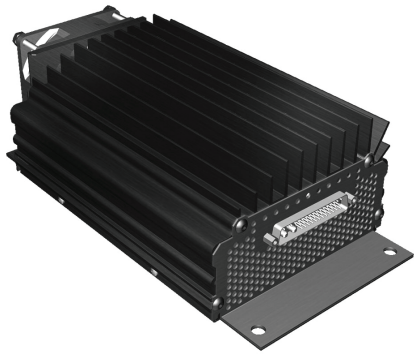
ALTO AVIATION

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

AA-686DC

Aircraft Cabin Audio Amplifier w/Custom EQ



The AA-686DC is a 6 channel, 240 Watt RMS audio PA audio amplifier with integrated custom EQ for specific aircraft types. Utilizing proprietary acoustic measurement and design software, the aircraft interior is acoustically mapped and circuits are designed so that the effects of the interior are neutralized allowing the announcements to be heard with high intelligibility. Designed to be used in conjunction with ALTO speakers, the amplifier will deliver 40 Watts per channel. Each channel contains a distortion limiter circuit which allows for full power operation without harsh distortion to overcome high noise environments. The low weight (3 lbs) and small size (5.4"W x 3.4"H x 10.1"D) allow for convenient mounting and flexible system configuration. Powered from Aircraft 28 VDC supply.

FEATURES

- Weighs only 3 lbs
- Small package 5.4"W x 3.4"H x 10.1"D
- Integral EQ customized for each aircraft type for high intelligibility
- EQ optimized for voice clarity
- 6 channels, 40 Watts RMS per channel
- Proprietary SineWatch™ circuitry prevents audible distortion at full power without affecting audio signal integrity and helps overcome aircraft noise
- Operates on +28VDC power supply
- Aluminum case w/ forced air cooling from end mounted fan

SPECIFICATIONS

Product Code	105660-XXXX -XXXX describes the EQ version/aircraft type
Frequency Response	100Hz - 12KHz
Power Supply	28 VDC
Operating Current	3 A nominal (varies with volume setting and audio content) 16 A maximum (20 A breaker recommended)
Idle Current (no signal)	800 mA
Input	Differential, 10K ohm input impedance
Input Level	600 mV RMS to 6 V RMS, Nominal 2V RMS
Output Power	40 Watts RMS/channel (240W) total
Output Load	4 - 8 Ohm recommended, 3 ohm minimum, Average impedance of all 6 channels must be >3.5 ohms
Distortion	<0.1% THD @ 50% rated power, maximum 3% (distortion limiter active)
Output Noise (no signal)	< 200 uV A-Wgt
Gain	Adjustable in channel pairs, , 0 to +18 dB in 2dB steps
Equalizers	Custom designed EQ/crossovers matched to aircraft type utilizing speakers from the ALTO Aviation Entertainment System (AES)
Connector	43W2 Combo D Male
Dimensions	5.4" W (138mm) X 3.4" H (87mm) X 10.1"D (257mm)
Weight	3 lbs (1.4 kg)

86 Leominster Rd Sterling, MA 01564
978-466-5992, 800-814-0123 (Toll-Free)
978-466-5996
www.altoaviation.com

AA-686DC Aircraft Cabin Audio Amplifier w/Custom EQ

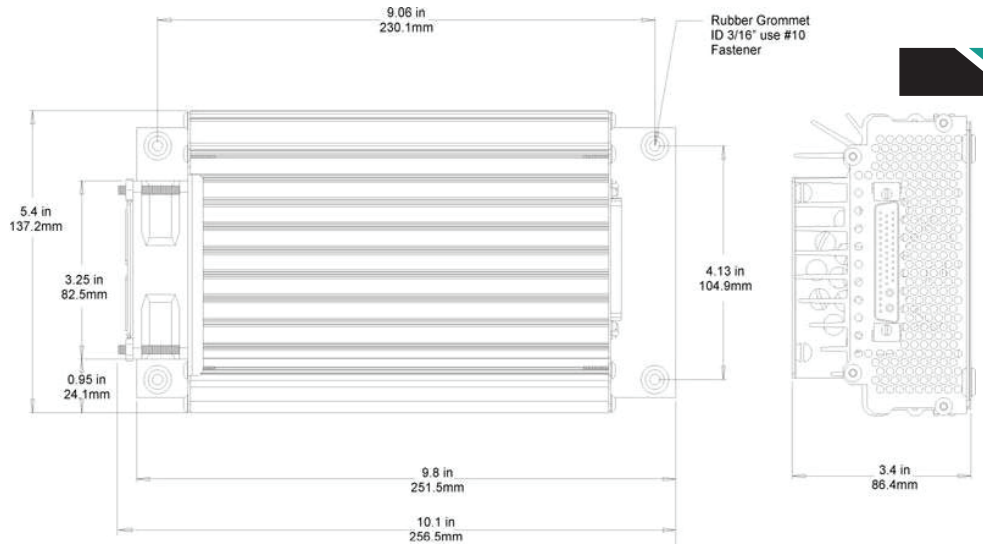
ALTO AVIATION

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

AA-686DC

Aircraft Cabin Audio Amplifier w/Custom EQ

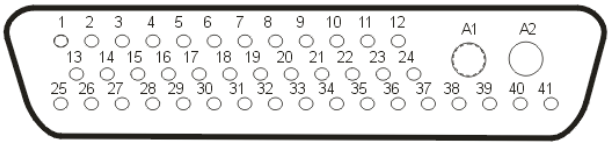
DIMENSIONS



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

43 Pin Combo-D D-sub Male connector
(Positronic # CBD43W2M55B1000X)



PIN#	FUNCTION	PIN#	FUNCTION
1	Speaker Output 1+	23	Channel Input 6+
2	Speaker Output 1-	24	Channel Input 6-
3	Speaker Output 2+	25	N/C
4	Speaker Output 2-	26	N/C
5	Speaker Output 3+	27	N/C
6	Speaker Output 3-	28	N/C
7	Speaker Output 4+	29	N/C
8	Speaker Output 4-	30	N/C
9	Speaker Output 5+	31	N/C
10	Speaker Output 5-	32	N/C
11	Speaker Output 6+	33	N/C
12	Speaker Output 6-	34	N/C
13	Channel Input 1+	35	N/C
14	Channel Input 1-	36	DC Chassis Ground
15	Channel Input 2+	37	N/C
16	Channel Input 2-	38	N/C
17	Channel Input 3+	39	N/C
18	Channel Input 3-	40	N/C
19	Channel Input 4+	41	N/C
20	Channel Input 4-	A1	+ 28 VDC
21	Channel Input 5+	A2	Ground
22	Channel Input 5-		

86 Leominster Rd Sterling, MA 01564
978-466-5992, 800-814-0123 (Toll-Free)
978-466-5996
www.altoaviation.com