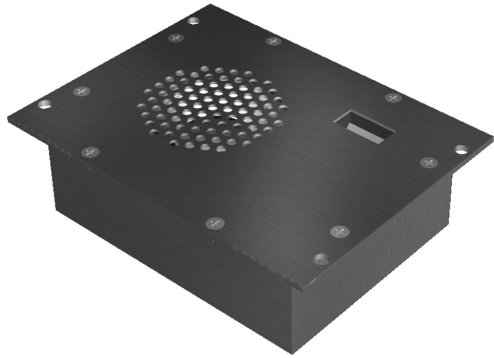


# ALTO

A V I A T I O N

Premium Cabin Audio/Entertainment Solutions  
for all aircraft in Business Aviation™

## ASP-313 Aircraft Cabin Loudspeaker



The ASP-313 is bass reflex loudspeaker module with a single high excursion driver that is precisely matched to the acoustically tuned enclosure resulting in high output. It weighs less than 8 oz. The motor structure of the driver is designed to have low magnetic leakage compared to conventional designs. The orientation of the driver provides for a wide sound dispersion characteristic reducing localization and an improvement in the acoustic balance in the aircraft cabin. The small dimensions of the unit simplify installation in the overhead panels, requiring less width and depth behind the panel, and a smaller grill opening into the cabin.

### FEATURES

- Weighs less than 8 ounces
- 1.5" deep
- Small package allows for easy installation
- Wide dispersion pattern to reduce near-speaker localization while providing even sound throughout the cabin
- TSO-C139
- Integrated grills protect speakers during installation
- Bass reflex aluminum enclosure with welded seams
- Integral part of the ALTO Aviation Entertainment System (AES)

### SPECIFICATIONS

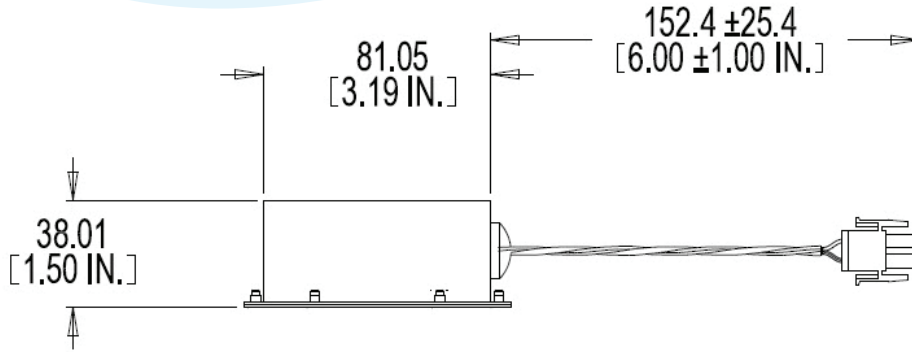
|                                |   |
|--------------------------------|---|
| <b>Product Code</b>            | 106508-313-8AXXXX (8 Ohm) (Standard connector type A)   |
| <b>Frequency Response</b>      | 150Hz - 20KHz   |
| <b>Impedance</b>               | 8 Ohm nominal, depending on application   |
| <b>Drivers</b>                 | 2" high excursion, low magnetic leakage<br>1 per enclosure  |
| <b>Enclosure</b>               | Bass reflex matched precisely to the driver, Aluminum with welded seams, Integral grill for driver protection during installation |
| <b>Continuous Power Rating</b> | 10 Watt RMS   |
| <b>Max. Power Rating</b>       | 20 Watt RMS   |
| <b>Sensitivity</b>             | 89 dB SPL @ 1W/1m @ 1kHz  |
| <b>DO-160F Env. Cat</b>        | [A2X]CAB[(SC)(HR)]XXXXXXBXXXXXX[XXXXX]XXXX  |
| <b>Mating Connector</b>        | 2 pin Amp Universal MATE-N-LOK (Connector type A)   |
| <b>Weight</b>                  | <8 oz (224 g)   |
| <b>Dimensions</b>              | 3.75"W X 5"H X 1.5"D<br>95.2mm W X 127mm H X 38mm D   |

# ALTO

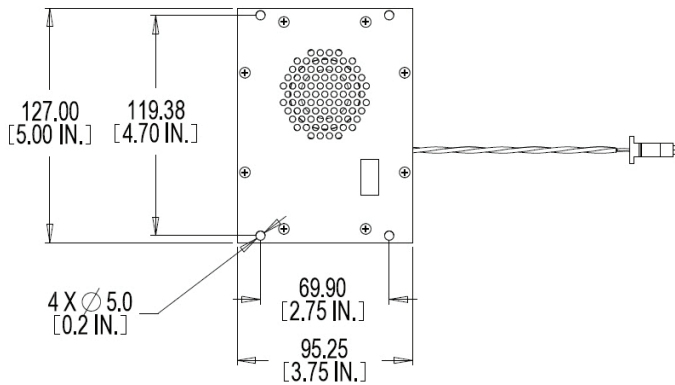
## AVIATION

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### ASP-313 Aircraft Cabin Loudspeaker



#### DIMENSIONS

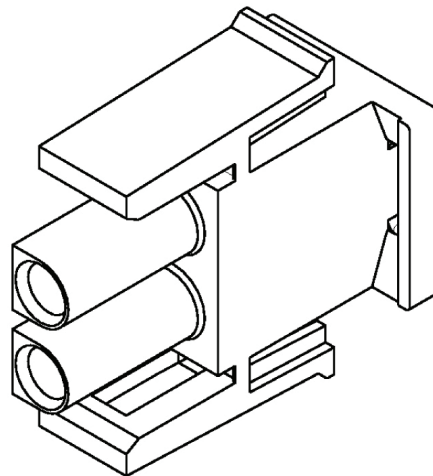


Note: Dimensions are for reference only. See DA (Delivered Assembly) drawing for exact dimensions. If the dimension, weight, and connector specifications of this product do not meet your requirements, ALTO can custom design a product for your application.

#### CONNECTOR PINOUTS

Connector for p/n's 106508-313-XAXXXX, where "A" designates specific connector.  
Please contact ALTO for additional connector options.

**Pin 2 -**  
**Pin 1 +**



Mating Connector  
Amp PN 350778-1

Mating Pin  
Amp PN 350550-1