS350 Standard Practices Manual
3. FAA, Advisory Circular - Acceptable Methods, Techniques, and Practices - Aircraft Inspection and Repair, AC43.13-1B
4. FAA, Advisory Circular - Acceptable Methods, Techniques, and Practices - Aircraft Alterations, AC43.13-2B

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II. INSTRUCTIONS

Note - For all installations, the practices and procedures provided in the Airbus Helicopters AS350 Standard Practices Manual, and FAA AC43.13-1b and AC43.13-2b MUST be followed.

Note - The following procedure is to be accomplished with rotorcraft power off.

HPF-136 VHF High Pass Filter Installations

1. The HPF-136 (P/N: 133956-1) VHF High Pass Filter must be installed on either the rotorcraft's secondary or tertiary structure, in a location close to its applicable FM antenna. If required, fabricate a mounting plate or bracket(s), to match the chosen installation location. The footprint of the HPF-136 is provided below in Figure 1 for reference.
2. If a mounting plate/ bracket is used, secure the HPF-136 to the plate/ bracket using four sets of appropriately-sized standard aviation grade fasteners. The plate/ bracket assembly must then be installed onto the rotorcraft secondary or tertiary structure using standard aviation grade mounting hardware.
3. If no mounting plate/ bracket is used, install the HPF-136 directly onto the rotorcraft secondary or tertiary structure using four sets of appropriately-sized standard aviation grade fasteners.

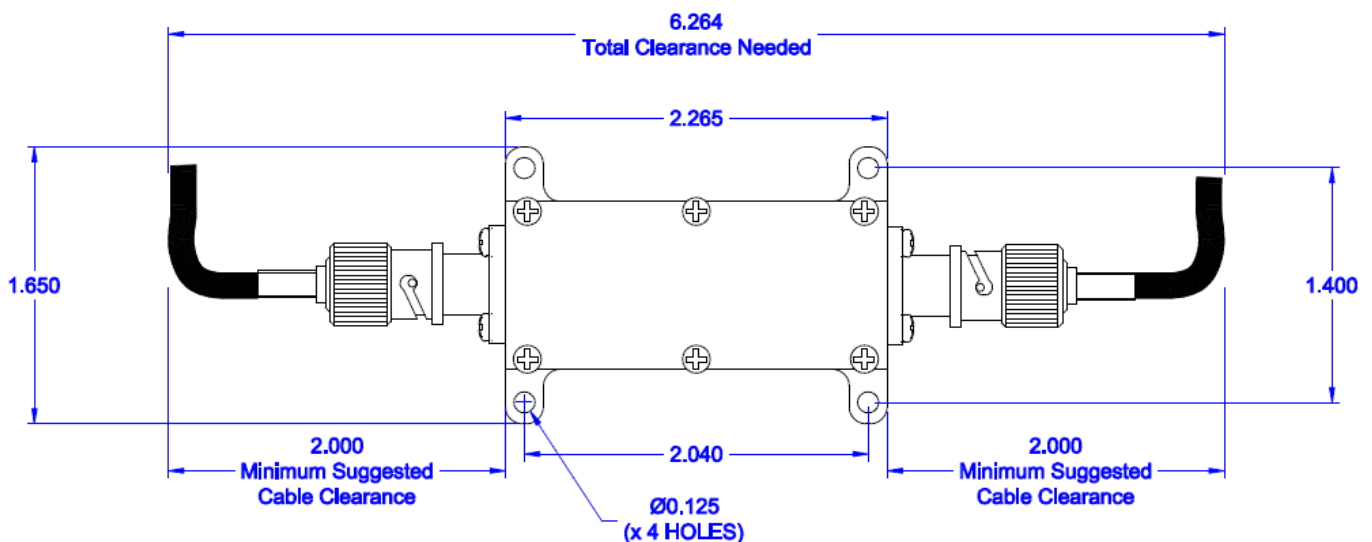


Figure 1 - HPF-136 Installation Footprint

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PLF-900 Power Line Filter Installations

1. The PLF-900 Power Line Filter must be installed on either the rotorcraft's secondary or tertiary structure, in a location as close as possible to the TDFM-9x00 series transceiver. If required, fabricate a mounting plate or bracket(s), to match the chosen installation location. The footprint of the PLF-900 is provided below in Figure 2 for reference.
2. If a mounting plate/ bracket is used, secure the PLF-900 to the plate/ bracket using four sets of appropriately-sized standard aviation grade fasteners. The plate/ bracket assembly must then be installed onto the rotorcraft secondary or tertiary structure using standard aviation grade mounting hardware.
3. If no mounting plate/ bracket is used, install the PLF-900 directly onto the rotorcraft secondary or tertiary structure using four sets of appropriately-sized standard aviation grade fasteners.

