

## PASSENGER ADDRESS AMPLIFIER



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

AvtechTye'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 AvtechTye'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 AvtechTye'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

Since 1969 AvtechTye has been a leader in the design, development, and manufacture of electronic systems for the aerospace industry, with a focus in three product groups: Audio, Avionics and Structures.

AvtechTye products are flying onboard 42 aircraft types within the air transport, regional commuter, and business jet sectors, serving 450 customers in 49 countries of the world.

Our versatility in supporting aerospace electronics requirements ranges from the custom design and manufacturing of complex power supplies to complete Digital Audio Systems.

AvtechTye is certified to ISO9001, AS9100 and the FAA's ACSEP. Product Support includes in-house repair services (FAA approved Repair Station #IG6R621N), loaner/exchange programs, and both in-house and off-site airline training.

### AvtechTye Corporation

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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 AvtechTye's 5583 series of Interphone Handset Cradles



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