



## Features

- Input to Output Isolation
- 0.4 – 110X Gain Range
- Full Scale Output Suppression
- 5.7 – 1000 Hz Low Pass Filter Options
- Front Panel Input Option

## DESCRIPTION

The Model BA389 Differential Buffer Amplifier offers input-output isolation of 100megOhm, minimum, at 100Vdc. The module also supplies isolated excitation [ +/-7.5Vdc @ +/-0.4mA] for external devices, such as potentiometers. Module gain is jumper selectable from X1 to X100 with gain vernier provided by a twenty turn potentiometer. Full +/-10V output suppression adjustment is provided.

## Specifications

<b>Gain:</b>	Jumper Plug Selected 1, 2, 5, 10, 20, 50, or 100V/V
<b>Gain Vernier:</b>	35% to 110% of selected gain range, 20 turn pot
<b>Output:</b>	+/-10V @ +/-2mA, short circuit proof, not affected by load capacitance
<b>Output Resistance:</b>	10 Ohms Maximum
<b>Requency Response:</b>	0-1,000Hz (-3db) standard; optional bandwidth of 5.7, 12, 27, 57, 120, 270, or 570Hz (-3db)
<b>Noise:</b>	1.0mV rms at maximum gain
<b>Non-Linearity:</b>	0.05% Maximum
<b>Common Mode Rejection Ratio:</b>	120 db is typical, @ 100 Ohm balanced source resistance, 100X gain range, & 60 Hz.

**Suppression** Output suppression, 0 to +/-10Vdc, suppression IN/OUT switchon front panel

**Temperature Effects:** Span 0.005%/°F typical  
Zero 60µ V/°F RTI,  
Maximum

**Power Consumption:** + 15V @ 8mA, -15V @ 3.2mA

### INPUT CHARACTERISTIC

**Diff. Input Resistance:** 600kOhms

**Diff. Input Voltage Range:** +/-0.1V to +/-2.8V, for +/-10V FS output

### ISOLATION CHARACTERISTIC

**Input-Output Isolation:** 100 Meg Ohms min at 100Vdc, F Option has +/-200Vdc rating.

**Isolation Excitation:** +/-7.5Vdc @ +/-0.4mA, in series with 10k Ohm resistors.

**ORDERING INFORMATION** Specify Model Number & Options as shown below:

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INPUT OPTION	
*F	FRONT PANEL
R	REAR EDGE CONN

LOW PASS FILTER	
*1	1KHz
2	570 Hz
3	270 Hz
4	120 Hz
5	57 Hz
6	27 Hz
7	12 Hz
8	5.7 Hz

\* = STANDARD

Specifications subject to change without notice.



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