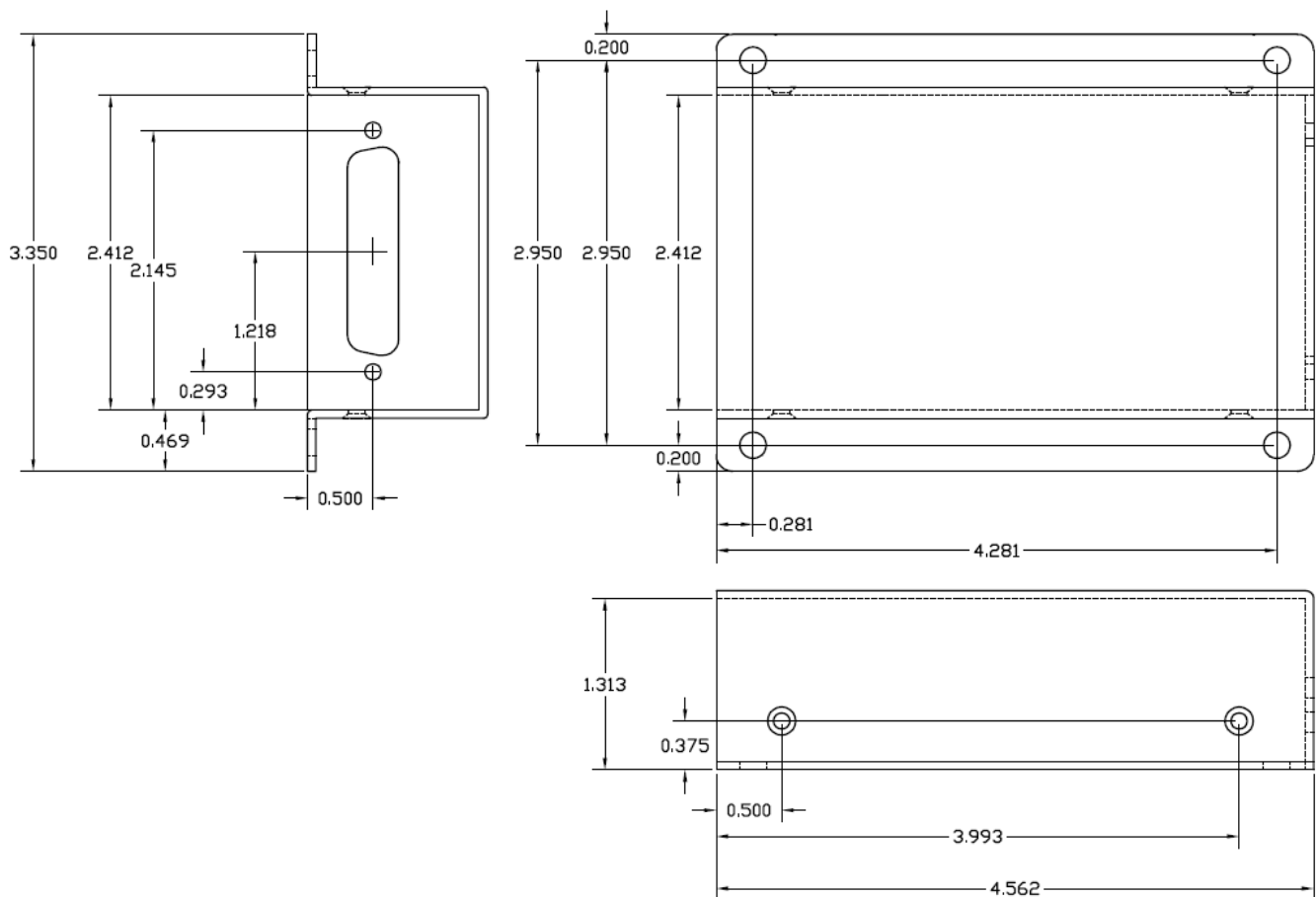


Figure 2 - PLF-900 Installation Footprint

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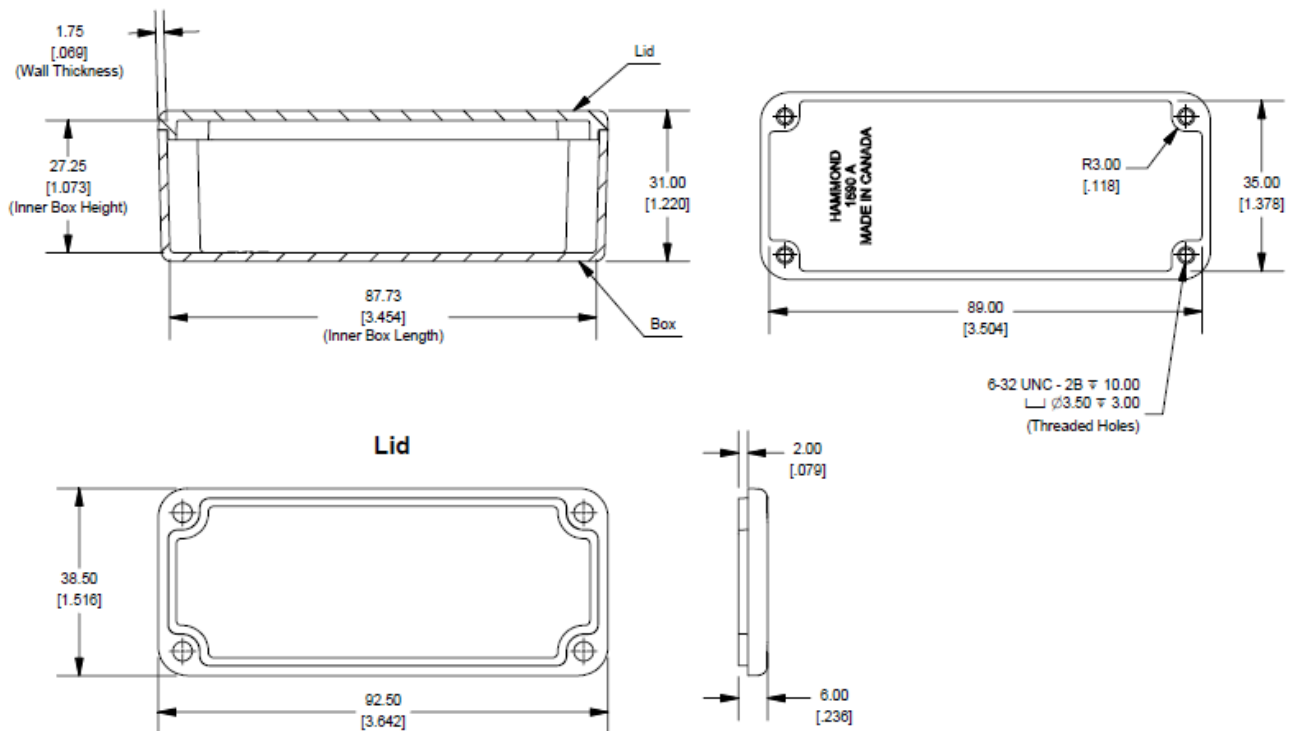
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SRA-6000 Switched Receiver Attenuator Installations

1. The SRA-6000 Switched Receiver Attenuator must be installed on either the rotorcraft's secondary or tertiary structure, in a location close to its applicable FM antenna. If required, fabricate a mounting plate or bracket(s), to match the chosen installation location. The footprint of the SRA-6000 is provided below in Figure 3 for reference.
2. Remove two, opposite corner, screws from the SRA enclosure.
3. If a mounting plate/ bracket is used, secure the SRA-6000 to the plate/ bracket using two sets of standard aviation grade #6-32 fasteners. The fasteners must pick up on the two empty, opposite corner, screw holes, from Step 2. The plate/ bracket assembly must then be installed onto the rotorcraft secondary or tertiary structure using standard aviation grade mounting hardware.
5. If no mounting plate/ bracket is used, install the SRA-6000 directly onto the rotorcraft secondary or tertiary structure using two sets of standard aviation grade #6-32 fasteners. The fasteners must pick up on the two empty, opposite corner, screw holes, from Step 2.



3.

Figure 3 - SRA-6000 Installation Footprint

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