

**In-Line Amplifier
Model A81-123**



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

United States Coast Guard Aircraft

DESCRIPTION AND USE

The Andrea Model A81-123 In-Line amplifier is a subminiature, solid state microphone amplifier which makes 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 amplifier is designed to operate from the bias current normally used for the carbon microphone. The Andrea Model A81-123 is a high gain, low noise amplifier with excellent reliability. The unit is shielded from electric and magnetic field interference and completely encapsulated.

The A81-123 Audio Frequency Amplifier conforms to MIL-A-23595D.

SPECIFICATIONS*

GENERAL CHARACTERISTICS

Environmental..... MILE-5400, Class I
Size: A81-123..... 10 3/4" Long Max.

PLUG TYPE

Male:

Telephone Plug Type: U-174/U (M9177/2-1)

Mating Connectors: M9177/3-1, M9177/4-1, M9177/5-1

Female:

Telephone Jack Type: U-385/U

Mating Plug: M642/14-1

TEMPERATURE

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

POWER..... 20 mA Max. @ 27.5 VDC

Input Voltage..... 27.5 VDC (22-30 V)

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

*Specifications subject to change without notice.