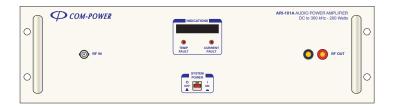


200 Watt Audio Power Amplifier ARI-101A

Features

- Frequency Range: DC to 300 kHz
- 200 Watts Power into 2 ohms 225 Watts Power into 1 ohm
- Protection Circuitry from Input Overload, Over-Temperature & Over-Current



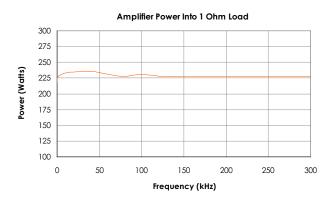
Description

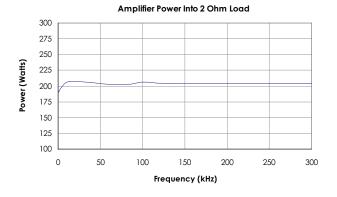
The Com-Power ARI-101A Audio Power Amplifier is specifically geared for conducted and radiated susceptibility testing such as that described in MIL-STD-461 (CS101 & RS101) and RTCA DO-160 (Section 18), in addition to other standards.

The ARI-101A operates from DC to 300 kHz with an output power up to 200 Watts (into 2 ohms) and 225 Watts (into 1 ohm).

The amplifier is equipped with protection circuitry to avoid damage in the case of improper output connections (shorted or improper loads), over-temperature as well as over-currents.

There is a also a digital voltmeter display on the front panel along with LEDs for indication of any over-temperature and over-current conditions.





Specifications

GENERAL Products Description Audio Power Amplifier Application Audio Frequency Susceptibility Testing Standards MIL-STD-461, RTCA DO-160, etc. Frequency Range DC to 300 kHz Output Power 200 Watts (into 2Ω), 225 Watts (into 1Ω) Input Signal odBm (maximum) Input Impedance 50 ohms (nominal) Output Impedance 1 ohm, 2 ohms Output Voltage >10 Vrms (DC to 150 kHz with odBm input) Sistortion \$0.3% DC Drift < ±1.5 mV (after 30 minutes of operation) Phase Response ±5 degrees Residual Noise 300 μV Signal-to-Noise Ratio -100 dB Gain Linearity 0.15% Common Mode Rejection ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS Input Connector BNC (female)
Application Audio Frequency Susceptibility Testing Standards MIL-STD-461, RTCA DO-160, etc. Frequency Range DC to 300 kHz Output Power 200 Watts (into 2Ω), 225 Watts (into 1Ω) Input Signal odBm (maximum) Input Impedance 50 ohms (nominal) Output Impedance 1 ohm, 2 ohms Output Voltage >10 V _{rms} (DC to 150 kHz with o dBm input) Distortion ≤0.3% DC Drift <±1.5 mV (after 30 minutes of operation) Phase Response ±5 degrees Residual Noise 300 μV Signal-to-Noise Ratio -100 dB Gain Linearity 0.15% Common Mode Rejection -60 dB ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
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Output Impedance 1 ohm, 2 ohms Output Voltage >10 Vrms (DC to 150 kHz with o dBm input) Distortion \$0.3% C Drift < \$\pm\$1.5 mV (after 30 minutes of operation) Phase Response \$\pm\$5 degrees Residual Noise 300 \(\mu \text{V} \) Signal-to-Noise Ratio -100 dB Gain Linearity 0.15% Common Mode Rejection AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
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Distortion \$0.3% DC Drift \$\left\times \text{t1.5 mV}\$ (after 30 minutes of operation) Phase Response \$\pm 5\$ degrees Residual Noise \$\left\times 00 \muV\$ Signal-to-Noise Ratio \$\left\times 0.15\%\$ Common Mode Rejection \$\left\times 60\$ dB ELECTRICAL AC Input Power \$\text{115/230 Volts AC, 50/60 Hz}\$ INPUT/OUTPUT CONNECTORS
DC Drift < ±1.5 mV (after 30 minutes of operation) Phase Response ±5 degrees Residual Noise 300 μV Signal-to-Noise Ratio -100 dB Gain Linearity 0.15% Common Mode Rejection -60 dB ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
Phase Response ±5 degrees Residual Noise 300 µV Signal-to-Noise Ratio -100 dB Gain Linearity 0.15% Common Mode Rejection -60 dB ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
Residual Noise 300 μV Signal-to-Noise Ratio Gain Linearity 0.15% Common Mode Rejection Rejection AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
Signal-to-Noise Ratio -100 dB Gain Linearity 0.15% Common Mode Rejection -60 dB ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
Gain Linearity 0.15% Common Mode Rejection -60 dB ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
Common Mode Rejection -60 dB ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
Rejection -60 dB ELECTRICAL AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
AC Input Power 115/230 Volts AC, 50/60 Hz INPUT/OUTPUT CONNECTORS
INPUT/OUTPUT CONNECTORS
· ·
Input Connector BNC (female)
,
Output Connectors (2) x 4 mm Banana Jack Binding Posts
AC Power Input Connector IEC C13 Receptacle
ENVIRONMENTAL
Operating Temperature 40° F to 104° F (5° C to 40° C)
Cooling Forced Air
MECHANICAL
Dimensions 5.2" x 19" x 15.7" (H) x (W) x (D) (131 mm x 482 mm x 398 mm)
Cooling Forced Air