ANDREA SYSTEMS LLC

Product Specification

Audio Frequency Amplifier

Model AM-1965F/AIC (Andrea P/N A81-78)
Model AM-4346/AIC-25 (Andrea P/N A81-86)



Model AM1965F/AIC

THIS UNIT IS USED ON THE FOLLOWING AIRCRAFT:

• F-16

• F-117

• C-130 • KC-135

· C-5

· B-52

GENERAL CHARACTERISTICS

Mean Time Between Failure...... 3000 hrs.

Size...... 4 1/4" W x 1 13/32" H x 3 3/32" D

Weight...... 0.97 lbs. Max.

Temperature:

to a 2 gauss field...... O.01 V max. @ 400 cycles

Noise with 3V, ripple

DESCRIPTION AND USE

The Andrea Model A81-78, Audio Frequency Amplifier is a solid state, one-watt power amplifier with exceptional reliability.

The amplifier can be used to drive an 8 ohm headset or speaker or as a low noise, high gain preamplifier in any voice frequency system. The A81-78 also contains an optional Automatic Gain Control circuit, which can be used to prevent overloading, or distortion of the signal.

The A81-78 and its companion unit, Andrea Model A81-77, form a pair of listen and talk amplifiers, which have logged many hours of reliable service in a variety of aircraft and ground, based communication systems.

C46-5386 Rev C

INTERFACE DESCRIPTION

Audio Amplifiers

		AIVI-13031 / AIC (AIIUI Ed AO 1-70)
Unit Connector		Vishay / Dale SMP20-14-027 or equivalent14 pins
Pin A	<u>Name</u> Input Low	<u>Description / Comments</u> ■ Input Audio return
В		Reserved for chassis ground in some applications
С	Input High	 Input Audio 0.5 mV to 24 mV, typical input range Input impedance > 500 0hms Expected source impedance 150 0hms The input is transformer isolated.
D	Battery ground	DC Power return
E	Speaker High	 High impedance Audio Output to LS-184A()/AlC-10 Speaker (Andrea A61-9) Output voltage 8 dB higher than headset output Expected load impedance 1K Ohm The speaker output is transformer isolated
F		Reserved for chassis ground in some applications
Н	Headset High	 Headset audio output to low impedance headset (Rated load impedance 9.5 Ohms) 3 V rms for 1 Watt rated output to rated load impedance The headset output is transformer isolated
K	Speaker Low	Speaker output return
J	Headset Low	Headset output audio return
L	27.5 VDC Power Input	Normal Input range 17 to 29 VDCInput current maximum 207 mA @ 28 VDC
M	Call Line Control	 With this line open (or not connected) AGC limiting is OFF. 17 VDC to 29 VDC powers AGC circuitry to limit output to approximately 1 watt (low distortion, rated output)
R	Internal Connection	• DO NOT USE

AM-4346 / AIC-25 (Andrea A81-86)AM-1965F / AIC (Andrea A81-78)