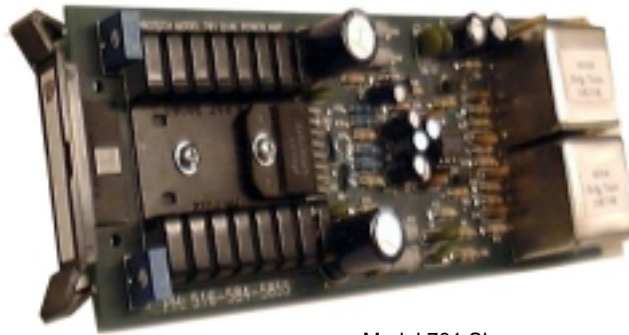


# MODEL 701

# DUAL POWER AMPLIFIER

- **Two Discrete  
4 Watt Channels**
- **Transformer  
Isolated Inputs**
- **Individual Gain  
Adjustments**
- **Built-In Mute  
Per Channel**

INTEGRA III SYSTEM



Model 701 Shown

[www.protechaudio.com](http://www.protechaudio.com)

The Model 701 Dual Channel Power Amplifier card represents state-of-the-art design work. Each card is designed to incorporate features demanded by some of the industry's most notable design/consulting firms. The quality and workmanship of these products will not be surpassed anywhere. These power amplifiers will work well in such applications as: boardroom speakers, meeting room speakers, diorama speakers, talk-thru speakers, or low wattage sound reinforcement speakers. The Model 701 is ideally suited to mix-minus applications.

The Model 701 incorporates two discrete audio power amplifier channels. Each channel will deliver 4 watts RMS into a 4 or 8 ohm load. (For applications requiring more power, see Models 861A, 883A, & 884A.) Each channel has a balanced transformer isolated 10K ohm input. The gain of each channel is adjustable via a trimpot mounted on the front of the printed circuit board assembly. The gain range on each channel is specifically tailored to low wattage applications.

In addition to the gain trimpots, each channel has a built-in mute circuit. By applying ground to the appropriate barrier terminal pin, each channel may be muted.

This feature may be controlled by external hardwire closures, or by the logic closure on the Model 2000 Automixer. As one of the INTEGRA III SYSTEM cards, the Model 701 power amplifier card may be mounted in any of the system enclosures manufactured by PROTECH AUDIO Corporation. The Model 858B Card Frame Assembly will allow use of one Model 701. The card frame assembly is self-powered and requires 3.5" of vertical rack space.

The Model 857B Card Frame Assembly will allow mounting of up to 10 Model 701 cards, in just 3.5" of vertical rack space. The Model 857B uses an external rack mounted power supply, the Model 66708, for power.

The power supply section of each card has auto-resetting electronic fusing devices to prevent damage to the card. The output section is overvoltage and undervoltage protected, as well as thermal runaway protected.

For additional information or applications assistance contact:

**SALES ENGINEERING**

DUAL CHANNEL POWER AMPLIFIER

**PROTECH**<sup>®</sup>

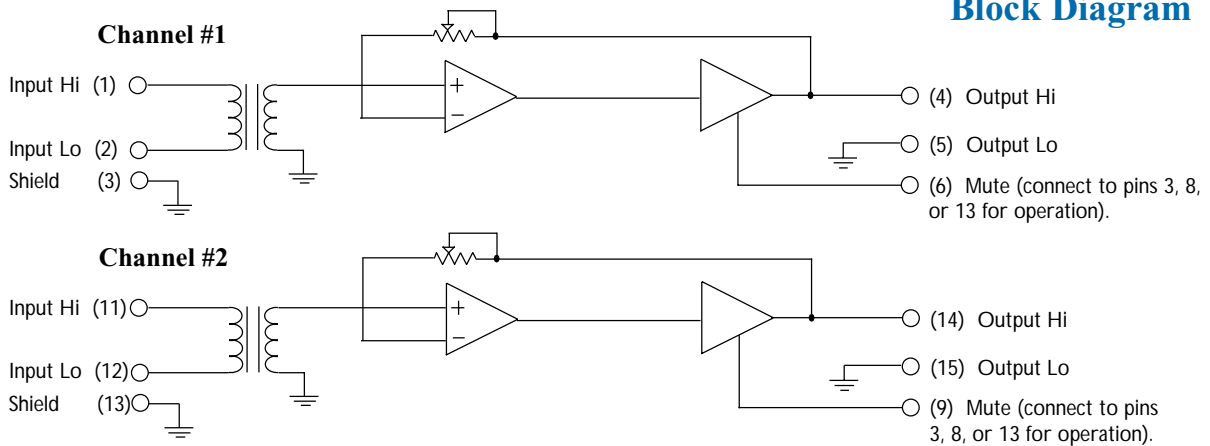
Engineering Data

1/02

# DUAL POWER AMPLIFIER

# MODEL 701

## Block Diagram



PIN NUMBERS FOR MODELS 857B & 858B ONLY.

## Specifications

Gain.....	-10dB To +10dBdB, Adjustable
Maximum Input Level.....	+28dBv
Maximum Output Level.....	5.7 VAC Into 8 Ohm Load, 4.0 VAC Into 4 Ohm Load
Input Impedance.....	10K Ohms Unbalanced
Output Impedance.....	0.1 Ohms
Frequency Response.....	+0, -1dB, 30Hz To 20KHz
Distortion.....	0.075% Maximum @ +18dBv Out, 8 Ohm Load
Noise.....	.95dB Below Full Output
Fusing.....	Electronic Fast-Blow
Power Requirements.....	±15-18VDC @ 660ma for 4 watts out, Both Channels @ RPO Into 8 Ohms. ±15-18VDC @ 880ma for 4 watts out, Both Channels @ RPO Into 4 Ohms.
Channel Separation.....	Better Than 55dB @ 1KHz
Size.....	2.5"H x 8.0"D x 1.1"W
Operatin Temperatutre.....	0 To +70 Degrees C

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## Architect's & Engineer's Specifications

The power amplifier shall be constructed as a plug-in printed circuit board module. It shall be designed to allow up to 10 modules to fit in a rack mount card frame, requiring no more then 3.5 inches of vertical rack space. The power amplifier shall be unpluggable from the front of the card frame, without the need to disconnect wires attached to the rear connector. Replacement of a defective amplifier shall require no more then one minute.

The power amplifier shall have a 10K ohm balanced transformer isolated input.

The input section of the power amplifier module shall not be adversely effected by shorts on the input.

The power amplifier card shall have two channels, each channel capable of delivering 4 watts RMS into a four or eight ohm load. Each channel shall have individually controllable mute circuits which require closure to ground for operation.

The power supply section of the power amplifier module shall incorporate auto-resetting electronic fusing devices to prevent damage to the module.

The Dual Channel Power Amplifier Card shall be PTA Model 701.

## Accessories

Card Frame Package.....MODEL 858B  
Includes card frame, backplane assembly, and power supply card. For use with 1 power amplifier module, or several power amplifier modules using only 1 or 2 watts of power.

Card Frame Package.....MODEL 857B  
Includes card frame, and backplane assembly. For use with multiple power amplifier modules and external power supply Model 66708.

**Protech Audio Corporation**  
PO Box 597, 192 Cedar River Road  
Indian Lake, New York 12842  
Voice 518-648-6410 Fax 518-648-6395  
Web - [www.protechaudio.com](http://www.protechaudio.com)

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