

MODEL 6552-1A 100 watt Solid State AUDIO AMPLIFIER

for conducted audio frequency susceptibility testing



APPLICATION

The **Model 6552-1A 100 watt Solid State Audio Amplifier** was specifically designed for use with the **Type 6220-1A Audio Isolation Transformer** in making conducted audio frequency susceptibility tests as required by MIL-STD-461A/462 and other EMI specifications.

DESCRIPTION

The **Model 6552-1A Audio Amplifier** has a wide frequency response and is capable of providing up to 100 watts at 1000 Hz into 2.4 ohms at low distortion levels. Requires approximately 0.6 volt signal input for maximum power output at 1000 Hz. Incorporates feedback circuit for flat response within one dB from 30 Hz to 100 KHz at reduced power levels.

The -3 dB points are 25 Hz and 120 KHz when using the **6220-1A Transformer** loaded with 0.6 ohm. Cleverly designed protective circuit prevents damage due to transients, back EMF, overload or overdrive. Designed for laboratory use with portable case and conventional binding

posts spaced .75" for standard shielded lead and double plug connections.

FEATURES

- Solid state.
- Up to 100 watts output.
- Wide frequency range.
- Low input impedance.
- No output transformer.
- Input and output protective circuits.
- Lightweight and portable.

AVAILABLE ACCESSORIES

Type 6220-1A Audio Isolation Transformer. Use for injecting output of 6552-1A in series with power to test sample as required by test method CS01.

Type 7032-1 Isolation Transformer. Use for removing power ground from the case of scope or voltmeter.

Type 7033-1 Impedance Matching Transformer. Plugs into output terminals to step up the normal 2.4 ohms to 50 ohms impedance. Use when a 50 ohm source impedance is needed.

Type 8415-1 Precision Resistor, .001 ohm \pm .25%, 100 amperes. Use for accurate measurement of injected audio currents to 10 KHz.

SPECIFICATIONS

Input Voltage: 0.6 volt for maximum power output at 1000 Hz.

Input Impedance: 500-600 ohms.

Output Power: 100 watts at 1 KHz into 2.4 ohms.

Output Impedance: 2.4 ohms.

Output Voltage: 16 volts r.m.s. at 1000 Hz into 2.4 ohms (non-inductive).

Output Voltage at Secondary of 6220-1A: 7.7 volts r.m.s. into 0.6 ohm (non-inductive).

Gain Control: Panel mounted input level control.

Terminals: Three-way binding posts spaced at .75" for input and output.

Fuses: Two a.c. line fuses (5 amps), one d.c. power supply fuse (5 amps), one output overload fuse (6 amps).

Power Requirements: 115 volts 60 Hz, 4.0 amperes. (230 volts 50 Hz, 2.0 amperes available.)

Size: 8.12" wide, 9" high, 14.62" deep. (20.64 cm x 22.86 cm x 37.15 cm.)

Model 7824-1. Rack version of Model 6552-1A. All connections out the rear. Dimensions: 8.75" high x 19" wide x 12.75" deep. (22.22 cm x 48.24 cm x 32.38 cm.)



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