

In-Line Amplifiers

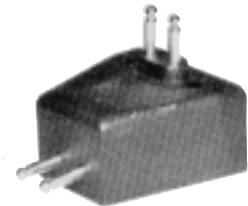
Models A641-4B, A641-5B and A651B



Model A641-4B



Model A641-5B



Model A651-B

**THIS UNIT IS USED ON THE
FOLLOWING AIRCRAFT:**

- Blackhawk • Apache • Huey
- CH-46 • CH-46E
- Joint Strike Fighter (JSF)

**THIS UNIT IS USED ON THE
FOLLOWING AIRCRAFT:**

- F-14 • E2C • EA6B • F-18

DESCRIPTION AND USE

The Andrea Model A641-4B, A641-5B, and A651B In-Line amplifiers are subminiature, solid state microphone amplifiers which make it possible to replace a noisy carbon microphone with a low impedance, low noise dynamic microphone in any voice communication system.

No modification to the system is necessary because the amplifiers are designed to operate from the bias current normally used for the carbon microphone. They are high gain, low noise amplifiers with excellent reliability. They are shielded from electric and magnetic field interference and completely encapsulated.

The amplifiers are electrically identical. The A641-5B is designed specifically for use inside an oxygen mask. A641-4B and A651B are qualified to MIL-A-23595D.

GENERAL CHARACTERISTICS

Environmental.....	MIL-E-5400, Class I
Mean Time Between Failures....	2000 hrs.
Size: A641-4B.....	3/4" W x 1/2" H x 1 1/2" D
A641-5B.....	1 1/8" Dia. x 5/16" H
A651B.....	1" W x 1" D x 9/16" H

TEMPERATURE

Continuous Operation.....	-54° C to +55° C
Intermittent Operation.....	+55° C to +71° C
Storage.....	-65° C to +71° C

POWER.....	14 mA @ 20 VDC
Polarity.....	Insensitive

Gain @ 1 KHz.....	61 +/-1 dB
Frequency Response.....	100 Hz to 6 KHz
Input Impedance.....	5 Ohms
Output Impedance.....	100 Ohms
Distortion 300 to 2500 Hz.....	2% Max. @ 250 mV output

C46-5380 Rev C