

P R O V E N

Quality, Dependability and Reliability

A key aspect of Avtech's 5682 system design is the integration of the Cabin Interphone Controller within the Passenger Address Amplifier. This approach reduces size, weight and LRU count. Design efficiency allows these capabilities to fit into a 1/4 ATR Short Package. The 5682 series amplifier has been designed exclusively for the 70 to 100 passenger regional commuter aircraft.



PASSENGER ADDRESS AMPLIFIER

Avtech's 5682 PA amplifier receives control signals from the flight deck audio system, interphone handsets, passenger service units, weight on wheels switches to determine the operating mode of the passenger address system.

- In accordance with FAR 121.318 and 121.319, power is supplied separately for the Cabin Interphone and Passenger Address functions
- Interfaces directly with Avtech's Handset/Cradle units
- Sixteen discrete inputs are provided to select the operating mode of the amplifier
- System parameters can be adjusted via an RS232 interface facilitating on-aircraft certification testing
- FAA TSO C50c certified
- 80% efficiency due to Avtech's unique Class D power amplifier
- Test tone provides a pink noise signal to facilitate aircraft testing
- PA amplifier includes chime generation for High, Low and High/Low chimes

Avtech Corporation

3400 Wallingford Ave. North

Seattle, Washington 98103

www.avtcorp.com

Tel: (206) 695-8000

Fax: (206) 695-8011

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An Aviation Technologies, Inc. Company

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SPECIFICATIONS

Requirement	DO-160D Section	Category	Remarks
Temperature and Altitude	4	A2	
In-Flight Loss of Cooling	4.5.4	-	Not Applicable
Temperature Variation	5	C	
Humidity	6	A	
Operational Shocks and Crash Safety	7	Applies	Shall meet requirement
Vibration	8	CMS	
Explosion Proofness	9	E2	In an Environment II
Waterproofness	10	X	
Fluids Susceptibility	11	X	
Sand and Dust	12	X	
Fungus Resistance	13	F	
Salt Spray	14	X	
Magnetic Effect	15	B	
Power Interrupt			Shall withstand power interrupts of up to 200 mSec without affecting its performance and without loss of System operation or spurious alerts per DO-160, Section 16, Paragraph 16.5.2.3 and without the need to reset the System.
Power Input	16	A	Shall also meet operational requirements when tested per MIL-STD-704b
Voltage Spike	17	A	
Audio Frequency Conducted Susceptibility, Power Input	18	Z	
Induced signal Susceptibility	19	Z	
R. F. Susceptibility, Radiated & Conducted	20	U	
Emission of RF Energy	21	Z	
Lightning Induced Transient Susceptibility	22	A2C2	Level 2
Lightning Direct Effects	23	X	
Icing	24	X	



Interfaces directly with Avtech's 5583 series of Inter-
phone Handset Cradles

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